

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

### **TABLE OF CONTENT**

THIS REQUEST FOR PROPOSAL CONTAINS A SECURITY  
REQUIREMENT

## **PART 1 – GENERAL INFORMATION**

- 1 Introduction
- 2 Summary
- 3 Debriefings
- 4 Third Party Contracts
- 5 Maximum Funding
- 6 Disclaimer
- 7 Communications Notifications

## **PART 2 – BIDDER INSTRUCTIONS**

- 1 Standard Instructions, Clauses and Conditions
- 2 Distribution of the Bid Solicitation Documents
- 3 Submission of Bids
- 4 Release of Classified Reference Values to Bidders
- 5 Delivery of Classified Information in the Bids
- 6 Enquiries - Bid Solicitation
- 7 Applicable Laws
- 8 Improvement of Requirement during Solicitation Period
- 9 Confidentiality
- 10 Indemnification
- 11 Bidders' Conference
- 12 Best value

- Attachment 1 2003 (2013/06/01) Standard Instructions - Goods or Services - Competitive Requirements  
Attachment 2 FTP Site Instructions  
Attachment 3 Release of Classified Reference Values  
Attachment 4 Question Template  
Attachment 5 Performance Guarantee

## **PART 3 – BID PREPARATION INSTRUCTIONS**

- 1 Bid Preparation Instructions
- 2 Bid Content

- Attachment 1 Not Used  
Attachment 2 Industrial and Regional Benefits (IRB) Proposal Preparation Instructions  
Attachment 3 Technical Proposal Preparation Instructions

- Section 1 Introduction  
Section 2 Acquisition Proposal Preparation Instructions  
    Schedule 2-1 Not Used  
Section 3 ISS Proposal Preparation Instructions  
    Schedule 3-2 Life Cycle Costing (LCC) Bidder Data Requirements  
    Schedule 3-3 LCC Input Data  
    Schedule 3-4 Corporate ISS Experience Template

- Attachment 4 Not Used

## **PART 4 – EVALUATION PROCEDURES AND BASIS OF SELECTION**

- 1 Introduction
- 2 Evaluation Process
- 3 Evaluation Methodology
- 4 Selection of Responsive Bid for Award of Acquisition and ISS Contracts
- 5 Modification of the Resulting Contracts Prior to Award

- Attachment 1 Not Used  
Attachment 2 IRB Proposal Evaluation Plan  
Attachment 3 ISS Financial Evaluation  
Attachment 4 Acquisition Scenarios Financial Evaluation  
Attachment 5 Technical Proposal Evaluation Plan

### **Section 1 Introduction**

- Section 2 Acquisition Proposal Evaluation Plan
- Schedule 5-1 APS Survivability Scoring Methodology
  - Schedule 5-2 Test Matrix
    - Appendix 1 – TCP details and test profiles
    - Attachment 1 NATC forms
  - Schedule 5-3 Human Factors Evaluation Requirements
  - Schedule 5-4 Human Factors Evaluation (HFE) Plan

- Section 3 ISS Proposal Evaluation Plan
- Schedule 5-5 Comparative LCC Calculation and Rating Details

### **Section 4 Mandatory Criteria and Technical Score**

## **PART 5 – CERTIFICATIONS**

- 1 Certifications
- 2 Mandatory Certifications
- 3 Mandatory Certifications Required Precedent to Contract Award

## **PART 6 – SECURITY, FINANCIAL AND OTHER REQUIREMENTS**

- 1 Security Requirement
- 2 Financial Capability Requirement
- 3 Controlled Goods Requirement (for Work Done in Canada)
- 4 Insurance Requirements
- 5 Other Requirements of the Solicitation

- Attachment 1 Parental Guarantee

## PART 7 – RESULTING CONTRACT – ACQUISITIONS

- 1 Introduction and Requirement
- 2 Authorities
- 3 Financial
- 4 Delivery, Quality, Inspection and Acceptance
- 5 Government Property
- 6 Environmental
- 7 General Terms and Conditions

Annex A Security Requirement Check List (SRCL)

Annex B Statement of Work

Appendix BA Vehicle Performance Requirements

Schedule BA-1 Vehicle Payload Centre of Gravity

Schedule BA-2 Gladhand Configuration and Nomenclature

Attachment BA-1 Standard Kit and Equipment

Attachment BA-2 Standard Kitting and Equipment (Photos)

Attachment BA-3 Electronic Equipment Requirements

Schedule BA-3-1 Electronic Equipment Installation for Vehicle without APS

Schedule BA-3-2 Electronic Equipment Installation for Vehicle with APS

Schedule BA-3-3 EMI/EMC and RF Safety Testing of MSVS SMP Variants

Schedule BA-3-4 Mounting Provision for Radio Rack

Schedule BA-3-5 Mounting Provision for ECM

Attachment BA-4 Towed Equipment

Attachment BA-5 Gun Tractor Variant Requirements

Attachment BA-6 Armour Protection System (APS) Requirements

Schedule BA-6-1 APS Survivability Testing Methodology

Attachment BA-7 Cargo Variant Requirements

Schedule BA-7-1 Access Ladder and Stair Interface Requirements

Schedule BA7-2 S280/12' General Purpose Shelter Interface Requirements

Attachment BA-8 Load Handling System Variant Requirements

Attachment BA-9 Cargo with Crane Variant Requirements

Attachment BA-10 Winch Requirements

Attachment BA-11 Load Handling System Trailer Requirements

Schedule BA-11-1 LHS Trailer Payload Center of Gravity Envelope

Schedule BA-11-2 Gladhand Configuration and Nomenclature

Attachment BA-12 Trailer Standard Kit and Equipment

Attachment BA-13 Not Used

Attachment BA-14 Mobile Repair Truck Requirements

Appendix BB DRMIS Master Data Guidelines for Army Fleets

Appendix BC Interactive Electronic Technical Manuals Specifications

Attachment BC-1 IETM Functionality Matrix

Appendix BD Mission Profile

Attachment BD-1 Mission Profile

Appendix BE Contract Data (CDRL, DIDs)

Attachment BE-1 Contract Data Requirements List (CDRL)

Attachment BE-2 Data Item Descriptions (DIDs)

Appendix BF Government Supply

Appendix BG Loan Agreement

Appendix BH List of References, Glossary and Abbreviations

Appendix BI CF Vehicle Technician Tool List

Appendix BJ MSVS SMP Schedule Constraints

Annex C Price and Delivery

Annex D 2030, 2013/04/25 General Conditions - Higher Complexity - Goods

Annex E 4006 (2010-08-16) Supplemental General Conditions



Annex F	Industrial and Regional Benefits Requirements (Terms and Conditions, Plans, Transactions, Tables, Certificate of Compliance, Transaction Sheet and Enhanced Priority Technology List)
Annex G	Certificate of Defence Supplies
Annex H	Forms
Annex I	Acceptance Procedures

## **PART 8 – RESULTING CONTRACT – ISS**

1	Introduction and Requirement
2	Authorities
3	Financial
4	Delivery, Quality, Inspection and Acceptance
5	Government Property
6	Environmental
7	General Terms and Conditions

Annex A	Security Requirement Check List (SRCL)
Annex B	Statement of Work

Appendix BA	List of References, Glossary and Abbreviations
Appendix BB	Performance Metrics
Attachment BB-1	Project Management Survey
Attachment BB-2	Not Used
Appendix BC	Not Used
Appendix BD	Not Used
Appendix BE	Electronic Information Environment (EIE)
Appendix BF	Repair and Overhaul (R&O)
Attachment BF-1	R&O Process Flow Diagram
Appendix BG	Major Repair Program (MRP)
Attachment BG-1	MRP Process Flow Diagram
Appendix BH	Mission Profile
Attachment BH-1	Mission Profile
Appendix BI	Contract Data (CDRL, DIDs)
Attachment BI-1	Contract Data Requirements List (CDRL)
Attachment BI-2	Data Item Descriptions (DIDs)
Appendix BJ	Government Supply
Appendix BK	Loan Agreement

Annex C	Price and Delivery
Annex D	Task Authorization Procedures
Annex E	Spare Parts Ordering Procedures
Annex F	Industrial and Regional Benefits Requirements (Terms and Conditions, Plans, Transactions, Tables, Certificate of Compliance, Transaction Sheet and Enhanced Priority Technology List)
Annex G	Certificate of Defence Supplies
Annex H	Forms
Annex I	2035 (2013/04/25) General Conditions – Higher Complexity – Services
Annex J	4006 (2010-08-16) Supplemental General Conditions

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

### **PART 1 – GENERAL INFORMATION**

## **PART 1 - GENERAL INFORMATION**

### **1 Introduction**

- 1.1 This bid solicitation cancels and supersedes previous bid solicitation number W8476-06MSMP/J dated 2011-12-16 with a closing date of July 11<sup>th</sup>, 2012 at 2:00 PM EDT.
- 1.2 This bid solicitation is issued on behalf of the Department of National Defence (DND) for the provision of a fleet of Standard Military Pattern (SMP) Vehicles, Armour Protection System (APS), Trailers, associated equipment and In-Service Support (ISS) as detailed in this Request For Proposal (RFP).
- 1.3 This bid solicitation is divided into eight (8) Parts as detailed below and each part includes the various Attachments and/or Annexes, as applicable, which form part of the RFP and the resulting Contracts, as follows:

Part 1 General Information: provides a general description of the requirement;

Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;

Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;

Part 4 Evaluation Procedures and Basis of Selection: identifies how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;

Part 5 Certifications: identifies the certifications to be provided;

Part 6 Security, Financial and Other Requirements: identifies specific requirements that must be addressed by bidders;

Part 7 Resulting Contract – Acquisition Clauses:

This part identifies the clauses and conditions that will apply to any Resulting SMP Acquisition Contract. The Annexes include the Statement of Work (SOW), Price and Delivery, Industrial and Regional Benefits (IRB) Requirements, Security Requirements and other annexes.

This part is further referred to as “Part 7 - Resulting Contract - Acquisition” in this bid solicitation; and

Part 8 Resulting Contract – ISS Clauses:

This part identifies the clauses and conditions that will apply to any Resulting SMP ISS Contract. The Annexes include the SOW, Price and Delivery, IRB Requirements, Security Requirements and other annexes.

This part is further referred to as “Part 8 - Resulting Contract - ISS” in this bid solicitation.

## 2 Summary

- 2.1 The Department of National Defence (DND) has a requirement to replace its current Medium Logistic Vehicle, Wheeled (MLVW) fleet and associated systems. The project to replace the MLVW fleet is identified as the Medium Support Vehicle System (MSVS) project.
- 2.2 The MSVS project consists of four (4) separate procurement activities, as detailed below:
- Militarized Commercial-Off-The-Shelf (MilCOTS) vehicles (Contracted);
  - Special Equipment Vehicles (SEV) baseline shelters (Contracted);
  - Modification of the SEV shelters (also referred to as "kitting") (Contracted);
  - Standard Military Pattern (SMP) vehicles in five (5) variants: a Cargo variant, a Cargo with Material Handling Crane variant, a Load Handling System (LHS) variant, a Cargo Mobile Repair Truck (MRT) variant and a Gun Tractor Variant. The requirement also includes Trailers, Armour Protection Systems (APS) and various associated equipment; and long term In-Service-Support for the SMP vehicles, APS, Trailers and associated equipment.
- 2.3 This RFP relates exclusively to the SMP portion of the MSVS project and includes other DND requirements and options as outlined in the table below:

<b>Table 1</b>	<b>VEHICLES</b>	<b>TRAILERS</b>	<b>APS</b>
MSVS (SMP)	Up to 1500 *	Up to 300 *	Up to 150 *
Other DND Approved Projects	37		
Additional options	Up to 650*	Up to 240*	Up to 150*
<b>Total</b>	Up to 1537	Up to 300	Up to 150
<b>Total (Including options)</b>	Up to 2187	Up to 540	Up to 300

\*Quantities based on scenarios IAW Part 4, paragraph 3.5.3

The requirement under this RFP includes:

- 2.3.1 The acquisition of the Standard Military Pattern (SMP) fleet of Vehicles, APS, Trailers with associated systems component and equipment as specified in the Acquisition Statement of Work (SOW), (Part 7, Annex B, to the RFP) and associated documents; and
- 2.3.2 The procurement of long term In-Service Support (ISS) for the SMP fleet acquired under this RFP as specified in the ISS SOW (Part 8, Resulting Contract - ISS, Annex B, SOW, to the RFP) and the associated documents, for the life expectancy of the SMP fleet, which is estimated at 20 years.
- 2.4 As part of their responses, bidders are required to provide, no later than 30 calendar days after the bid closing date, Test Articles comprising one (1) Cargo Variant, one (1) LHS Variant with APS, and one (1) LHS Trailer for evaluation purposes, as described in Part 6.
- 2.5 This bid solicitation will result in two (2) Contracts, as follows:
- Acquisition of the MSVS SMP fleet (Part 7 to the RFP).
  - In-Service-Support (ISS) of the MSVS SMP fleet (Part 8 to the RFP).

- 2.6 The resulting Acquisition and ISS Contracts are inter-related and will be awarded to the same legal entity at the same time to allow for the orderly transition of activities from the Acquisition Contract to the ISS Contract.
- 2.7 This procurement is not subject to any Comprehensive Land Claim Agreement (CLCA) nor has it been set-aside for Aboriginal Business under the federal government's Set-Aside Program for Aboriginal Business.
- 2.8 This requirement is subject to the provisions of the Agreement on Internal Trade (AIT).
- 2.9 This procurement is subject to the Controlled Goods Program.
- 2.10 This procurement is subject to the Industrial and Regional Benefits (IRB) Policy. The details of each of the IRB requirements are addressed in Part 3, Attachment 2 - IRB Proposal Preparation Instructions and Part 4, Attachment 2 - IRB Proposal Evaluation Plan, to this RFP. The IRB terms and conditions are contained in Annex F to Part 7 of the RFP (Resulting Contract - Acquisition) and in Annex F to Part 8 of the RFP (Resulting Contract - ISS).
- 2.11 There is a security requirement associated with this requirement. For additional information, consult Part 6 – Security, Financial and Other requirements, and section 1 of the Resulting Contract Clauses (Part 7 and 8). Bidders should consult the “Security Requirements for PWGSC Bid Solicitations – Instructions to Bidders” document (<http://tpsgc-pwgsc.gc.ca/app-acq/lc/pl-eng.html#a31>) on the Departmental Standard Procurement Documents Web site.

### **3. Debriefings**

- 3.1 After contract award, bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be provided in writing, by telephone or in person, at Canada's discretion.

### **4. Third Party Contracts**

- 4.1 Canada has engaged the assistance of the following private sector Contractors in the preparation of the bid solicitation, test program and fairness monitoring;
  - Interis Consulting – Emily Wilcox
  - Promaxis – Nick Ali
  - Prairie Agricultural Machinery Institute (PAMI)
  - Nevada Automotive Test Centre (NATC)
  - Modis Consulting (Bruce Maynard and/or Peter Woods) – Fairness Monitor

As such, Bidders should familiarize themselves with the terms concerning Conflict of Interest and Unfair Advantage (article 18 of the Standard Instructions and Conditions– Goods or Services – Competitive Requirements 2003 (2013-06-01) in Part 2, Attachment 1).

**5. Maximum Funding**

- 5.1 Bidders are advised that there is a maximum funding available for the Acquisition Contract. Details are outlined in Part 4, Article 2.3.1.

**6. Disclaimer**

- 6.1 Bidders are advised that internal approvals, including receiving Treasury Board expenditure approval, in accordance with Canada's approval processes and policies has not been received and that any resulting contract is conditional on receiving such approvals.

**7. Communications Notifications**

- 7.1 As a courtesy, the Government of Canada requests that the successful Bidder notify the Contracting Authority in advance of their intention to make public an announcement related to the award of a contract.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

### **PART 2 – BIDDER INSTRUCTIONS**

## PART 2 - BIDDER INSTRUCTIONS

### 1 Standard Instructions, Clauses and Conditions

- 1.1 All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.
- 1.2 Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contracts in Part 7 and Part 8.
- 1.3 The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated in this document as Part 2, Attachment 1 and form part of the bid solicitation.
  - 1.3.1 At Subsection 5.4 of 2003 (Standard Instructions - Goods or Services - Competitive Requirements), is amended as follows:

**Delete:** sixty (60) days

**Insert:** Five hundred and ninety (590) days

### 2 Distribution of the Bid Solicitation Documents

- 2.1 The bid solicitation documents, including any bid solicitation amendment thereof will be distributed on the Buyandsell.gc.ca with the exception of the Annex B, Appendix BA, Attachment BA-6, Schedule BA-6-1, Annex D, "Classified Reference Values" (a SECRET classified document which forms part of the Armour Protection System (APS) requirements of Part 7 to the RFP (SMP Acquisition Contract).
- 2.2 The "Classified Reference Values" is a classified document that will be delivered in accordance with (IAW) Article 4 below. Unsuccessful Bidder(s) will be required to return to the Contracting Authority upon request or destroy this classified document. For further information on the security requirement associated with this document, please refer to Part 6, Security, Financial and Other Requirements.
- 2.3 For the convenience of bidders only, electronic versions of certain Tables within the RFP will be made available on the File Transfer Protocol (FTP) site. Request for electronic versions of any other document should be sent to the Contracting Authority as per Part 2, Article 6.3. Instructions on how to access the FTP site are attached in Part 2, Attachment 2.
  - 2.3.1 Canada assumes no responsibility for the accuracy of the electronic versions of RFP Tables provided on the FTP site. The use of these electronic Tables is at the Bidder's sole risk.
  - 2.3.2 Unless stated otherwise, the electronic Tables provided on the FTP site are intended but not warranted to be as of RFP issuance date. The electronic Tables will not be maintained or updated by Canada and it is the Bidder's responsibility to perform modifications that may be required by any amendments to the RFP.
  - 2.3.3 Bidders should be careful not to alter any of the formulas and pre-populated data contained in the electronic Tables. If the pricing Tables provided to bidders include any formulae, Canada may re-input the prices provided by bidders into a fresh table, if Canada believes that the formulae may no longer be functioning properly in the version submitted by a bidder.



- 2.4 Canada will issue the DND publications listed in Appendix BH to Part 7 of the RFP (SMP Acquisition Contract) to all Bidders via the FTP site. It is the responsibility of the Bidders to obtain all other publications.

### **3 Submission of Bids**

- 3.1 Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation with the exception of Delivery of Classified Information in the Bids as detailed in Article 5 below.
- 3.2 Not used
- 3.3 Due to the nature of the bid solicitation, bids transmitted by facsimile or electronic mail to PWGSC will not be accepted.
- 3.4 Bidders are reminded that each proposal must stand on its own. Should a Bidder wish to propose more than one vehicle, separate proposals must be received for each proposed vehicle and must address all sections of the solicitation.
- 3.5 To respond to this Request for Proposal, the Bidder must be:
- a) The applicable vehicle Original Equipment Manufacturer (OEM) of any vehicle proposed in the bid;
  - b) A Joint Venture in which the applicable vehicle OEM is a member; or  
a party proposing to act as a potential prime contractor that agrees with one or more companies, one of which is the OEM of any vehicle proposed in the bid, to have the company (ies) act as its subcontractor(s) under the contracts with Canada for the provision of the vehicle as well as its support. In this case the Bidder must provide, on or before contract award, a performance guarantee signed by the OEM in the form attached (see Part 2, Attachment 5). In addition, Bidders are requested to provide, by bid closing, a letter signed by the OEM, confirming that the OEM will provide Canada with signed Performance Guarantees on or before award of the contracts to be awarded as a result of this RFP. If this letter is not provided in the bid, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

### **4 Release of Classified Reference Values to Bidders**

- 4.1 Part 7, Annex B, Appendix BA, Attachment BA-6, Schedule BA-6-1, Annex D, "Classified Reference Values" contains classified information that can only be released on a need-to-know basis. Attachment 3 to Part 2 provides instructions on how to obtain this classified document.
- 4.2 Not used
- 4.3 For instruction for delivery of classified information as part of the bid, refer to Article 5 below.

## **5 Delivery of Classified Information in the Bids**

- 5.1 Canadian Classified Information: Bidders will be required to provide a response, including any and all test results, to the classified (SECRET) requirements of Part 7 Annex B, Appendix BA, Attachment BA-6, Schedule BA-6-1, Annex D, Classified Reference Values, as part of their bids. The response, including any and all test results, to the Classified Reference Values must be classified SECRET.
- 5.2 Foreign Classified Information: Bidders may also have a requirement to transfer foreign classified information as part of their bids.
- 5.3 All classified information must be received by Canada along with the rest of the bid, by the date and time and to the location (PWGSC Bid Receiving Unit) indicated on page 1 of the RFP. In order to minimize the time required to transfer the classified information, the Contracting Authority will accept hand delivery of the Canadian and foreign classified information, including any and all test results.
- 5.4 Should Bidders choose to hand deliver the classified information directly to Canada, Bidders are reminded of their responsibility to obtain a "Courier Certificate" in accordance with the directives from their national security authority. Bidders that have a requirement to transfer classified information should inform the Contracting authority as soon as possible via e-mail so that the delivery progress can be tracked.
- 5.5 Canada will take no responsibility for the timely delivery of any eventual classified information, nor for the specific delivery process selected by the Bidders.
- 5.6 The only direct deliveries that the Contracting Authority (CA) will accept are the ones related to classified information. All unclassified documentation, whether owned by the Bidder or owned/provided by a third party, must be delivered to PWGSC Bid Receiving Unit.

## **6 Enquiries - Bid Solicitation**

- 6.1 To ensure the integrity of the competitive bid process, all enquiries and other communications regarding the bid solicitation MUST be directed only to the Contracting Authority identified in Article 6.3 below. Failure to comply with this request may result in the bid being declared non-responsive.
- 6.2 To ensure consistency and quality of information provided to Bidders, significant enquiries received and the replies to such enquiries will be provided simultaneously to Bidders to which the bid solicitation has been sent, without revealing the source of the enquiries.
- 6.3 All enquiries must be submitted in writing to the Contracting Authority (identified below) no later than 21 calendar days before the bid closing date. Enquiries received after that time may not be answered.

The Contracting Authority:

Yves Lortie  
SMP Contract Manager  
(819) 997-7268  
[NCR.MSVS@tpsgc-pwgsc.gc.ca](mailto:NCR.MSVS@tpsgc-pwgsc.gc.ca)

- 6.4 Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all

Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada. Attached at Part 2, Attachment 4 is a template Bidders may use to submit questions to the Contracting Authority.

## **7 Applicable Laws**

- 7.1 Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario, Canada.
- 7.2 Bidders may, at their discretion, in Part 7 and Part 8, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## **8 Improvement of Requirement during Solicitation Period**

- 8.1 Should Bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder may be given consideration provided they are submitted to the Contracting Authority at least 21 calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions, no submitted changes will be effective unless accepted and the solicitation is amended to reflect the change.

## **9 Confidentiality**

- 9.1 For the evaluation of the Test Articles described in Part 6 of this solicitation, Canada has entered into a contract with Hodges Transportation Inc., operating as the Nevada Automotive Test Center (NATC), hereinafter referred to as NATC.
- 9.2 All NATC personnel involved in the SMP Technical Compliancy Program (TCP) will be required to sign a non-disclosure agreement with Canada.

## **10 Indemnification**

- 10.1 By submitting a bid and providing Test Articles for testing, the Bidder agrees:
- (i) To indemnify and save harmless Canada, its servants, employees, Canadian Forces members and agents, from losses or any damages to a third party caused by the Bidder, its employees, subcontractors, or agents during the bid evaluation period, which concludes when evaluation activities have come to an end and the Test Articles, as detailed in Part 6, have been officially returned to the Bidder;
  - (ii) To release Canada, its servants, employees, Canadian Forces members and agents from any claim for injury to persons or losses of or damages to the Test Articles arising out of acts or omissions of the servants, employees or agents of, respectively, the Nevada Automotive Test Center (NATC), a division of Hodges Transportation, Inc., and Defence Research and Development Canada (DRDC) - Toronto; and
  - (iii) That the Bidders' liability to indemnify or reimburse Canada under this RFP will not affect or prejudice Canada from exercising any other rights under law.

## **11 Bidders' Conference**

- 11.1 A bidders' conference will be held in the National Capital Region on September 17, 2013. The conference will begin at 9 am, at Place Du Portage (PDP), Phase III, Gatineau, Quebec (To be confirmed). The scope of the requirement outlined in the bid solicitation will be reviewed during the

conference and questions will be answered. It is strongly recommended that bidders who intend to submit a bid attend or send a representative.

- 11.2 Bidders are requested to communicate with the Contracting Authority (CA) before the conference to confirm attendance. Bidders should provide, in writing, to the CA, the names of the person(s) who will be attending and a list of issues they wish to table at least 5 working days before the scheduled conference. Although Bidders may register as many representatives as required, Canada reserves the right to limit the number of representatives that will be allowed to attend at any given time due to space limitation.
- 11.3 Once Canada receives confirmation from the Bidder that they will be attending the Bidders' Conference, the Contracting Officer will acknowledge the request and provide the Bidders with a copy of the proposed Agenda as well as other administrative details including details relating to the venue. Each attendee will be required to sign an Attendance Form.
- 11.4 Any clarifications or changes to the bid solicitation resulting from the bidders' conference will be included as an amendment to the bid solicitation. Bidders who do not attend or send a representative will not be given an alternative appointment but they will not be precluded from submitting a bid.
- 11.5 The bidders' conference will be conducted in the English language. Supporting documentation will be available in both English and French.
- 11.6 Bidders are responsible for the arrangements and costs associated with their own travel to/from the bidders' conference, including visa requirements (if applicable), as well as for any meals and accommodations.

## 12 Best Value

In line with the Federal government's objective of creating economic opportunities for Canadians while achieving best value for the taxpayer, the government has recently received two reports providing recommendations on how to achieve best value for procurements in the aerospace and defence sectors (The Aerospace Review Report, Volume 1: Beyond the Horizon: Canada's Interests and Future in Aerospace - David Emerson, November 2012 and Canada First: Leveraging Defence Procurement Through Key Industrial Capabilities Report of the Special Adviser to the Minister of Public Works and Government Services - Tom Jenkins, February 2013).

In Budget 2013, the government outlined the following commitment:

*"Building on the success of the National Shipbuilding Procurement Strategy, the Government will better ensure that purchases of military equipment create economic opportunities for Canadians by developing key domestic industrial capabilities to help guide procurement, by promoting export opportunities, and by reforming the current procurement process to improve outcomes."(page 106)*

As a result of the above, Bidders are requested to submit with their proposal a letter describing how their proposal would create economic opportunities for Canadians. While this information will not form part of the evaluation for this procurement or be rated, it will assist the Federal government in gaining a better understanding of how Federal procurement can potentially be used to maximize job creation, support Canadian manufacturing capabilities and innovation, and bolster economic growth in Canada

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06MSMP/L

Part 2 – Bidder Instructions

Attachment 1 – 2003 (2013/06/01) Standard Instructions –  
Goods or Services – Competitive Requirements

This Annex includes the Standard Instructions – Goods or Services – Competitive Requirements 2003 (2013-06-01) – that forms part of this Contract.

This Annex must only be read in conjunction with Part 2, Article 1.3.

## **2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements**

### **Public Works and Government Services Canada**

- 01 Code of Conduct and Certifications - Bid
- 02 Procurement Business Number
- 03 Standard Instructions, Clauses and Conditions
- 04 Definition of Bidder
- 05 Submission of Bids
- 06 Late Bids
- 07 Delayed Bids
- 08 Transmission by Facsimile
- 09 Customs Clearance
- 10 Legal Capacity
- 11 Rights of Canada
- 12 Rejection of Bid
- 13 Communications - Solicitation Period
- 14 Price Justification
- 15 Bid Costs
- 16 Conduct of Evaluation
- 17 Joint Venture
- 18 Conflict of Interest - Unfair Advantage
- 19 Entire Requirement
- 20 Further Information

### **01 (2012-11-09 Revised) Code of Conduct and Certifications - Bid**

1. Bidders must comply with the [Code of Conduct for Procurement](#). In addition to the [Code of Conduct for Procurement](#), bidders must a) respond to bid solicitations in an honest, fair and comprehensive manner, b) accurately reflect their capacity to satisfy the requirements stipulated in the bid solicitations and resulting contracts, c) submit bids and enter into contracts only if they will fulfill all obligations of the Contract.
2. Bidders further understand that, to ensure fairness, openness and transparency in the procurement process, the commission of certain acts or offences will render them ineligible to be awarded a contract. Canada will declare non-responsive any bid in respect of which the information herein requested is missing or inaccurate, or in respect

of which the information contained in the certifications specified hereinafter is found to be untrue, in any respect, by Canada. If it is determined, after contract award, that the Bidder made a false declaration, Canada will have the right to terminate the Contract for default. The Bidder will be required to diligently maintain up-to-date the information herein requested. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

3. For the purpose of this section, everyone, including but not limited to organizations, bodies corporate, societies, companies, firms, partnerships, associations of persons, parent companies, and subsidiaries, whether partly or wholly-owned, as well as individuals, and directors, are Bidder's affiliates if:
  - a. directly or indirectly either one controls or has the power to control the other, or
  - b. a third party has the power to control both.

Indicia of control, include, but are not limited to, interlocking management or ownership, identity of interests among family members, shared facilities and equipment, common use of employees, or a business entity created following the acts or convictions specified in this section which has the same or similar management, ownership, or principal employees, as the case may be.

4. Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide with their bid or promptly thereafter the name of the owner. Bidders bidding as societies, firms, or partnerships do not need to provide lists of names. If the required names have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms ([Consent to a Criminal Record Verification form - PWGSC-TPSGC 229](#)) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

5. The Bidder must diligently maintain an up-to-date list of names by informing Canada in writing of any change occurring during the validity period of the bid as well as during the period of any contract arising from this bid solicitation. The Bidder must also, when so requested, provide Canada with the corresponding Consent Forms.
6. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties.
7. By submitting a bid, the Bidder certifies that neither the Bidder nor any of the Bidder's affiliates have directly or indirectly, paid or agreed to pay, and will not, directly or

indirectly, pay a contingency fee to any individual for the solicitation, negotiation or obtaining of the Contract if the payment of the fee would require the individual to file a return under section 5 of the [Lobbying Act](#).

8. By submitting a bid, the Bidder certifies that no one convicted under any of the provisions under a) or b) are to receive any benefit under a contract arising from this bid solicitation. In addition, the Bidder certifies that except for those offences where a criminal pardon or a record suspension has been obtained or capacities restored by the Governor in Council, neither the Bidder nor any of the Bidder's affiliates has ever been convicted of an offence under any of the following provisions:
  - a. paragraph 80(1)(d) (*False entry, certificate or return*), subsection 80(2) (*Fraud against Her Majesty*) or section 154.01 (*Fraud against Her Majesty*) of the [Financial Administration Act](#), or
  - b. section 121 (*Frauds on the government and Contractor subscribing to election fund*), section 124 (*Selling or Purchasing Office*), section 380 (*Fraud*) for fraud committed against Her Majesty or section 418 (*Selling defective stores to Her Majesty*) of the [Criminal Code](#) of Canada, or
  - c. section 462.31 (*Laundering proceeds of crime*) or sections 467.11 to 467.13 (*Participation in activities of criminal organization*) of the [Criminal Code](#) of Canada, or
  - d. section 45 (*Conspiracies, agreements or arrangements between competitors*), 46 (*Foreign directives*) 47 (*Bid rigging*), 49 (*Agreements or arrangements of federal financial institutions*), 52 (*False or misleading representation*), 53 (*Deceptive notice of winning a prize*) under the [Competition Act](#), or
  - e. section 239 (*False or deceptive statements*) of the [Income Tax Act](#), or
  - f. section 327 (*False or deceptive statements*) of the [Excise Tax Act](#), or
  - g. section 3 (*Bribing a foreign public official*) of the [Corruption of Foreign Public Officials Act](#), or
  - h. section 5 (*Trafficking in substance*), section 6 (*Importing and exporting*), or section 7 (*Production of substance*) of the [Controlled Drugs and Substance Act](#).
9. In circumstances where a criminal pardon or a record suspension has been obtained, or capacities have been restored by the Governor in Council, the Bidder must provide with its bid or promptly thereafter a copy of confirming documentation from an official source. If such documentation has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive.
10. Bidders understand that Canada may contract outside of the present solicitation process with a supplier who has been convicted of an offense enumerated under c) to h) of the paragraph hereinabove, or who is affiliated with someone who has been convicted of an offense enumerated under c) to h) of the paragraph hereinabove, when required to do so by law or legal proceedings, or when Canada considers it necessary to the public interest for reasons which include, but are not limited to:



- Only one person is capable of performing the contract;
- Emergency;
- National security;
- Health and safety;
- Economic harm;

Canada reserves the right to impose additional conditions or measures to ensure the integrity of the procurement process.

## **02 (2012-03-02) Procurement Business Number**

Suppliers are required to have a Procurement Business Number (PBN) before contract award. Suppliers may register for a PBN online at Supplier Registration Information. For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.

## **03 (2007-05-25) Standard Instructions, Clauses and Conditions**

Pursuant to the Department of Public Works and Government Services Act (S.C. 1996, c.16), the instructions, clauses and conditions identified in the bid solicitation and resulting contract by number, date, and title are incorporated by reference into and form part of the bid solicitation and resulting contract as though expressly set out in the bid solicitation and resulting contract.

## **04 (2007-11-30) Definition of Bidder**

"Bidder" means the person or entity (or, in the case of a joint venture, the persons or entities) submitting a bid to perform a contract for goods, services or both. It does not include the parent, subsidiaries or other affiliates of the Bidder, or its subcontractors.

## **05 (2013-06-01) Submission of Bids**

1. Canada requires that each bid, at closing date and time or upon request from the Contracting Authority, be signed by the Bidder or by an authorized representative of the Bidder. If a bid is submitted by a joint venture, it must be in accordance with section 17.
2. It is the Bidder's responsibility to:
  - a. obtain clarification of the requirements contained in the bid solicitation, if necessary, before submitting a bid;
  - b. prepare its bid in accordance with the instructions contained in the bid solicitation;
  - c. submit by closing date and time a complete bid;
  - d. send its bid only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit specified on page 1 of the bid solicitation or to the address specified in the bid solicitation. The facsimile number and related instructions for bids transmitted by facsimile are provided in section 08;
  - e. ensure that the Bidder's name, return address, the bid solicitation number, and bid solicitation closing date and time are clearly visible on the envelope or the parcel(s) containing the bid; and,
  - f. provide a comprehensible and sufficiently detailed bid, including all requested pricing details, that will permit a complete evaluation in accordance with the criteria set out in the bid solicitation.
3. Canada will make available Notices of Proposed Procurement (NPP), bid solicitations and related documents for download through the Government Electronic Tendering Service (GETS). Canada is not responsible and will not assume any liabilities

whatsoever for the information found on websites of third parties. In the event an NPP, bid solicitation or related documentation would be amended, Canada will not be sending notifications. Canada will post all amendments using GETS. It is the sole responsibility of the Bidder to regularly consult GETS for the most up-to-date information. Canada will not be liable for any oversight on the Bidder's part nor for notification services offered by a third party.

4. Bids will remain open for acceptance for a period of not less than sixty (60) days from the closing date of the bid solicitation, unless specified otherwise in the bid solicitation. Canada reserves the right to seek an extension of the bid validity period from all responsive bidders in writing, within a minimum of three (3) days before the end of the bid validity period. If the extension is accepted by all responsive bidders, Canada will continue with the evaluation of the bids. If the extension is not accepted by all responsive bidders, Canada will, at its sole discretion, either continue with the evaluation of the bids of those who have accepted the extension or cancel the solicitation.
5. Bid documents and supporting information may be submitted in either English or French.
6. Bids received on or before the stipulated bid solicitation closing date and time will become the property of Canada and will not be returned. All bids will be treated as confidential, subject to the provisions of the [Access to Information Act](#) (R.S. 1985, c. A-1) and the [Privacy Act](#) (R.S., 1985, c. P-21).
7. Unless specified otherwise in the bid solicitation, Canada will evaluate only the documentation provided with a bidder's bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.
8. A bid cannot be assigned or transferred in whole or in part.

#### **06 (2007-05-25) Late Bids**

PWGSC will return bids delivered after the stipulated bid solicitation closing date and time, unless they qualify as a delayed bid as described below.

#### **07 (2012-03-02) Delayed Bids**

1. A bid delivered to the specified bid receiving unit after the closing date and time but before the contract award date may be considered, provided the bidder can prove the delay is due solely to a delay in delivery that can be attributed to the Canada Post Corporation (CPC) (or national equivalent of a foreign country). Purolator Inc. is not considered to be part of CPC for the purposes of delayed bids. The only pieces of evidence relating to a delay in the CPC system that are acceptable to PWGSC are:
  - a. a CPC cancellation date stamp; or
  - b. a CPC Priority Courier bill of lading; or
  - c. a CPC Xpresspost label

that clearly indicates that the bid was mailed before the bid closing date.

2. Misrouting, traffic volume, weather disturbances, labour disputes or any other causes for the late delivery of bids are not acceptable reasons for the bid to be accepted by PWGSC.
3. Postage meter imprints, whether imprinted by the Bidder, the CPC or the postal authority outside Canada, are not acceptable as proof of timely mailing.

#### **08 (2012-03-02) Transmission by Facsimile**

1. Unless specified otherwise in the bid solicitation, bids may be submitted by facsimile. The only acceptable facsimile number for responses to bid solicitations issued by PWGSC headquarters is 819-997-9776 or, if applicable, the facsimile number identified in the bid solicitation. The facsimile number for responses to bid solicitations issued by PWGSC regional offices is identified in the bid solicitation.
2. For bids transmitted by facsimile, Canada will not be responsible for any failure attributable to the transmission or receipt of the faxed bid including, but not limited to, the following:
  - a. receipt of garbled or incomplete bid;
  - b. availability or condition of the receiving facsimile equipment;
  - c. incompatibility between the sending and receiving equipment;
  - d. delay in transmission or receipt of the bid;
  - e. failure of the Bidder to properly identify the bid;
  - f. illegibility of the bid; or
  - g. security of bid data.
3. A bid transmitted by facsimile constitutes the formal bid of the Bidder and must be submitted in accordance with section 05.

#### **09 (2010-10-07) Customs Clearance**

It is the responsibility of the Bidder to allow sufficient time to obtain customs clearance, where required, before the bid closing date and time. Delays related to the obtaining of customs clearance cannot be construed as "undue delay in the mail" and will not be accepted as a delayed bid under section 07.

#### **10 (2007-05-25) Legal Capacity**

The Bidder must have the legal capacity to contract. If the Bidder is a sole proprietorship, a partnership or a corporate body, the Bidder must provide, if requested by the Contracting Authority, a statement and any requested supporting documentation indicating the laws under which it is registered or incorporated together with the registered or corporate name and place of business. This also applies to bidders submitting a bid as a joint venture.

## **11 (2007-11-30) Rights of Canada**

Canada reserves the right to:

- a. reject any or all bids received in response to the bid solicitation;
- b. enter into negotiations with bidders on any or all aspects of their bids;
- c. accept any bid in whole or in part without negotiations;
- d. cancel the bid solicitation at any time;
- e. reissue the bid solicitation;
- f. if no responsive bids are received and the requirement is not substantially modified, reissue the bid solicitation by inviting only the bidders who bid to resubmit bids within a period designated by Canada; and,
- g. negotiate with the sole responsive Bidder to ensure best value to Canada.

## **12 (2012-03-02) Rejection of Bid**

1. Canada may reject a bid where any of the following circumstances is present:
  - a. the Bidder is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which renders the Bidder ineligible to bid on the requirement;
  - b. an employee, or subcontractor included as part of the bid, is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which would render that employee or subcontractor ineligible to bid on the requirement, or the portion of the requirement the employee or subcontractor is to perform;
  - c. the Bidder is bankrupt or where, for whatever reason, its activities are rendered inoperable for an extended period;
  - d. evidence, satisfactory to Canada, of fraud, bribery, fraudulent misrepresentation or failure to comply with any law protecting individuals against any manner of discrimination, has been received with respect to the Bidder, any of its employees or any subcontractor included as part of the bid;
  - e. evidence satisfactory to Canada that based on past conduct or behavior, the Bidder, a subcontractor or a person who is to perform the Work is unsuitable or has conducted himself/herself improperly;
  - f. with respect to current or prior transactions with the Government of Canada:
    - i. Canada has exercised its contractual remedies of suspension or termination for default with respect to a contract with the Bidder, any of its employees or any subcontractor included as part of the bid;

- ii. Canada determines that the Bidder's performance on other contracts, including the efficiency and workmanship as well as the extent to which the Bidder performed the Work in accordance with contractual clauses and conditions, is sufficiently poor to jeopardize the successful completion of the requirement being bid on.
2. Where Canada intends to reject a bid pursuant to a provision of subsection 1. (f), the Contracting Authority will so inform the Bidder and provide the Bidder ten (10) days within which to make representations, before making a final decision on the bid rejection.
3. Canada reserves the right to apply additional scrutiny, in particular, when multiple bids are received in response to a bid solicitation from a single bidder or a joint venture. Canada reserves the right to:
  - a. reject any or all of the bids submitted by a single bidder or joint venture if their inclusion in the evaluation has the effect of prejudicing the integrity and fairness of the process, or;
  - b. reject any or all of the bids submitted by a single bidder or joint venture if their inclusion in the procurement process would distort the solicitation evaluation, and would cause a result that would not reasonably have been expected under prevailing market conditions and/or would not provide good value to Canada.

### **13 (2008-12-12) Communications - Solicitation Period**

To ensure the integrity of the competitive bid process, enquiries and other communications regarding the bid solicitation must be directed only to the Contracting Authority identified in the bid solicitation. Failure to comply with this requirement may result in the bid being declared non-responsive.

To ensure consistency and quality of information provided to bidders, significant enquiries received and the replies to such enquiries will be provided simultaneously to bidders to which the bid solicitation has been sent, without revealing the sources of the enquiries.

### **14 (2007-11-30) Price Justification**

In the event that the Bidder's bid is the sole responsive bid received, the Bidder must provide, on Canada's request, one or more of the following price justification:

- a. a current published price list indicating the percentage discount available to Canada; or
- b. a copy of paid invoices for the like quality and quantity of the goods, services or both sold to other customers; or
- c. a price breakdown showing the cost of direct labour, direct materials, purchased items, engineering and plant overheads, general and administrative overhead, transportation, etc., and profit; or
- d. price or rate certifications; or
- e. any other supporting documentation as requested by Canada.

### **15 (2007-05-25) Bid Costs**

No payment will be made for costs incurred in the preparation and submission of a bid in response to the bid solicitation. Costs associated with preparing and submitting a bid, as well as any costs incurred by the Bidder associated with the evaluation of the bid, are the sole responsibility of the Bidder.

### **16 (2008-05-12) Conduct of Evaluation**

1. In conducting its evaluation of the bids, Canada may, but will have no obligation to, do the following:
  - a. seek clarification or verification from bidders regarding any or all information provided by them with respect to the bid solicitation;
  - b. contact any or all references supplied by bidders to verify and validate any information submitted by them;
  - c. request, before award of any contract, specific information with respect to bidders' legal status;
  - d. conduct a survey of bidders' facilities and/or examine their technical, managerial, and financial capabilities to determine if they are adequate to meet the requirements of the bid solicitation;
  - e. correct any error in the extended pricing of bids by using unit pricing and any error in quantities in bids to reflect the quantities stated in the bid solicitation; in the case of error in the extension of prices, the unit price will govern.
  - f. verify any information provided by bidders through independent research, use of any government resources or by contacting third parties;
  - g. interview, at the sole costs of bidders, any bidder and/or any or all of the resources proposed by bidders to fulfill the requirement of the bid solicitation.
2. Bidders will have the number of days specified in the request by the Contracting Authority to comply with any request related to any of the above items. Failure to comply with the request may result in the bid being declared non-responsive.

### **17 (2010-01-11) Joint Venture**

1. A joint venture is an association of two or more parties who combine their money, property, knowledge, expertise or other resources in a single joint business enterprise, sometimes referred as a consortium, to bid together on a requirement. Bidders who bid as a joint venture must indicate clearly that it is a joint venture and provide the following information:
  - a. the name of each member of the joint venture;
  - b. the Procurement Business Number of each member of the joint venture;

- c. the name of the representative of the joint venture, i.e. the member chosen by the other members to act on their behalf, if applicable;
  - d. the name of the joint venture, if applicable.
- 2. If the information is not clearly provided in the bid, the Bidder must provide the information on request from the Contracting Authority.
- 3. The bid and any resulting contract must be signed by all the members of the joint venture unless one member has been appointed to act on behalf of all members of the joint venture. The Contracting Authority may, at any time, require each member of the joint venture to confirm that the representative has been appointed with full authority to act as its representative for the purposes of the bid solicitation and any resulting contract. If a contract is awarded to a joint venture, all members of the joint venture will be jointly and severally or solidarily liable for the performance of any resulting contract.

#### **18 (2012-03-02) Conflict of Interest - Unfair Advantage**

- 1. In order to protect the integrity of the procurement process, bidders are advised that Canada may reject a bid in the following circumstances:
  - a. if the Bidder, any of its subcontractors, any of their respective employees or former employees was involved in any manner in the preparation of the bid solicitation or in any situation of conflict of interest or appearance of conflict of interest;
  - b. if the Bidder, any of its subcontractors, any of their respective employees or former employees had access to information related to the bid solicitation that was not available to other bidders and that would, in Canada's opinion, give or appear to give the Bidder an unfair advantage.
- 2. The experience acquired by a bidder who is providing or has provided the goods and services described in the bid solicitation (or similar goods or services) will not, in itself, be considered by Canada as conferring an unfair advantage or creating a conflict of interest. This bidder remains however subject to the criteria established above.
- 3. Where Canada intends to reject a bid under this section, the Contracting Authority will inform the Bidder and provide the Bidder an opportunity to make representations before making a final decision. Bidders who are in doubt about a particular situation should contact the Contracting Authority before bid closing. By submitting a bid, the Bidder represents that it does not consider itself to be in conflict of interest nor to have an unfair advantage. The Bidder acknowledges that it is within Canada's sole discretion to determine whether a conflict of interest, unfair advantage or an appearance of conflict of interest or unfair advantage exists.

#### **19 (2007-11-30) Entire Requirement**

The bid solicitation documents contain all the requirements relating to the bid solicitation. Any other information or documentation provided to or obtained by a bidder from any source are not relevant. Bidders should not assume that practices used under previous contracts will continue, unless they are described in the bid solicitation. Bidders should also not assume that

their existing capabilities meet the requirements of the bid solicitation simply because they have met previous requirements.

**20 (2007-11-30) Further Information**

1. For further information, bidders may contact the Contracting Authority identified in the bid solicitation.
2. For bid solicitations issued out of PWGSC headquarters, enquiries concerning receipt of bids may be addressed to the Bid Receiving Unit, Procurement Operational Support Division, telephone 819-956-3370. For bid solicitations issued out of PWGSC regional offices, enquiries concerning receipt of bids may be addressed to the Contracting Authority identified in the bid solicitation.



**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

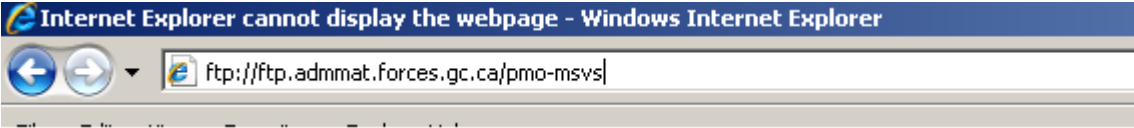
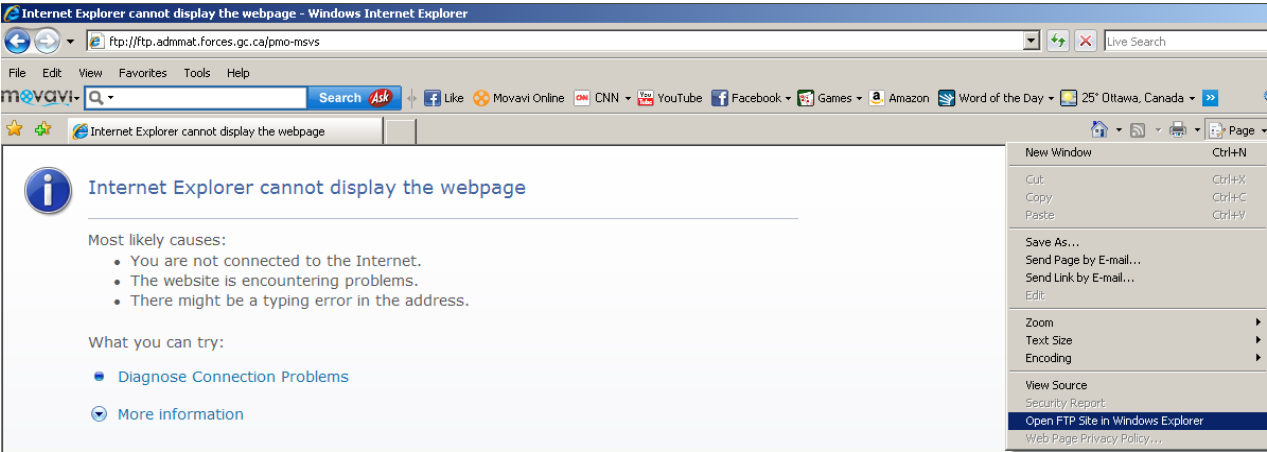
Request For Proposal  
W8476-06MSMP/L

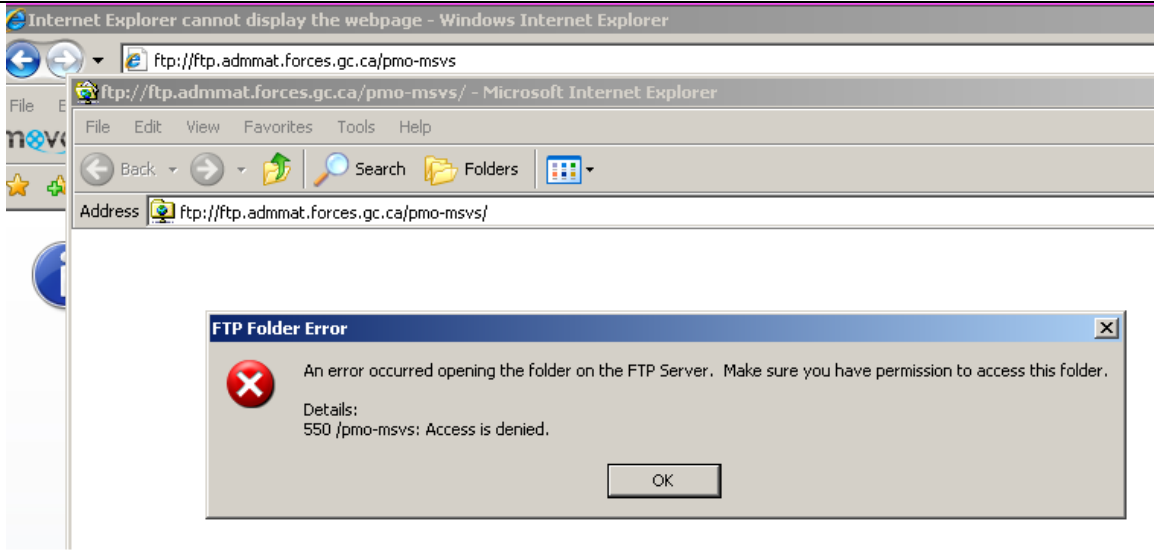
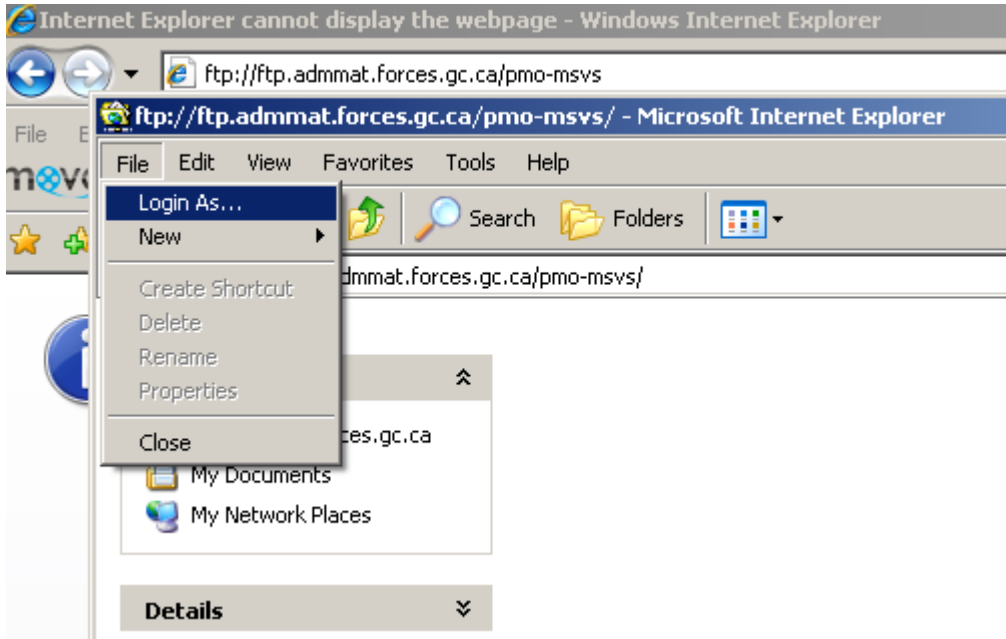
Part 2 – Bidder Instructions

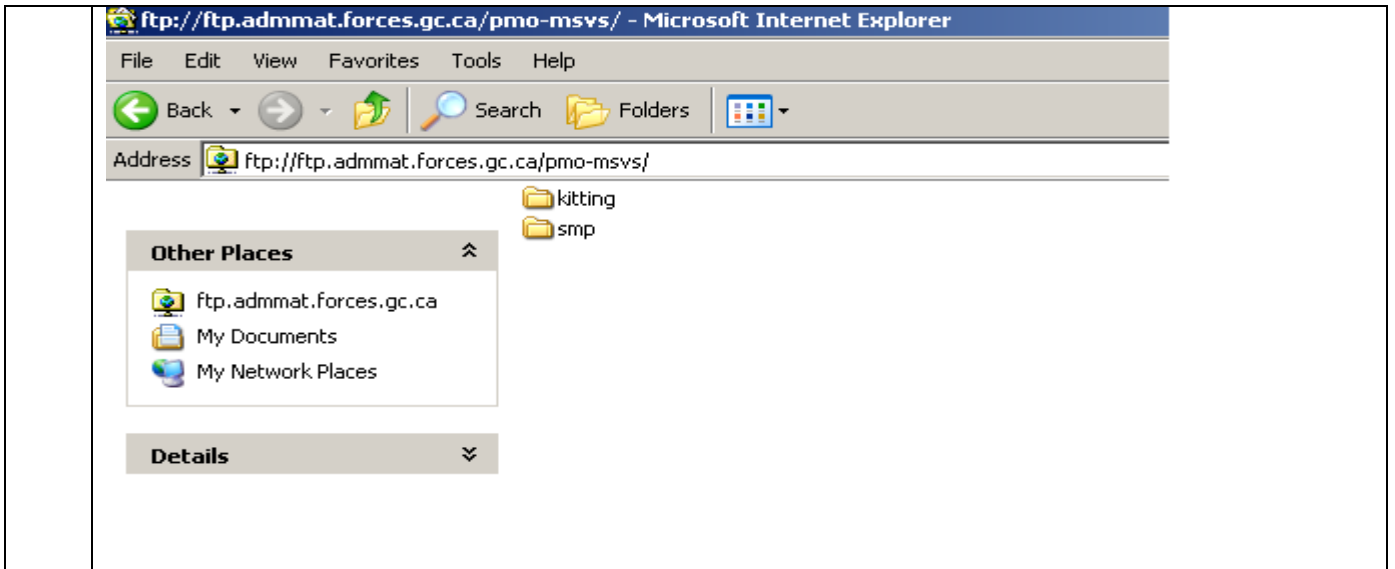
Attachment 2 – FTP Site Instructions

## MSVS FTP Site Access Instructions

Selected MSVS RFP documentation will be available for download at the MSVS Project FTP website at <ftp://ftp.admmat.forces.gc.ca/pmo-msvs> using the steps mentioned below:

Step	Action
1	Using Internet Explorer (IE), access ftp URL: <a href="ftp://ftp.admmat.forces.gc.ca/pmo-msvs">ftp://ftp.admmat.forces.gc.ca/pmo-msvs</a> 
2	Click <b>Page</b> (See right hand tool bars)
3	Click <b>Open FTP Site</b> in Windows Internet Explorer 
3	A separate window will appear with FTP Folder Error message, click <b>OK</b>

	
4	<p>Under <b>File</b> menu, click <b>Login as</b>.</p> 
5	<p>A dialog box prompting "Log on As" will appear. Enter Username as <b>smpftp</b>. and click <b>Log On</b></p>
6	<p>Double click on "smp" folder. Navigate through the folders within.</p>



# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request for Proposal  
W8476-06MSMP/L

### **PART 2 – BIDDER INSTRUCTIONS**

Attachment 3 – Release of Classified Reference Values

## **1 Instruction for the Release of Classified Reference Values to Bidders**

- 1.1 To obtain the Classified Reference Values, Bidders must hold the appropriate security clearance IAW Part 6 Article 1 Security Requirement.
- 1.2 Bidders must provide the following information to the Contracting Authority for verification of their security clearance:
  - Courier's full name;
  - Date of birth;
  - Place of birth;
  - Citizenship;
  - Passport number;
  - Employer's name; and
  - Employer's full address.
- 1.3 Please note that the security clearance verification process may be lengthy. Upon successful verification of security clearance, the Bidders will be able to pick up the Classified Information from the Contracting Authority. Failure to provide any of the above information may result in the delay or failure to release classified reference values to the bidder.
- 1.4 Bidders are reminded of their responsibility to obtain a "Courier Certificate" in accordance with the directives from their national security authority should they require to transport the Classified Information outside of Canada.

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 2 – Bidder Instructions

Attachment 4 – Question Template

**Bidder name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

RFP Reference				Question
Question #	Part (1 to 8)	Article	Annex / Attachment	



# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 2 – Bidder Instructions

Attachment 5 – Performance Guarantee

THIS AGREEMENT made in duplicate as of the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

B E T W E E N; **HER MAJESTY THE QUEEN** in right of Canada (hereinafter called "Her Majesty") as represented by the Minister of Public Works and Government Services (hereinafter called the "Minister")

OF THE FIRST PART

A N D; \_\_\_\_\_, a body corporate incorporated pursuant to the laws of \_\_\_\_\_ with its principal place of business at \_\_\_\_\_ (hereinafter the "Guarantor")

OF THE SECOND PART

WITNESSETH THAT:

WHEREAS the Minister and (full legal name of contractor) (the "Contractor") propose to enter into Contract No. \_\_\_\_\_ for \_\_\_\_\_ on the terms and conditions and for the purposes all as specified or described in that Contract (the "Contract");

WHEREAS the Guarantor has agreed to guarantee to Her Majesty the Contractor's performance of the Contract unconditionally and irrevocably on the terms and conditions hereinafter set out;

NOW THEREFORE, in consideration of the premises, mutual covenants, promises, conditions and agreements hereinafter set out, the Parties hereby covenant, promise and agree:

1. The provisions of this Performance Guarantee, and the rights, status and obligations of the Parties shall be interpreted and determined in accordance with the laws in force in the Province of Ontario, Canada.
2. It is further understood and agreed that the receipt by the Contractor or the Guarantor of any monies paid by Her Majesty to any one or more of them as the case may be, under or in respect of the Contract shall be in complete discharge and release to Her Majesty for and in respect of all monies so paid irrespective of the date when or the party to whom but for this Performance Guarantee such monies were or might, or would have been payable.
3. (a) The Guarantor hereby unconditionally and irrevocably guarantees to Her Majesty the due performance of all of the obligations, terms and conditions that are set out to be performed by the Contractor in the Contract and including any extensions thereof.

(b) It is hereby agreed by the Guarantor with respect to its guarantee in subparagraph (a) above that:

- (i) no modification, variation or amendment of the Contract, grant of any indulgence, release, postponement or extension of time, waiver of any term or condition of the Contract, taking or release of any securities or other guarantees for performance and other dealings, as Her Majesty may see fit, shall affect, lessen or impair in any way the liability of the Guarantor;
- (ii) no waiver of any of Her Majesty's options, powers or rights hereunder and no modification of this Performance Guarantee shall be effective unless the same shall be in writing, duly signed on behalf of the Minister by the duly authorized representatives of the Minister and each such waiver, if any, shall apply only with respect to the specific instance involved, and shall not in any way impair the

options, powers or rights of Her Majesty or the obligations of the Guarantor hereunder in any other respect or at any other time.

- (iii) no delay on the part of Her Majesty in exercising any of its options, powers or rights hereunder or any partial or single exercise thereof, shall constitute a waiver thereof.
- (iv) Her Majesty shall not be required to give to the Guarantor any notice of anything done pursuant to the Contract nor of any amendment to the Contract and the absence of such notice shall in no respect vitiate or impair this Performance Guarantee and the giving of such notice by Her Majesty out of courtesy, abundance of caution or otherwise shall not in any way detract from or impair the rights of Her Majesty under this Performance Guarantee;
- (v) Her Majesty shall not be obliged to resort to or exhaust any recourse which it may have before being entitled to claim against the Guarantor;
- (vi) unless the prior written permission of Her Majesty to the contrary is obtained, nothing whatsoever, except the performance in full of all of the obligations of the Contractor under Contract shall discharge the Guarantor;
- (vii) if there is any failure by the Contractor to perform or fulfil any of its obligations under the Contract, for any reason, however arising, then forthwith, upon the date of receipt by the Guarantor of a written notice from the Minister citing the default, the Guarantor shall undertake or cause to be undertaken the performance of all outstanding obligations, as primary obligor and not as surety; and
- (viii) whenever any determination of any dispute is made, pursuant to the provisions of the Contract, or any judgment or finding of a court of competent jurisdiction is issued or made, which is binding upon the Contractor in respect of the Contract, such determination shall be binding upon the Guarantor.

(c) Demands and notices under this Performance Guarantee may be made by Her Majesty from time to time.

4. Any notice required or permitted to be given hereunder shall be in writing and may be given by delivering the same, by hand, facsimile, or by electronic mail, or by mailing the same by registered mail with return receipt postage prepaid addressed, in the case of Her Majesty, to:

Attention:

Telephone:

Facsimile:

E-mail:

In the case of the Guarantor:

Full Address:

Contact Name:

Contact Telephone:

Contact Facsimile:

Contact e-mail:

or to such other address as any of the parties as to itself may from time to time designate in writing to the other. Any notice aforesaid if delivered shall be deemed to have been given on the date on which it was delivered, if sent by facsimile, or electronic mail, on the date of transmittal with acknowledgement of receipt, or if mailed by registered mail with return receipt shall be deemed to have been given on the day on which it was received as evidenced by the receipt.

5. The Guarantor hereby acknowledges that Her Majesty has made no representation or warranty to it in connection with the execution of this Performance Guarantee, except as expressly stated herein.
6. This Performance Guarantee may not be assigned.
7. This Performance Guarantee shall be in force and effect from the date of award of the Contract to the Contractor until all obligations of the Contractor under any such Contract have been fulfilled to the satisfaction of Her Majesty.
8. This Performance Guarantee is in addition to and not in substitution for any security of any kind or any other guarantee that may at any time have been or may be acquired by Her Majesty and any other rights or remedies that Her Majesty might have.
9. This Performance Guarantee shall not be impaired by any loss of any security now or hereafter held by or on behalf of Her Majesty whether occasioned through its fault, negligence or otherwise (including without limitation any loss occasioned by the failure to register, perfect, maintain the registration or perfection of, re-register, re-perfect or renew any such security.)

IN WITNESS WHEREOF, this Performance Guarantee has been duly executed by Her Majesty the Queen in Right of Canada as represented by the duly authorized representatives of the Minister of Public Works and Government Services and by full legal name of guarantor by its officers duly authorized in that behalf.

**SIGNED, SEALED AND DELIVERED**

**THE MINISTER OF PUBLIC WORKS AND GOVERNMENT SERVICES  
CANADA**

per: \_\_\_\_\_  
(Name / Title)

per: \_\_\_\_\_  
(Name / Title)

**FULL LEGAL NAME OF GUARANTOR**

per: \_\_\_\_\_  
(Name / Title)

per: \_\_\_\_\_  
(Name / Title)

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request for Proposal  
W8476-06MSMP/L

### **PART 3 – BID PREPARATION INSTRUCTIONS**

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **1 Bid Preparation Instructions**

- 1.1 Canada requests that Bidders provide their bid in separately bound Volumes. The bids should include seven (7) separate Volumes as follows:

- Volume 1 Executive Summary (SMP Acquisition and SMP ISS)  
(1 original, 1 hard copy, and 1 soft copy on DVD/CD)
- Volume 2 Technical Proposal – Acquisition  
(1 original, 6 hard copies, and 1 soft copy on DVD/CD)
- Volume 3 Technical Proposal – ISS  
(1 original, 6 hard copies, and 1 soft copy on DVD/CD)
- Volume 4 Contractual Agreement and Financial Proposal (Acquisition and ISS)  
(1 original, 2 hard copies, and 1 soft copy on DVD/CD)
- Volume 5 Industrial and Regional Benefits (IRB) – Acquisition  
(1 original, 7 hard copies, and 2 soft copies on DVD/CD)
- Volume 6 Industrial and Regional Benefits (IRB) – ISS  
(1 original, 7 hard copies, and 2 soft copies on DVD/CD)
- Volume 7 Classified Information  
(1 original, 3 hard copies, and 1 soft copy on DVD/CD)

- 1.2 Prices should appear only in the Financial Proposal, Volume 4, and in the Financial information requested for the Industrial and Regional Benefits, Volume 5 and Volume 6. No prices should be indicated in any other section of the bid.

- 1.3 Each separately bound Volume and DVD/CD should have the RFP number, the Bidder's name, Volume number, Volume title, and serial number printed on the cover. The same identifying data should be placed on the spine of each binder to facilitate rapid identification. One copy of each Volume should be submitted as the original, and should be marked with the word "ORIGINAL".

- 1.4 Soft copies can be provided on one of the following media: CD, DVD. Unless stated otherwise, soft copies should be in Portable Document Form (PDF). If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy. If there is a discrepancy between the wording of the original and any hard copy, the wording of the original will have priority over the wording of the hard copy.

Canada reserves the right to use all the material, such as but not limited to information, documents, videos and presentations provided in the Bidder's proposal for evaluation purpose regardless of format.

- 1.5 Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) Use 8.5 x 11 inch (216 mm x 279 mm) paper or A4 (210mm x 297 mm) paper;
- (b) Use a numbering system that corresponds to that of the RFP and Statement of Work, with references to descriptive material, technical manuals and brochures included as part of the proposal and referenced accordingly;

- (c) Each hard copy of the proposal should bear a serial number, and the Bidder should identify the Original copy as serial number 1;
- (d) Each Volume should contain a detailed Table of Contents containing a list of all "tabbed" sections and sub-sections with associated page numbers, as well as the associated tables, figures, and Attachments and/or Appendices (whichever is applicable) contained in the part of the proposal to which it refers;
- (e) Tables, charts, and graphs used to depict organizations, systems, layout, implementation schedules, plans, etc, if not on 8.5x11 inch paper, should be provided on foldout pages that fold entirely within the Volume; and
- (f) Electronic data:
  - i. In PC compatible format;
  - ii. Documents, presentations and spreadsheets in Microsoft Office Suite 2003 compatible format and schedule in MS Project 2003 compatible format;
  - iii. Drawings in AutoCAD 2006; and
  - iv. Graphics and images in \*.BMP format, \*.JPG format, or 5x7 inches \*.GIF format.

If the electronic data is not submitted in the formats as requested above, the Contracting Authority may so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement.

- 1.6 In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and/or containing minimum 30% recycled content; and
- (b) use an environmentally-preferable format including black and white printing instead of colour printing, and printing double sided/duplex.

## **2 Bid Content**

### **2.1 Volume 1 – Executive Summary and Contractual Agreement**

- 2.1.1 This Volume serves as a stand-alone overview of the Bidder's plan to produce, deliver and support the SMP Vehicle, Trailers and Armour Protection System for the duration of the life of the vehicle. There are no mandatory criteria in this volume.
- 2.1.2 Bidders should provide the following information as part of this volume, or upon request from the CA:
  - (a) A summary of the Bidder's approach for meeting the requirements of the bid solicitation;
  - (b) A description of the project management team and the identity of the project manager and other key personnel;
  - (c) The identity of the persons that will act as the Contractor's representative(s) under Article 2.6, SMP Acquisition Contract (Part 7 to the RFP), and Article 2.6, SMP ISS Contract (Part 8 to the RFP);
  - (d) A list of current directors of the Bidder IAW 2003 standard instructions - article 01, subsection 4;

- (e) A high level summary of the areas of the Bidder's program for this procurement which will involve significant risk management, together with the Bidder's approach to mitigate those risks;
- (f) The identity of the person authorized to clarify/address any aspects of the Bidder's proposal;
- (g) The Bidder's background information and a summary of the team's capability and experience. The information should be clear and concise;
- (h) Insurance as outlined in Part 6, Article 4.1; and
- (i) A letter describing how their proposal would create economic opportunities for Canadians (Part 2, article 12).

## 2.2 **Volumes 2 and 3 – Technical Proposal**

- 2.2.1 These Volumes will be used to determine the compliance with Part 7, Annex B and associated appendices and Part 8, Annex B and associated appendices.
- 2.2.2 Bidders are cautioned that when they are required to provide documentation/data to demonstrate their compliance with the requirements, the documentation/data must be suitable for its intended purpose and must include all information, methodology, and assumptions required for independent verification.
- 2.2.3 Refer to Part 3 Attachment 3, section 2 and 3 respectively for more information on how to prepare your SMP Acquisition and SMP ISS Technical Proposals for Volume 2 and Volume 3. The LCC information requested at schedule 3-3 should only be submitted as part of Volume 4 of the bid.
- 2.2.4 In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.
- 2.2.5 The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria of the requirement against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

## 2.3 **Volume 4 – Contractual Agreement and Financial Proposal**

- 2.3.1 This Volume will be used to determine compliance with Annexes C of Part 7 and Part 8 and other contractual requirements.
- 2.3.2 The Bidder should provide the following information as part of this volume, or upon request from the CA:
  - (a) The Bidder's legal identity and the nature of the legal entity. A description of the teaming arrangements/Joint Venture, if any, and a list of any major subcontractors;
  - (b) A signed copy of their bid IAW 2003 – Standard Instructions, Article 05, sub article 1 (Attachment 1 to Part 2);



- (c) Copy of the licensing or other arrangement with a vehicle OEM, if applicable (article 3.5 of Part 2);
- (d) Certifications/forms as listed in Part 5, section 3 of the RFP;
- (e) Performance Guarantee, if applicable (Attachment 5 of Part 2); and
- (f) As indicated in Part 6 under Security Requirement, the Bidder must provide the required information below, regarding the Bidder's proposed site or premises for which safeguard measures are required for Work Performance:

Address:

Street Number / Street Name, Unit / Suite / Apartment Number

City, Province, Territory / State

Postal Code / Zip Code

Country

2.3.3 Bidders must include the following as part of their Financial Proposal :

- (a) Part 3, Attachment 3, Section 3, Schedule 3-3, LCC Input Data

For added clarity, the information in the tables will be used for both the technical evaluation and the financial evaluation. For the financial evaluation, refer to Part 4 for how this data will be used.

- (b) Part 4, Attachment 3, ISS Financial Evaluation

- (c) Part 4, Attachment 4, Acquisition Scenarios Financial Evaluation

For added clarity, Bidders may as part of one proposal, provide pricing for more than one Scenario in Part 4, Attachment 4, as long as it is for the same equipment (no vehicle modification between the Scenarios). However, should a Bidder provide pricing for Scenario 1, they must also submit pricing for Scenario 2 and 3. Should a Bidder submit pricing for Scenario 2, they must also provide pricing for Scenario 3. Only Scenario 3 can be submitted alone as part of one proposal.

- (d) Part 7, Annex C, Table 1-1 Vehicles and Related Equipment – Additional (Gun Tractor Variant) and Table 5 - ILS Data and Deliverables – Options (Training)

- (e) Part 8, Annex C, Appendix 2, Table 1 Initial Provisioning Spares

2.3.4 The Initial Provisioning Spares (IPS) list includes both ceiling and firm price items. The firm prices proposed for the items listed in the Life Cycle Costing (LCC) tables (sub-paragraph (a) above) must be the same prices as in the IPS list. Should the firm prices be different, the firm prices provided in the LCC tables will be used by Canada in the Resulting ISS Contract. The other items proposed will be ceiling prices used during the Initial Provisioning Conference (IPC).

2.3.5 The Special Tools and Test Equipment (STTE) firm fixed prices provided in Part 4, Attachment 3 will be binding for the initial period of the ISS contract. If Canada requires additional STTE not found on this STTE listing, the Contractor will supply such additional STTE at no extra cost to Canada.

2.3.6 Except for Exchange Rate Fluctuation Protection as described in 2.3.7 below, by submitting a bid, the Bidder agrees to assume all other risks with respect to changes in costs during the performance of both of the Contracts to be awarded pursuant to the solicitation.

- 2.3.7 Bidders may request Canada to assume the risk for exchange rate fluctuation for each Contract. This request must be specifically made at time of bidding. Should the Bidder request an exchange rate fluctuation protection, the following will apply:
- a) Unless otherwise specified in the bid solicitation, bids must be in Canadian currency;
  - b) The foreign currency component is defined as the element of the price that will be directly affected by exchange rate fluctuations. It could include the net price DDP to the various locations identified in Part 4, Attachment 4, costs associated with applicable duty, excise tax, Goods and Services Tax or Harmonized Sales Tax, if applicable, entry fees, transportation costs or delivery charges payable in a foreign currency, and any other charges associated with being the importer of record if they originated from and are required to be paid in a foreign currency;
  - c) For each request, the foreign value of the foreign currency component of the bid or negotiated price must be provided in the Bid by completing Table 8 of Annex C to Part 7 and/or Appendix 8 of Annex C to Part 8. Form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it is recommended to indicate on the above form the foreign currency component associated with each milestone event;
  - d) All bids are evaluated in Canadian currency. Therefore, for evaluation purposes, the noon rate quoted by the Bank of Canada as being in effect on the day of bid closing, will be applied as the initial conversion factor for the specified currency. (Column 3 of the above form will be completed by the Contracting Authority);
  - e) Rates proposed by Bidders will not be accepted for the purposes of this exchange rate adjustment provision;
  - f) The exchange rate adjustment will only be applied when the rate change is greater than 2% (+ or -) (i.e.  $\text{abs}[(i1 - i0) / i0] > .02$ ), where "abs" represents the absolute value; and
  - g) If there are two (2) identical bids, and provided that the bid selected would still be considered the most advantageous to Canada, preference will be given to the Bidder who assumes all or part of the exchange rate adjustment risk over a bidder who does not assume any of this risk. Furthermore, preference will be given to the Bidder who assumes all of the exchange rate adjustment risk over a bidder who assumes only part of this risk.
- 2.3.8 For each request, Canada will pay the exchange rate adjustment amount in Canadian currency using the prevailing noon rate on the date of payment by Canada or, as applicable, in accordance with Article 3.6 of Part 7 and Article 3.7 of Part 8.
- 2.3.9 Part 7 – Resulting Contract – Acquisition, Financial Proposal Preparation Instructions:
- a) All Items listed in Part 4, Attachment 4 and in Part 7, Annex C, must be priced separately (excluding GST/HST) in accordance with the tables. Prices for items identified in Part 7, Annex C must be inclusive of all Work required for the performance of the Contract. All prices quoted must be in Canadian dollars and firm unit/lot prices as specified in Article 3, Financial, of the resulting SMP Acquisition Contract (Part 7 of the RFP).
  - b) For Part 4, Attachment 4, Bidders must provide pricing Delivery Duty Paid (DDP) (Consignee) IAW Incoterms 2000, in the appropriate sections.
- 2.3.10 Part 8 – Resulting Contract – ISS, Financial Proposal Preparation Instructions:

- a) All Items listed in Part 8, Annex C must be priced separately (excluding GST/HST) in accordance with the tables. Prices for items identified in Part 8, Annex C must be inclusive of all Work required for the performance of the Contract. All prices quoted must be in Canadian dollars and firm unit/lot prices as specified in Article 3, Financial, of the resulting SMP ISS Contract (Part 8 of the RFP).
- b) For Part 8, Annex C, Appendix 2, Table 1- Initial Provisioning Spares (IPS) list are ceiling prices that will be binding up to the ordering of the spares following the Final Initial Provisioning Conference (IPC). The items in Table 1 must represent all the initial provisioning items that the bidder recommends as part of the initial procurement of spares. Furthermore, the quantities recommended by the bidder in Table 1 must be based on Scenario 3 quantities for 2 years worth of support. Should an item already priced in the LCC tables also be recommended by the bidder in Table 1, pricing in the LCC tables will be used.
- c) The Bidders must propose their firm labour rates, overhead and profit rates in the format requested at Part 8 Annex C, Appendix 6, Table 1. The proposed rates against the labour categories will be used for pricing of any additional requirements authorized IAW the resulting SMP Acquisition Contract and the ISS Contract (Parts 7 and 8 of the RFP).

## 2.4 **Volume 5 and Volume 6 – Industrial and Regional Benefits Proposal Preparation Instructions**

- 2.4.1 These Volumes will be used to determine compliance with the Industrial and Regional Benefits requirements described in Annex F of Part 7 and Annex F of Part 8.
- 2.4.2 The IRB Proposal Volumes provides the bidder the opportunity to demonstrate its understanding of the IRB requirement and to describe the approach proposed to meet or exceed these requirements as well as demonstrate how the Bidder will meet the IRB requirements.
- 2.4.3 The Bidder's IRB Proposal Volumes must provide response to the mandatory requirements and point-rated evaluation criteria. The Bidder's proposal should either provide sequential responses which correspond to the numbering and structure of the mandatory requirements and point rated evaluation criteria, or the proposal should provide a clear mapping between the mandatory requirements and point rated evaluation criteria and where the relevant information can be found in the Bidder's IRB Proposal Volumes. All plans and other requested documentation should also be numbered to correspond to their associated criterion. Refer to Part 3, Attachment 2 for more information on how to prepare your Industrial and Regional Benefits Proposals for Volume 5 and Volume 6.

## 2.5 **Volume 7 – Classified Information**

- 2.5.1 This Volume will be used to determine compliance with the requirements of:
  - a) Part 3, Attachment 3, Section 2, Article 3;
  - b) Part 3, Attachment 3, Section 2, Schedule 3-1; and
  - c) Part 7, Annex B, Appendix BA-6.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 3 - Bid Preparation Instructions

Attachment 1 - Not Used

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

Request for Proposal  
W8476-06MSMP/L

**PART 3 – BID PREPARATION INSTRUCTIONS**

**ATTACHMENT 2 - INDUSTRIAL AND REGIONAL BENEFITS  
(IRB) PROPOSAL PREPARATION INSTRUCTIONS**

## **IRB PROPOSAL PREPARATION INSTRUCTIONS**

### **1.0 INTRODUCTION**

- 1.1. It is the intent of the Canadian Government, (referred to herein as “Canada”) that this project provide Industrial and Regional Benefits (IRB) that will contribute to the continuing viability of Canadian companies’ capabilities in high technology manufacturing and services and to improve their ability to compete in both domestic and international markets.
- 1.2. Canada’s objectives recognize the importance of IRB in procurement and therefore they will be a factor to be evaluated in the awarding of the contract.
- 1.3. Any proposal that does not meet the Mandatory IRB Requirements found in Section 5 of this document will be declared non-compliant.
- 1.4. It is the responsibility of the Industry Canada IRB Authority, in cooperation with the Regional Development Agencies, to ensure that IRB Commitments are included in any procurement contract entered into as a result of this RFP.

### **2.0 GENERAL INSTRUCTIONS**

- 2.1. In responding to the IRB requirements of this Request for Proposal (RFP), the Bidder is advised to prepare its IRB proposal and individual Transactions, using the IRB Requirements detailed in the resulting Contract portions of the RFP (Annex F of Part 7 and Part 8 of the RFP).
- 2.2. Definitions and contractual provisions related to the IRB Policy are also found in Annex F, IRB Terms and Conditions, Plans, Transactions, Tables, Certificate of Compliance, Transaction Sheet, and Enhanced Priority Technology List), of the resulting SMP Acquisition and SMP ISS Contracts.
- 2.3. The Bidder must prepare and submit two (2) IRB proposals, one for the SMP Acquisition Contract and one for the SMP In-Service Support (ISS) Contract. The proposal must be fully responsive to the requirements stated in this RFP.
- 2.4. The Bidder must identify all IRB Transactions (including unallocated) that comprise the dollar value of its total IRB Commitment. The portion of identified IRB Transactions must be fully described.
- 2.5. For the SMP Acquisition IRB proposal, the Bidder’s total IRB Commitment Value must be equal to the sum of:
  - the highest value proposal for the scenarios 1, 2 or 3 identified in Part 4, Article 3.3.1, And
  - Part 7, Annex C, Table 1-1 (Vehicles and Related Equipment – Additional)
- 2.5.1. Furthermore, the Bidder must identify IRB Transactions equal to a minimum of thirty (30) percent of their total SMP Acquisition IRB Commitment Value.
- 2.5.2. In the event that the Bidder’s proposed SMP Acquisition IRB Commitment Value is higher than the value of the SMP Acquisition Scenario selected by Canada, the IRB Commitment Value will be adjusted as appropriate by Canada prior to contract award.

- 2.6. For the SMP ISS IRB proposal, the Bidder's total IRB Commitment Value must equal the ISS bid price proposed for bid evaluation purposes at Part 4, Attachment 3 and Annex C, Part 8.
- 2.6.1. Furthermore, the Bidder must identify IRB Transactions equal to a minimum of thirty (30) percent of their total SMP ISS IRB Commitment Value.
- 2.7. The Bidders IRB proposal should be submitted in two (2) separate self-contained binders. Volume 5 should be the Acquisition IRB proposal and Volume 6 should be the ISS IRB proposal. For ease of evaluation, any material contained in another section but relevant to an IRB proposal should be repeated in the latter proposal.
- 2.8. Bidders are not required to propose IRB Transactions associated with contract options included in the resulting SMP Acquisition Contract in their Acquisition IRB Proposal. However this does not alleviate the Contractor's IRB Commitments and responsibilities under the SMP Acquisition Contract. Should Canada exercise contract options included in the SMP Acquisition Contract, the Bidder will be required to submit to the IRB Authority, six (6) months after each contract option is exercised, acceptable IRB Transactions which are detailed, fully described and equal the value of the contract option exercised, measured in Canadian Content Value.
- 2.9. Bidders are not required to propose IRB Transactions associated with contract options included in the resulting SMP ISS Contract in their ISS IRB Proposal. However this does not alleviate the Contractor's IRB Commitments and responsibilities under the SMP ISS Contract. Should Canada exercise contract options included in the SMP ISS Contract, the Bidder will be required to submit to the IRB Authority, six (6) months after each contract option is exercised, acceptable IRB transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in Canadian Content Value.

### **3.0 CANADA'S INDUSTRIAL AND REGIONAL BENEFITS OBJECTIVES**

- 3.1. The Bidder's IRB submission should clearly indicate how the business activities associated with its IRB Proposal will be achieved if it wins this contract. The optimum IRB Proposal will result in the creation and exploitation of capabilities, knowledge, technologies and markets of lasting benefits to Canadian industry.
- 3.2. Proposed IRB activities with a Canadian company should result in the enhancement of Canadian capability to undertake other work of a similar nature, including gaining access to export markets. It should make a positive contribution to the continuing viability, growth and development of the Canadian recipient of the IRB and its subcontractors.
- 3.3. The regional development objectives of Canada are to encourage long term quality improvements to the capability, capacity, international competitiveness and growth potential of Canadian firms in those regions where Canada has established specific initiatives to promote economic growth and diversification through procurement. These Designated Regions as defined in Article 1.1 of Annex F of Part 7 and Part 8 of the RFP include: Atlantic, Quebec, Northern Ontario, Southern Ontario, West. IRB Transactions proposed by the Bidder in support of Regional Development will be assessed on this project.
- 3.4. It is the objective of Canada to encourage the participation of Canadian small businesses as suppliers on major federal procurements and to increase their export market access. IRB

Transactions proposed to be undertaken by the Bidder in support of small business supplier development and subcontracting will be assessed on this project.

- 3.5. Canadian industry should receive, when possible, the maximum high quality, low risk, Direct Benefits associated with the delivery of the Work contained in the Statements of Work in this RFP.
- 3.6. In addition, Canadian industry must receive high quality, low risk, Indirect Benefits, generally of the same level of technology or higher as the Direct Benefits.
- 3.7. Canadian industry in all Regions of Canada is expected to benefit from the SMP component of the MSVS Project.
- 3.8. Canadian Small and Medium Business is expected to benefit from the SMP component of the MSVS Project.
- 3.9. Canadian resources should be utilized to the maximum extent possible to develop, produce, integrate and deliver the SMP component of the MSVS Project.

#### **4.0 IRB TRANSACTIONS**

- 4.1. The business activities proposed in support of the objectives outlined above must be in the form of specific IRB Transactions. An IRB Transaction is a work package which will become a contractual obligation of the Contractor. There are two types of IRB Transactions: Direct IRB Transactions and Indirect IRB Transactions. Eligible areas of involvement include, but are not limited to, hardware and software, project management, systems design, engineering and integration, programming and independent validation and verification, installation engineering and site installation.

##### **4.1.1 Direct IRB Transactions**

- 4.1.1.1 Direct IRB Transactions are those achieved through the provision of the goods and services required to deliver the SMP component of the MSVS Project or achieved through the provision of goods and/or services on approved Global Value Chain (GVC) platforms.
- 4.1.1.2 Canadian resources should be utilized to the maximum extent possible to develop, produce, integrate and deliver the SMP component of the MSVS Project.
- 4.1.1.3 An eligible Global Value Chain (GVC) platform must be similar to the platform being proposed for the SMP component of the MSVS Project, have a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the SMP component of the MSVS Project, and one that offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities. Bidders must clearly describe in their IRB proposals how their proposed GVC platform meets each of these criteria.
  - 4.1.1.3.1 Activities associated with GVC platforms include, but are not limited to, pre-commercialization activities (e.g. collaborative technology development and demonstration projects), production activities (e.g. definition, design, and manufacturing) and In-Service Support (ISS) activities.



#### 4.1.2 Indirect IRB Transactions

4.1.2.1 Indirect IRB Transactions are those achieved through business activities or IRB Transactions not related to the SMP component of the MSVS Project generated by the Contractor or other Eligible Parties (Eligible Parties are subject to approval by the IRB Authority). The definition of Eligible Party is included in Annex F of Part 7 and Part 8 of the RFP.

4.1.2.2 These Indirect Transactions proposed by the Contractor should comprise advanced technology products or skills transfers or services comparable or higher in nature and level of complexity to the Direct Work involved in the SMP component of the MSVS Project that will result in long-term export sales or import replacement by, and lasting benefit to Canadian companies.

4.1.3 Any business activity proposed as an IRB Transaction in support of Canada's IRB objectives will only be considered if it meets the Eligibility Criteria as provided in Annex F of the resulting SMP Acquisition and SMP ISS Contracts. These criteria will be used in evaluating the proposal submitted in response to this RFP and will form the basis for any ensuing Contract. The IRB Authority reserves the right to seek validation of the Eligibility Criteria for any or all proposed IRB Transactions within one year of Contract award. Should any IRB Transactions be found to not meet the Eligibility Criteria, the Transaction will be not be eligible for IRB credit and a substitute Transaction will be sought from the Contractor.

### **5.0 IRB MANDATORY REQUIREMENTS**

There are seven (7) mandatory requirements that the Bidder must meet. The omission of any part of the following seven requirements will result in the IRB proposal being declared non-compliant such that the Bidder's complete bid package will not be evaluated:

#### 5.1 Requirement One:

- 5.1.1. The Bidder's Acquisition IRB proposal must equal a minimum of 100% of the bid price, measured in Canadian Content Value (CCV), to be achieved within the period beginning June 27, 2006 and ending five (5) years after the effective date of the contract.
- 5.1.2. The Bidders ISS IRB proposal must equal a minimum of 100% of the bid price, measured in CCV, to be achieved within the period beginning June 27, 2006 and ending two (2) years after the completion of the Period of Performance of the contract.
- 5.1.3. For the winning bidder, the amounts proposed will become the IRB Commitment Value which must be achieved under the pursuant contracts. The Bidder must also commit to match the Acquisition and ISS bid price of any contract options, if exercised, with an equal amount of IRB, measured in CCV.

#### 5.2 Requirement Two:

In its IRB Proposal due at bid closing, the Bidder must identify acceptable IRB Transactions which are detailed, fully described and equal in total to a minimum of 30% of bid price, for each (Acquisition and ISS) measured in CCV. The Bidder must also commit to identifying, one (1) year after contract award, additional acceptable IRB Transactions which are detailed,

fully described and bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV. The Bidder must also commit to identifying, three (3) years after the Acquisition contract award, and three (3) years after the ISS contract award, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.

5.3 Requirement Three:

5.3.1. The Bidder must commit to achieve Direct IRB Transactions equal to a minimum of 20% of the contract value for the SMP Acquisition Contract.

5.3.2. The Bidder must commit to achieve Direct IRB Transactions equal to a minimum of 35% of the contract value for the SMP ISS Contract.

5.4 Requirement Four:

The Bidder must accept and agree to the terms associated with a failure to meet IRB obligations (Liquidated Damages of 10% and stop payments).

5.5 Requirement Five:

In the evaluation of the IRB Proposals, the Bidder must achieve a minimum of 36 points for the IRB Plans and 270 points for the IRB Transactions.

5.6 Requirement Six:

The Bidder must accept the IRB Terms and Conditions at Annex F of each of the SMP Acquisition and SMP ISS Contracts (Part 7 and Part 8 to the RFP).

5.7 Requirement Seven:

The Bidder's IRB Proposal must contain the following components:

- 5.7.1 Executive Summary of IRB Commitment;
- 5.7.2 Company Business Plan;
- 5.7.3 IRB Management Plan;
- 5.7.4 Regional Development Plan;
- 5.7.5 Small and Medium Development Plan;
- 5.7.6 Detailed IRB Transaction Sheets; and
- 5.7.7 IRB Compliancy Checklist

6.0 **STATEMENT OF IRB WORK**

6.1 The following sections detail the content of the component of the IRB Proposal referred to above in sub-article 5.7.

6.2 Executive Summary of IRB Commitments

6.2.1 The Executive Summary should include an integrated overview of the complete IRB Commitment, with cross-references, as appropriate, to the other IRB Plans specified herein that must be submitted as part of this proposal. It should clearly demonstrate how the Bidder will address the project's IRB objectives and how each of these objectives will be achieved through the proposed IRB Commitments.

- 6.2.2 The Executive Summary should provide a tabular presentation of the Bidder's IRB commitments. The presentation should include a summary of IRB Commitments (applied in CCV) by Direct, Indirect, Region, and Small and Medium Business.
- 6.2.3 The Bidder has the option of including in the Executive Summary a forecast plan of the IRB Transactions it anticipates submitting as part of the second tranche, due one (1) year following contract award. This forecast plan may include information such as upcoming supplier development activities, a list of Canadian firms with whom the Bidder or its Eligible Parties are considering doing business or specific capabilities for which the Bidder or its Eligible Parties are seeking Canadian suppliers.
- 6.2.4 It should include a separate paragraph containing concise and precise statements of the Company's commitments to the mandatory requirements in Section 5.0.

6.3. Company Business Plan

- 6.3.1. The Bidder's Company Business Plan should outline, in general terms, the long-term impact of the award of the Contract on the Bidder and its Eligible Parties' business in Canada, and on the IRB recipients.
- 6.3.2. The Plan should include the following information on the Bidder and its Eligible Parties:
  - 6.3.2.1 a description of the decision-making process for establishing product and services responsibilities and market mandates within the company;
  - 6.3.2.2 a description of the Bidder's management of corporate functions such as strategic planning, research and development, and marketing, including the identification and location of these responsibility centres;
  - 6.3.2.3 a description of the Bidder and its major subcontractors' operations worldwide, including a corporate profile containing a narrative description and hierarchically ordered chart which describes each firm's present corporate structure, including parents and subsidiaries relationships. A written description of their functional interrelationships should be included containing a detailed presentation showing the existing and proposed financial arrangements between the Bidder and each of its first-tier subcontractors; and
  - 6.3.2.4 an organizational chart identifying key personnel responsible to manage and deliver the Project.
- 6.3.3 The Plan should include the following information on the IRB Recipients:
  - 6.3.3.1 the impact of the award on existing and new areas of business; and
  - 6.3.3.2 a description of how the award of major sub-contracts to Canadian companies for this project would enhance the capability of these firms to undertake other domestic and foreign programs or pursue related new business activities with similar characteristics.

#### 6.4 IRB Management Plan

- 6.4.1 The plan should describe the methods by which the Bidders will implement, manage, monitor and report progress on its IRB activities towards achievement of the proposed IRB Transactions.
- 6.4.2 The plan should include but not be limited to identification of all the IRB management functions and the associated organization required to fulfill the proposed IRB commitments during the contract period. The description of the IRB program management organization should include but need not be limited to the following:
  - 6.4.2.1 an organization chart identifying key personnel responsible for IRB management functions;
  - 6.4.2.2 a list of the proposed Eligible Parties, including the name, address and phone number of the respective IRB contact; (Note: Eligible Parties are subject to approval by IRB Authority. As such, Bidders are encouraged to review the definition of Eligible Party within Annex F of Part 7 and Part 8 of the RFP.);
  - 6.4.2.3 a list and description of the proposed Global Value Chain platforms;
  - 6.4.2.4 a description of the facilities and resources assigned to this program;
  - 6.4.2.5 an explanation of how IRB considerations will be factored into the decision making process, and the mandates and/or responsibilities of the specific organizations that must implement IRB; and
  - 6.4.2.6 a description of the methods and procedures that will be employed to identify, track and report IRB Commitments.
- 6.4.3 The plan will be used to assess the Bidder's ability to manage and deliver an acceptable IRB package.

#### 6.5 Regional Development Plan

- 6.5.1 The Regional Development Plan should provide, in as much detail as possible:
  - 6.5.1.1 the efforts made and the approaches to be followed in order to achieve optimum distribution of the IRB to the Designated Regions; and
  - 6.5.1.2 the level of CCV and the percentage of total CCV, that the Bidder has committed to in the Designated Regions of Canada, for both Direct and Indirect IRB Transactions;
- 6.5.2 The Detailed IRB Transaction Sheets will be used to support this requirement and should be cross referenced to this Plan.

#### 6.6 Small and Medium Business Development Plan

- 6.6.1 The Small and Medium Business Development Plan should provide in as much detail as possible:

- 6.6.1.1 Identification of small and medium business subcontractors that will be participating in the proposal and a description of their participation and the CCV contributed to the project.
- 6.6.1.2 Identification of opportunities, assistance and encouragement that the Bidder will provide to stimulate and promote small and medium business both as potential suppliers to the project and for their general development.
- 6.6.2 The Detailed IRB Transaction Sheets will be used to satisfy this requirement and should be cross referenced to this Plan.

6.7 Detailed IRB Transaction Sheets

- 6.7.1 Each IRB proposal must provide complete information on each IRB Transaction that the Bidder proposes to provide to Canada and for which it is prepared to commit contractually. The content of the IRB proposal will form the basis for the IRB Commitments to be specified in the Contract. A separate sheet is to be completed for each proposed IRB Transaction, detailing the particulars of the given activity. These details are as follows:
  - 6.7.1.1 IRB Transaction Identifier Number - each IRB Transaction should be assigned a unique number, in sequential order, for reference purposes;
  - 6.7.1.2 IRB Donor (company providing IRB) and Recipient (company receiving IRB) contact information;
  - 6.7.1.3 Transaction Value (Total Contract Value and Canadian Content Value);
  - 6.7.1.4 IRB Classification – Direct or Indirect;
  - 6.7.1.5 Industrial sector, Enhanced Priority Technology List (EPTL), and expertise of the IRB Recipient;
  - 6.7.1.6 Fulsome description of the IRB Transaction Activities and Canadian Recipient Company. It will be in the Bidder's interest to fully describe the nature of the proposed IRB Transaction so it can be properly evaluated by the IRB Evaluation Team. Failure to adequately describe the nature of the work being proposed may result in the proposed IRB Transaction being disallowed.
  - 6.7.1.7 Region;
  - 6.7.1.8 Small and Medium Business;
  - 6.7.1.9 Description of the quality of the IRB transaction. In those cases where the Bidder can identify a recipient of a proposed IRB Transaction, Bidders are encouraged to provide statements from the Canadian recipient describing the impact that the IRB Transaction will have on the recipient's company. These statements should be appended to the applicable IRB Transaction form;
  - 6.7.1.10 Description of any other Canadian Government Assistance involved in the transaction;

- 6.7.1.11 Provide and show justification for eligibility as a valid IRB Transaction (Causality, Timing, Incrementality, Eligible Party and CCV), as detailed in Article 5 of Annex F of the resulting SMP Acquisition and SMP ISS Contracts.
- 6.7.1.12 IRB Schedule – the time phasing and cash flow for each IRB Transaction must show on each IRB Transaction sheet, broken out by 12 month periods.
- 6.7.1.13 Liquidated Damages – (minimum - 10%)
- 6.7.1.14 Insert the Federal Supply Classification (FSC) code for each IRB Transaction.
- 6.7.2 Commitments of unallocated IRB are to be identified on two separate Detailed IRB Transaction Sheets: one for Unallocated Direct IRB; and one for Unallocated Indirect IRB.
- 6.7.3 A sample IRB Transaction Sheet that contains the above mentioned data is shown in Annex F of the resulting SMP Acquisition and SMP ISS Contracts.
- 6.8 IRB Compliancy Checklist
- 6.8.1 Bidders are required to submit with their SMP Acquisition and ISS proposal an IRB Compliancy Checklist that confirms that all mandatory requirements to this RFP have been met. The compliancy checklist must include the information shown in the following table:

Mandatory Requirements - Compliancy Checklist (To be completed for each IRB Proposal - Acquisition and ISS)		
	<u>Met</u>	<u>Not Met</u>
1. The Canadian Content Value (CCV) of the IRB proposal equals a minimum of 100% of the bid price, without optional work.	_____	_____
Without optional work, the Bid Price is:	\$ _____	

Mandatory Requirements - Compliancy Checklist (To be completed for each IRB Proposal - Acquisition and ISS)		
The Bidder must also commit to match the Acquisition and ISS bid price of any contract options, if exercised, with an equal amount of IRB, measured in CCV.	_____	_____
2. In its IRB Proposal due at bid closing, the Bidder must identify acceptable IRB Transactions which are detailed, fully described and equal in total to a minimum of 30% of the bid price, measured in CCV for both the Acquisition and ISS Contracts. The bidder must also commit to identifying, one (1) year after contract award, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to 60% of the Acquisition and ISS contract values, measured in CCV. The bidder must also commit to identifying, three (3) years after the Acquisition and three (3) years after the ISS contract award, additional acceptable IRB Transactions which are detailed, fully described and bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.	_____	_____
3. The Bidder must commit to achieve Direct IRB Transactions equal to a minimum of 20% of the contract value for the SMP Acquisition Contract, and Direct IRB Transactions equal to a minimum of 35% of the contract value for the SMP ISS Contract.		
4. The IRB proposal has reached a minimum evaluation score of 36 points for the IRB Plans and 270 points for the IRB Transactions.	_____	_____
5. Accepts and agrees to the terms associated with a failure to meet IRB obligations (Liquidated Damages of 10% and stop payments).	_____	_____
6. Accepted Terms & Conditions of IRB Requirements in Annex F of the resulting SMP Acquisition and SMP ISS Contracts.	_____	_____
7. IRB Proposals must contain the following components:		
Executive Summary;	_____	_____
Company Business Plan;	_____	_____

Mandatory Requirements - Compliancy Checklist (To be completed for each IRB Proposal - Acquisition and ISS)		
IRB Management Plan;	_____	_____
Regional Development Plan;	_____	_____
Small and Medium Business Development Plan;	_____	_____
Detailed IRB Transaction Sheets;	_____	_____
Completed IRB Mandatory Requirements Compliancy Checklist.	_____	_____

## 7.0 **BANKING**

- 7.1 Bidders may apply Banked IRB Transactions as part of their proposal. These transactions will be evaluated using the same methodology described in IRB Proposal Evaluation Plan, Part 4, Attachment 2, IRB Proposal Evaluation Plan.
- 7.2 Bidders must provide a signed letter of acceptance from Industry Canada indicating that the banking transaction is valid.
- 7.3 The entire CCV of a Banked IRB Transaction, not portions thereof, must be applied to a single IRB Transaction proposed under the Contract. Each transaction must clearly state that it is a Banked IRB Transaction. The Banked IRB Transaction must contain the exact information as submitted to the IRB Bank.
- 7.4 If the Detailed IRB Transaction Sheet is not clearly marked or the banked transaction is different then the transaction in the IRB bank, the proposed IRB Transaction may be rejected.
- 7.5 If a Banked IRB Transaction is used as part of a Bidder's proposal, the Evaluation Committee will consider the transaction as approved for meeting the IRB Eligibility Criteria. However, the Transaction will be evaluated on a quality and risk score as stated in Part 4, Attachment 2, IRB Proposal Evaluation Plan.
- 7.6 As a part of this proposal, Bidders may submit Banked IRB Transactions with a cumulative value up to a maximum of 15% of the bidding price. Any value above this threshold will not be evaluated.

## 8.0 **ENHANCED PRIORITY TECHNOLOGY LIST**

- 8.1 Bidders are encouraged to consider identifying and achieving on a best efforts basis over the IRB Achievement Period, IRB Transactions in technology areas specific in the Enhanced Priority Technology List (EPTL) Version 1.0 (attached as Appendix 4 to Annex F) equal to a



minimum of 5% of the contract value for each of the SMP Acquisition and SMP ISS Contracts, measured in Canadian Content Value.

- 8.2 If EPTL transactions are proposed, bidders should fully describe and document in their IRB proposal how any proposed EPTL transactions are: relevant to the EPTL Version 1.0; and, of a unique and/or transformational nature to existing global product offerings. Bidders should note that any proposed EPTL transaction must meet the IRB Eligibility Criteria, outlined in the IRB Terms and Conditions found at Annex F of each of the SMP Acquisition and SMP ISS Contracts (Part 7 and Part 8 to the RFP).
- 8.3 Bidders may choose to include a banked EPTL-related transaction in their IRB Proposal for the SMP Project. (See Section 7 of this document - Banking.) With respect to a banked EPTL transaction, the Version of the EPTL which was in effect at the time of the transaction's acceptance into the IRB Bank may be different than the version applicable to the Standard Military Pattern component of the MSVS Project. In that case, the banked EPTL transaction can nonetheless be counted towards the EPTL requirement on the Standard Military Pattern component of the MSVS Project.
- 8.4 The IRB Authority is the single point of contact between industry and government regarding the EPTL. All enquiries regarding the EPTL contents should be directed to the IRB Authority, through the PWGSC Contracting Authority.

## **9.0 SMALL AND MEDIUM BUSINESS IRB TRANSACTIONS**

- 9.1 Bidders are encouraged to consider identifying and achieving on a best efforts basis over the IRB Achievement Period, Small and Medium Business IRB Transactions equal to a minimum of 15% of the contract value for each of the SMP Acquisition and SMP ISS Contracts, measured in Canadian Content Value.

## **10.0 INVESTMENT FRAMEWORK (IF)**

- 10.1 An IF transaction that has been fully reviewed and approved by the IRB Authority as a Banked Transaction may be included in a Bidder's IRB Proposal submitted at bid closing. The processes and limits regarding Banked Transactions are outlined in Section 7, "Banking."
- 10.2 If an IF activity which has not been fully reviewed and approved by the IRB Authority as a Banked Transaction is included in a Bidder's IRB Proposal submitted at bid closing, it will not be evaluated and its value will not be counted in any way for evaluation purposes.

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 3 – Bid Preparation Instructions

Attachment 3 – Technical Proposal Preparation Instructions

Section 1 – Introduction

## **1. Preliminary Information for Bidders**

- 1.1 This attachment describes what is required from the Bidders in order to prepare their Technical bid and their equipment accordingly as part of this evaluation. Section 2 of this attachment provides the instructions for the preparation of the Acquisition Technical Proposal and Section 3 provides the instructions for the In-Service Support Technical Proposal.
- 1.2 Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise, and clear manner for carrying out the Work.
- 1.3 In each area of their bid, the use of descriptive and/or illustrative material is encouraged. Descriptive/illustrative material may include but is not necessarily limited to:
  - (a) design data such as layout diagrams, block diagrams, flowcharts, functional flow diagrams, photographs, videos (in digital format if possible) and sketches showing system architecture, organization, equipment configuration and equipment breakdown structure; and
  - (b) any other information considered by the Bidder to be pertinent to the applicable area of their bid.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 3 – Bid Preparation Instructions

Attachment 3 – Technical Proposal Preparation Instructions

Section 2 – Acquisition Proposal Preparation Instructions

<b>1.0</b>	<b>Management Plans, Surveys, and Reports .....</b>	<b>3</b>
<b>2.0</b>	<b>Technical Requirements .....</b>	<b>3</b>
<b>3.0</b>	<b>Survivability Requirements .....</b>	<b>4</b>
<b>4.0</b>	<b>Interactive Electronic Technical Manual (IETM) .....</b>	<b>6</b>
<b>5.0</b>	<b>Technical Compliancy Program (TCP) .....</b>	<b>7</b>

## 1.0 Management Plans, Surveys, and Reports

- 1.1 The Bidder shall submit complete draft management plans, surveys, and reports (unless otherwise stated) in accordance with their respective Data Item Descriptions (DIDs) as outlined in Table 1.

**Table 1: Management Plans, Surveys, and Reports**

<b>DID – Part 7:</b>	<b>Plan Title</b>
SMP-PM-001	Project Management Plan
SMP-PM-003	Master Project Schedule
SMP-SE-001	Systems Engineering Management Plan
SMP-SE-003	Quality Assurance Plan
SMP-SE-011	Integrated Testing and Support Plan
SMP-IL-001	Integrated Logistics Support Plan
SMP-IL-024	Environmental Health and Safety Impact Report
SMP-IL-025	Contractor Capability and Facility Survey

## 2.0 Technical Requirements

- 2.1 Technical requirements for the Vehicle, APS and Trailer are found in Part 7, Appendix BA and its corresponding attachments.
- 2.2 The Bidder shall respond to all technical requirements in Appendix BA and its corresponding attachments in accordance with the “Proposal Compliance Method (PCM)” column. The Bidder shall respond to additional specific instructions related to survivability that are detailed in paragraph 3.0 of this document. The PCM column identifies the type of response required in the proposal to satisfy requirements. There are two types of compliance methods in the PCM column as follows:
- 2.2.1 Statement of Compliance (SOC): The Bidder shall provide a signed copy of its proposal certification (Part 5, Article 2.4 – Certificate of Compliance) to indicate compliance to all requirements identified as SOC; and
- 2.2.2 Proof of Compliance (POC): The Bidder shall provide sufficient information to prove compliance. When indicated, the Bidder shall provide, as a minimum, the specific information that is identified in the PCM column in order to satisfy the requirement. If specific information is not indicated, the onus is on the Bidder to provide sufficient information to prove compliance. This information can include, but is not limited to:
- a. Test reports;
  - b. Detailed drawings;
  - c. 3D CAD models;
  - d. Photographs;
  - e. Videos;
  - f. Calculations and analysis; and
  - g. Published specifications in product literature
- 2.2.3 When “Not required” (N/R) is indicated in the PCM column, this simply means that the Bidder does not need to provide any proof for that specific rated requirement

because it will be evaluated in the Technical Compliancy Program (TCP) described in Section 5.0 of this document.

2.2.4 Where the Bidder's response to a particular mandatory Vehicle criterion is variant-dependent and requires a POC, the Bidder shall provide a POC for each variant.

2.2.5 Where the Bidder's response to a particular point-rated Vehicle criterion is variant-dependent and requires a POC, in order to be awarded points, the Bidder should provide a POC for each variant.

2.3 It is not mandatory for the Bidder to propose a response to any of the rated requirements in Appendix BA, and its corresponding attachments. However, if the Bidder wishes to be awarded points for any particular rated requirement, the Bidder shall clearly respond to that rated requirement indicating the level of performance proposed along with any supporting POC.

2.4 In order to facilitate the technical evaluation of the Bidder's proposal, the Bidder should, for all requirements identified as POC or N/R, complete the Proposal Reference column in Appendix BA and its corresponding attachments. In this column the Bidder should identify for each requirement, the location of the corresponding POC supplied by the Bidder in its proposal.

### 3.0 Survivability Requirements

3.1 The survivability requirements consist of mandatory and rated requirements as described respectively in Sections 1.4 and 2.2 of Attachment BA-6.

3.2 Information provided by Bidders related to the area of survivability will be treated as "SECRET". Evaluation results and any information documented relative to survivability as part of the evaluation of bids by Canada will be classified as "SECRET".

3.3 All mandatory survivability requirements must be met through the submission of a proof of compliance consisting of a 3<sup>rd</sup> Party Test Report(s) which clearly provides all of the information required in the prescribed standard and/or NATO publication as provided in Part 7, Annex B, Attachment BA-6. No equivalency will be permitted. Failure to meet any of these requirements will render the bid non-responsive.

3.4 For those rated requirements to which the Bidder is responding, in order to be awarded points, the bidder must submit only one POC for each requirement. There are three possible POC options: 3<sup>rd</sup> Party Test Report **or** 3D Numerical Simulation Report **or** Technical Report. Each requirement identifies in the POC column which POCs are permissible. Note that only the provision of a 3<sup>rd</sup> Party Test Report will provide the Bidder with the opportunity to obtain 100% of the points available for the requirement. In all cases, however, the Bidder must refer to the standards/NATO publications provided as references in order to prepare the reports (whichever one is selected); no equivalency is permissible. Scores will be calculated in accordance with the methodology described at Part 4, Attachment 5, Schedule 5-1.

#### 3.5 **POC - 3<sup>rd</sup> Party Test Report.**

3.5.1 In addition to the specific details noted below, all 3<sup>rd</sup> Party Test Reports on an appropriate test target (para 3.8) shall include the technical details on the various

protective materials, name of testing organization, test description, test parameters and conditions and test results.

3.5.2 3<sup>rd</sup> Party Test Report - Ballistic Test. This report shall include the results of all four phases (phase 1 - test plan definition, phase 2 - main area ballistic evaluation, phase 3 - structural weak area and excluded zone vulnerability evaluation, and phase 4 - vulnerable area evaluation) as described in para 3 of NATO AEP 55 Vol 1, and should contain the information shown at para 5.9 of NATO AEP 55 Vol 1. As minimum, the following information for phases 2 and 3 shall be documented:

- Date and place of trial and protection levels tested.
- Target type (fully engineered or vehicle) and aim zone (Main area with or without localized weak area in phase 2 or structural weak area with or without localized weak area in phase 3).
- For each shot, approximate location of impact, intended and actual striking velocities obtained, partial or complete penetration, FAIR or UNFAIR impact, accepted or rejected impact.
- For each test series, indication of compliance with minimum specified ballistic performance requirements.
- When applicable, justification of reduction of the number of test rounds according to Table 3 in para 3.3.5 of NATO AEP 55 Vol 1. The substantiation for the reduction of the number of shots shall include notes on target damage e.g. bulge and cracks.

3.5.3 3<sup>rd</sup> Party Test Report - Mine Test. This report shall be prepared in accordance with Annex F of NATO AEP 55 Vol 2, and the report shall include all of the information listed there. The only permitted deviations are the details regarding the surrogate mine booster and x-rays of the explosive charge (if applicable). Additionally, the report shall include a substantiation for the selection of the worst case mine location (for both under wheel and under belly), data defining the ground clearance and center of gravity of the test item.

3.5.4 3<sup>rd</sup> Party Test Report - IED Test. This report shall be prepared in accordance with the instructions provided at Part 7, Annex B, Attachment BA, Schedule BA-6-1.

### 3.6 **POC - Numerical Simulation Report**

3.6.1 The 3D Numerical Simulation analysis shall be conducted using interactive hydrocodes software.

3.6.2 The 3D Numerical Simulation report shall include, as a minimum, the name of the hydrocodes program, description of the armour materials and assembly methods, armour materials technical data, weight analysis, description of the numerical set-up (geometry, mesh, loading, type of elements, element size, boundary conditions, transitional elements (if applicable)), list of assumptions, validation method, results including illustrations, discussion, and conclusions.

### 3.7 **POC - Technical Report**



- 3.7.1 The Technical Report shall describe the armour materials, manufacturing techniques, assembly methodology, and the series of lab tests and associated results performed as part of the Bidders' development programs.
- 3.7.2 Research and Development (R&D) test results obtained using single plate targets or minimum engineered targets as described in para 4.8 of NATO AEP 55 Vol 1 will be accepted. Injury analysis is not required.

### 3.8 **Test Targets**

- 3.8.1 For the ballistic testing, test targets used must have been fully engineered targets or vehicle targets as described in para 4.8 of NATO AEP 55 Vol 1.
- 3.8.2 For the mine testing, the target used must have been an engineered vehicle that is representative of a typical vehicle as described in para 3.1 of NATO AEP 55 Vol 2. This will encompass geometry, structure (including wheel and suspension system and seating system), material, and mass, as well as centre of gravity.
- 3.8.3 For the IED testing, the target used must have been as specified in Annexes A and B of Part 7, Annex B, Attachment BA-6, Schedule BA-6-1 (MSVS APS Survivability Testing Methodology).

## 4.0 **Interactive Electronic Technical Manual (IETM)**

- 4.1 Appendix BC and Attachment BC-1 of Part 7 list the mandatory and rated requirements for the Interactive Electronic Technical Manual (IETM).
- 4.2 The Bidder shall respond to all technical requirements in Appendix BC and its corresponding attachments in accordance with the "Proposal Compliance Method (PCM)" column. The PCM column identifies the type of response required in the proposal to satisfy requirements. There are two types of compliance methods in the PCM column as follows:
  - 4.2.1 Statement of Compliance (SOC): The Bidder shall provide a signed copy of its proposal certification (Part 5, Attachment 2 – Certificate of Compliance) to indicate compliance to all requirements identified as SOC; and
  - 4.2.2 Proof of Compliance (POC): For each requirement that requires Proof of Compliance (POC), the Bidder shall provide the following information to prove compliance:
    - a. Sample IETM(s) that demonstrate all of the requirements; or
    - b. If the Bidder cannot provide a sample IETM(s) to demonstrate a requirement, the Bidder shall provide proof that it is capable of meeting the requirement.
- 4.3 The Bidder should provide installation and operating instructions for its sample IETM(s).
- 4.4 If multiple IETMs are provided, the Bidder should provide a cross reference table that links each requirement with the IETM that demonstrates it.
- 4.5 It is not essential for the Bidder to propose any of the rated requirements for the IETM. The Bidder will be awarded marks to be used in the technical score calculation based on its response to rated requirements. The Bidder should clearly indicate which of the IETM rated requirements it is proposing by simply writing "YES" or "NO" (A "YES" meaning that

the Bidder is effectively responding to that specific rated requirement) in the “Bidder’s Response to the Rated Requirement” column and submit Part 7, Attachment BC-1 as part of its proposal response package.

## **5.0 Technical Compliancy Program (TCP)**

### **5.1 Overview**

5.1.1 The Technical Compliancy Program (TCP) will be conducted by Canada during the bid evaluation phase to verify that the Vehicle, APS and Trailer meet selected technical requirements detailed in Part 7, Appendix BA and its corresponding attachments.

5.1.2 The TCP will be comprised of the following components:

- a. Configuration Audit
- b. Performance Testing (TEST)
- c. Human Factors Evaluation (HFE)

5.1.3 The equipment is expected to accumulate approximately 10,000 km to 15,000 km during the entire TCP.

5.1.4 During the TCP, a minimum of one FSR should be on site at all time during the conduct of the TCP but they will not be allowed to witness any tests of the equipment that belongs to the Bidder they represent neither any tests performed on the other Bidders’ equipment.

5.1.5 The TCP will be conducted in the English language. At least one Bidder representative should be able to communicate in the English language.

### **5.2 Equipment**

5.2.1 The Bidder shall deliver and unload the Test Articles below identified at a., b., and c. below to NATC no later than the time and date indicated in Part 6, Article 5:

- a. One (1) Cargo variant representative of the proposed vehicle;
- b. One (1) Load Handling System (LHS) variant representative of the proposed vehicle, with a representative (for weight and weight distribution only) APS installed; and
- c. One (1) LHS Trailer representative of the proposed Trailer.

5.2.2 The Test Articles should be delivered complete with the equipment and operator’s tools (Part 7, Annex B, Appendix BA, Attachment BA-1) as proposed in the bid.

5.2.3 The Bidder should contact the CA prior to the delivery of the Test Articles and equipment in order to facilitate delivery. At the same time, the Bidder should also provide their Test Articles’ maximum payload capability for the rated payload requirement during testing. It is strongly recommended that the Test Articles arrive at NATC a week prior to the date indicated at Part 6, Article 5. The Test Articles

delivered for the TCP shall arrive ready for testing; this includes having the brakes already burnished prior to arrival (vehicles and trailer). Upon reception of the equipment above, NATC will perform an inspection of the equipment to ensure nothing is missing and no damage occurred during transportation. Once delivered to NATC, NATC will also do a safety check to ensure that the vehicles and trailer are in suitable mechanical condition for the evaluation and identify any existing issues. During the safety check, it is recommended that the Bidders' FSR be present.

- 5.2.4 Upon completion of the TCP, the Bidder shall remove all of its equipment from NATC.
- 5.2.5 The vehicles listed in paragraph 5.2.1. a and b shall, at a minimum, include the same key configuration characteristics as the vehicles proposed as a Deliverable End Item (DEI) and priced in the bid. This will be inspected as part of the Configuration Audit, and monitored prior to and during the TCP. The key configuration characteristics of the vehicles shall, as a minimum, include the:
- a. Standard cab (Cargo variant only);
  - b. Representative (for weight and weight distribution only) Armour Protection System (APS) cab (LHS variant only);
  - c. Cab seating;
  - d. Engine platform;
  - e. Transmission;
  - f. Transfer case;
  - g. Axles;
  - h. Wheel rims and tires (including 1 spare mounted on the spare wheel carrier assembly);
  - i. Suspension components;
  - j. Spare wheel carrier assembly;
  - k. Cargo Bed Access (rear) – Cargo variant only;
  - l. Curb weight with APS (LHS variant only);
  - m. Curb weight with standard cab (cargo variant only);
  - n. Axle loads measured at curb weight with APS cab (LHS Variant only); and
  - o. Axle loads measured at curb weight with standard cab (cargo Variant only).
- 5.2.6 The trailer listed in paragraph 5.2.1.c shall include the same key configuration characteristics as the Trailer that the Bidder is proposing in its RFP response. This will be inspected during the Configuration Audit, and monitored prior to and during the TCP. The key configuration characteristics of the trailer include:

- a. Make and model;
- b. Wheel rims and tires; and
- c. Curb weight.

### 5.3 TCP Documentation

For TCP evaluation purposes only, in order to facilitate the configuration audit, the Bidder should provide the information listed in 5.3.1 below for each Test Article delivered to NATC. The information should include a cross reference list which indicates the location in their proposal where the Test Article descriptions in paragraph 5.3.1 and 5.3.2 below can be verified. This documentation should be located in the cab of the Cargo Variant vehicle (i.e. for both vehicles and the trailer). If any of the information is not provided as required, the Contracting Authority will so inform the Bidder and provide the Bidder with a timeframe within which to meet this requirement. Failure to comply with the request within the time period will render a bid non-compliant.

5.3.1 For each vehicle delivered at NATC, include the following information:

- a. Standard Cab: (spec sheet, product brochure or similar descriptive means that identify the cab configuration and features, and by which to identify the cab on the test article, as compared to the proposal.);
- b. APS Cab: (spec sheet, product brochure or similar descriptive means that identify the cab configuration and features, and by which to identify the cab on the test article, as compared to the proposal.);
- c. Cab seating: (spec sheet, product brochure or similar descriptive means that identify the cab configuration and features, and by which to identify the cab seating on the test article, as compared to the proposal.);
- d. Engine platform: (spec sheet, including the engine make, model number);
- e. Transmission: (spec sheet, including the make and model number);
- f. Transfer case: (spec sheet, including the make and model number);
- g. Axles: (spec sheet, including the make and model number);
- h. Wheel rims / tires: ( spec sheet, including the make and model number);
- i. Suspension components: (spec sheet, product brochure or similar descriptive means that identify the suspension main components, configuration and features, and by which to identify the main suspension components on the test article, as compared to the proposal.);
- j. Spare wheel carrier assembly: (spec sheet, product brochure or similar descriptive means that identify the configuration and features, as compared to the proposal.);
- k. Cargo bed access (rear); (Technical drawings, pictures, or similar descriptive means to identify the configuration and features, as compared to the proposal)
- l. Variant;
- m. Serial number (VIN);
- n. Gross Vehicle Weight Rating (GVWR);
- o. Gross Combination Weight Rating (GCWR);
- p. Gross Axle Weight Rating (GAWR) for each axle;
- q. Location of the centre of gravity at Curb Weight (CW);
- r. Model and weight of APS (if applicable); and
- s. Curb Weight (CW).

5.3.2 For the trailer delivered at NATC, include the following information:

- a. Make and model;
- b. Wheel rims / tires: (spec sheet, including the make and model number);
- c. Curb Weight (CW);
- d. Gross Trailer Weight (GTWR); and
- e. Location of the center of gravity at CW.

#### 5.3.3 Additional Information

The Bidder should also provide the following information with the Bid, or upon request by the CA:

- a. a list of all radioactive source equipment that was or will be shipped with the Test Articles. If there is no radioactive source equipment Bidders are to indicate "No radioactive source equipment was or will be shipped.";
- b. a list of any limitations on requirements / specifications such as, but not limited to, maximum speed, ground clearance, fording depth, that in the Bidders opinion could restrict testing during the TCP. If there are no limitations to testing, Bidders are to indicate "No Limitations"; and
- c. a settings checklist (e.g. ride height setting, CTIS setting), with associated step-by-step procedures, for vehicle settings that are applicable to each TCP Test. The settings and procedures must be consistent with settings that would be employed during operation of the vehicle and must be able to be completed from **CREW** positions.

#### 5.4 Bidder Support

5.4.1 The Bidder will be responsible to provide the necessary support as required throughout the entire TCP but not limited to:

- a. Equipment operator training;
- b. Parts manual;
- c. Operator's manual;
- d. Maintenance manual;
- e. Field Service Representatives (FSRs) for technical and maintenance support (up to a maximum of 5);
- f. Conduct daily driver's maintenance as well as preventive maintenance if required (IAW the equipment preventive maintenance schedule) and corrective maintenance;
- g. Tool box;
- h. Spare parts and tooling (up to a maximum of two 20' ISO containers);
- i. Fluids (less fuel) with associated Material Safety Data Sheets (MSDS);
- j. Special Tools and Test Equipment (STTE);
- k. Service lamps to support night-time maintenance operations; and
- l. Tow bar, A-frame and adapters, and any other specialty equipment required for vehicle recovery in the event it becomes immobile.

5.4.2 Portions of the TCP may be conducted on public roads; therefore, the Bidder is responsible to insure their vehicles for operation on public roads in the state of Nevada.

- 5.4.3 Temporary visits by additional Bidder personnel will be allowed during the TCP, but they must be approved by the CA at least one day in advance of the visit date.
- 5.4.4 Bidder personnel must obey all rules established by NATC while on site. Failure to abide by the rules could result in permanent removal of personnel from the NATC facility.
- 5.4.5 The Bidder is responsible for all costs associated with the support described in paragraph 5.4.

## **5.5 Test Centre Support**

- 5.5.1 In order to adequately support the TCP, the NATC will provide the following resources:
  - a. Experienced Drivers with associated Test Articles' weight class credentials;
  - b. Personnel to ensure only the required and authorized work is being performed in the workshop and in a safe manner;
  - c. Workshop support (25 ton crane, air, jacks, partitions, etc...);
  - d. Maintenance bay allocation, if required;
  - e. Space for two 20' ISO Containers (or equivalent) for spare parts and tooling for each Bidder;
  - f. One office space for all bidders with internet, fridge, etc;
  - g. One private room available on demand for private calls and discussions; and
  - h. Payload set up for the vehicle and trailer center of gravity.
- 5.5.2 NATC will have the following equipment and services available in the Maintenance Bay on an as and when required basis:
  - 110/220/480 AC single and three phase electrical power
  - 150 psig compressed air supply
  - water outlets
  - 25 ton crane
  - Jacks
  - 10' X 8' Fixture Table
  - Wash bay
  - Welding facility and AWS certified welders
  - Vertical Milling Machines
  - AC/DC Arc (Electrode)
  - Lathes
  - Gas (Oxygen/Acetylene)
  - Belt Sander
  - Grinder
  - MIG (wire feed)
  - Multiple Bandsaws
  - TIG (Aluminum)
  - Shears
  - Brakes
  - CNC Plasma Table
  - Metal Punch
  - Jet Carbon or Air Arc Cut
  - Tubing Bending
  - Hypertherm Max 100

- Radial Arm Drill Press
- 15 ton 24 ft span, 20 ft lift, 75 ft runway bridge crane
- 2 ton over head trolley
- Mobile 200 amp welder and a 2 ton platform truck with compressed air service, oxyacetylene welders, and a full set of hand and power tools
- Various wrecker and recovery equipment

The equipment/services above will be provided upon request by bidders, and upon approval by the TA, in accordance with the Maintenance Standard Operating Procedure which will be promulgated prior to the TCP. All equipment that is considered as shared resources (including the Maintenance Bays), and/or conflicts with equipment availability will be managed on a case by case basis by the TA.

## **5.6 Information / Data Collection**

- 5.6.1 During the initial inspection of the vehicles, trailer and APS, and throughout the conduct of the TCP, various technical information / data will be collected on the equipment.

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 3 – Attachment 3 – Technical Proposal Preparation Instructions

Section 2 – Acquisition Proposal Preparation Instructions

Schedule 2-1 – Not Used



**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 3 – Bid Preparation Instructions

Attachment 3 – Technical Proposal Preparation Instructions

Section 3 – ISS Proposal Preparation Instructions

## **1. Technical Proposal**

- 1.1 Technical requirements are found in Appendix BE of the SMP ISS Model Contract (Part 8).
- 1.2 Compliance to all mandatory requirements of Part 8, Annex B, Appendix BE will be achieved by the signature of the Certification of Compliance (as per Article 2.4 to Part 5).

## **2. Life Cycle Costing**

- 2.1 Canada will evaluate Life Cycle Costing for the Cargo and LHS variants and for certain APS elements. The Bidder shall submit data and costing information to permit Canada to calculate a comparative Life Cycle Cost over the 20-year service life of the equipment being proposed IAW Part 3, Attachment 3, Section 3, Schedule 3-2, Life Cycle Costing Bidder Data Requirements.

## **3. ISS Plan**

- 3.1. The Bidder shall submit a draft ISS Plan IAW DID SMP-ISS-001.

## **4. Corporate Experience and Capability**

- 4.1 Corporate Experience guidelines.

- 4.1.1 The Bidder shall submit Corporate Experience and Capability documents as described below.

- a. The Bidder should specify the name of the entity whose experience is being submitted for evaluation (i.e., whether the experience is that of the Bidder, the parent organization, a subcontractor, partner etc.). In addition, in the event that the Bidder is using the experience of a parent, sister or subsidiary organization, or of a subcontractor or partner, the Bidder should clearly indicate under each type of experience below, as applicable, that it has a teaming agreement or contract with this entity.
- b. For the purpose of this solicitation, a Team Member is any entity that the Bidder is proposing to perform work or to provide experience to meet the requirement subject to point rating. Team Members under this solicitation can include subcontractors, joint venture partners, partners, parent organization, sister organization and any subsidiary organization.

- 4.1.2 Corporate Experience will be considered as follows:

- (i) Experience listed without providing any supporting data to describe where, how and by whom such experience was obtained will result in the experience not being included for evaluation purposes.
- (ii) Except where expressly provided otherwise, Team Members or Individuals cannot pool their experience to satisfy any single point rated requirement of this solicitation. Wherever substantiation of a point rated requirement is required, the Bidder is requested to indicate which team member or individual satisfies the requirement.

Example:

A bidder is a joint venture consisting of members X, Y and Z. If a solicitation requires: (a) that the bidder have 3 years of experience providing maintenance

services, and (b) that the bidder have 2 years of experience integrating hardware with complex networks, then each of these two requirements can be met by a different member of the joint venture. However, for a single requirement, such as the requirement for 3 years of experience providing maintenance services, the bidder cannot indicate that each of members X, Y and Z has one year of experience, totaling 3 years. Such a response would be declared non-compliant. (Note: this example is not specific to this solicitation and does not relate to the requirements of this solicitation - it is provided only for illustrative purposes.)

- (iii) The corporate experience being put forward by the Bidder must be work for which the Bidder was directly responsible. Corporate experience as a result of work carried out by a parent organization, any sister organization and/or any subsidiary organization that may be associated with the Bidder or joint venture member or general partner of the Bidder, as applicable will only be considered if the experience is accessible to the Bidder and the Bidder can rely upon and use the experience of the Team member throughout the performance of any resulting Contract.
- (iv) Only direct experience of the Bidder's subcontractors or limited partners (where the Bidder is a limited partnership) can be considered for purposes of determining the Bidder's Corporate Experience and Capability specified herein provided that the subcontractor or limited partner whose experience is being presented for evaluation will be actively responsible for delivery of these services for which the experience relates under any resulting Contract..
- (v) The Bidder submitting the bid may, however, consist of several firms or individuals putting one bid together as a joint venture or a partnership. In the case of such a joint venture or partnership, except as specified otherwise herein, the experience of the firms or individuals forming the joint venture or partnership will be considered in determining the Bidder's Corporate Experience and Capability detailed below, subject to the limitations outlined in the above example.

## 4.2 Types of Corporate Experience

### 4.2.1 Corporate ISS Experience

The Bidder shall demonstrate a track record of previous ISS work on projects for trucks similar in size to the SMP truck, and fleet sizes of not less than 500 vehicles, over the past 10 years. The summary for each such contract should be provided on separate pages (maximum 4 pages each). The template provided as Schedule 3-4 to this Attachment 3 should be used. This should include:

1. Project Management services, specifically project performance management;
2. Support equipment, Spares, Special Tools and Test Equipment (STTE) delivery management;
3. Repair and Overhaul (R&O) services;
4. Major Repair Program (MRP) for vehicles and trailers that sustained structural damage;
5. Field Service Representative (FSR) Support;
6. Engineering Support; and
7. Electronic Information Environment (EIE).

The Bidder shall provide at least two client references per project identified. References should contain a point of contact, full mailing address, name and phone number.

#### 4.2.2 Experience with Performance-Based Contracting

The Bidder shall provide sufficient details for a minimum of one project, within the last 10 years, that demonstrates performance-based contracting experience, to allow Canada to assess and evaluate its experience, capability and relevance to performance-based contracting. This should include:

1. An established framework consisting of methods and tools routinely used to validate the objectives and goals identified as part of the Performance Based contract, i.e. benchmarking, etc.
2. Performance metric report, plan or database detailing performance metrics used in the contract, performance levels and achieved performance for at least four quarters for at least two metrics;
3. Time frame of Performance Based Contract work; and
4. At least two client references per project identified. References should contain point of contact, full mailing address, name and phone number.

#### 4.2.3 Experience with R&O of Defence Systems

The Bidder shall provide sufficient details to allow Canada to assess and evaluate its experience and capability to maintain a fleet of 500 or more 2.5 Ton or heavier trucks for 5 years or more within the last 15 years relevant to R&O. This should include:

1. Details of the R&O facilities, capacity of machinery, equipment and tools;
2. Method, approach and practices of R&O similar to DND/CF; and
3. Time frame of R&O work done.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 3, Attachment 3 – Technical Proposal Preparation Instructions

Section 3 – ISS Proposal Preparation Instructions

Schedule 3-2 Life Cycle Costing (LCC) Bidder Data Requirements

1. **GENERAL**

- 1.1. In order to be awarded points for the Life Cycle Cost (LCC) portion of the Technical Evaluation (Part 4, Attachment 5, Section 4, Tables 12) and a financial score for the Financial Evaluation, the Bidder must complete the tables provided at Part 3, Attachment 3, Section 3, Schedule 3-3 in their entirety. These tables require the bidder to submit complete data and costing information to permit the calculation of the bidder's comparative Life Cycle Cost (LCC) to DND over the 20-year service life of the equipment being proposed. Canada reserves the right to request substantiation of all data received. The Comparative LCC calculation is detailed at Part 4, Attachment 5, Section 3, Schedule 5-5.
- 1.2. The Bidder shall ensure that all LCC data provided in response to this RFP is accurate, complete and substantiated with applicable supporting documents such as Reliability, Availability, Maintainability, Durability (RAMD) test reports or actual usage reports or predicted IAW the requirements of this Schedule 3-2.
- 1.3. Deleted
- 1.4. Supporting data need not be submitted with the bid but shall be available for submission or inspection if requested.
- 1.5. The expected rates of failure that are submitted as part of the Proposal for evaluation purposes will not be used to measure the reliability of the vehicle.

2. **LCC COST DRIVERS - REQUIRED INPUT DATA:**

- 2.1. The cost factors to be utilized in determining a Bidder's LCC will be based on estimated Fuel consumption, Preventive and Corrective maintenance and Initial Provisioning of spares costs.
- 2.2. The Bidder shall provide unit (item) price in Canadian Dollars.
- 2.3. The Bidder's vehicle warranty will be factored in the calculations.
- 2.4. The Bidder shall submit data in hardcopy using the format of the tables provided at Part 3, Attachment 3, Section 3, Schedule 3-3 LCC Input Data. For example purposes, the tables are filled with sample data. Bidders are to delete the populated sample data, except for the Maintenance Significant Items (MSI) Name in the Corrective Maintenance Tables, and insert their actual data.
- 2.5. **Fuel Costs**  
In order to determine the fuel consumption characteristics of the vehicle, DND will perform fuel consumption tests IAW Part 4, Attachment 5, Schedule 5-2, Test Matrix on the Demo/Test Vehicle to determine the average fuel consumption (litres/100km) for DND specific usage. No Bidder data is required.
- 2.6. **Preventive Maintenance Parts Costs and Labour Hours**
  - 2.6.1. Preventive Maintenance Data is to be based on the vehicle equipped with the Bidder's proposed (Mandatory and Rated Items) systems, sub-systems and components where applicable for the Cargo variant.
  - 2.6.2. The Preventive Maintenance Tasks (PMT) are all tasks that are scheduled events incurring part or labour costs based upon mileage or calendar time (e.g. inspections, oil changes, etc.). The Bidder shall assume service intervals based on the usage patterns as per the MSVS SMP Mission Profile Appendix BH-1 under the ISS Contract. The PMT parts are those items that are replaced during a PMT action. The PMT labour

hours are those labour hours associated with the performance of the specific PMT. PMT part costs, labour hours and mileage/calendar schedule shall be reported for each preventative maintenance action required throughout the life of the equipment.

- 2.6.3. All identified PMTs shall be traceable to tasks or repair time schedules in technical manuals (e.g. Operator Manual, Standard Repair Time, etc.).
- 2.6.4. The Bidder shall use Scheduled and Preventive Maintenance Table IAW Schedule 3-3 as a template to capture preventive maintenance data: the expected occurrence of preventive maintenance tasks, the expected labour time per occurrence and the expected task material costs. For each task, the mileage and/or calendar time shall be entered.

## 2.7. **Corrective Maintenance Costs**

- 2.7.1. Corrective Maintenance Tasks are those tasks that result in the repair or replacement of a non-functioning Maintenance Significant Item (MSI).
- 2.7.2. Corrective Maintenance Data shall be based on the vehicle equipped with the Bidder's proposed (Mandatory and Rated Items) systems, sub-systems and components where applicable.
- 2.7.3. The replacement labour hours are defined as the total time it takes to access the target MSI, remove it from the vehicle, replace it with a functioning unit and test, align, calibrate etc., the new installation.
- 2.7.4. A MSI failure is defined as a malfunction requiring corrective maintenance that incurs part or labor costs. Both equipment repair and replacement are considered corrective maintenance actions.
- 2.7.5. For the purpose of this calculation, the following three classes of Mean Kilometer Between Failure (MKBF) data are defined:
  - 2.7.5.1. Actual (A): data obtained from sources such as real-world usage, system level RAMD testing.
  - 2.7.5.2. Lab (L): data derived from component-level testing (controlled environment, test-stand testing).
  - 2.7.5.3. Predicted (P): data generated from best engineering judgment, comparison with analogous systems.
- 2.7.6. The Bidder shall use Corrective Maintenance Cargo Table, Corrective Maintenance LHS Table and Corrective Maintenance APS Table IAW Schedule 3-3, as templates to capture General Data for the Maintenance Significant Items for the Cargo variant, LHS variant, and APS respectively (for example purposes only, Tables are filled with sample input). Comments are provided for select table headings for explanation. The tables are divided into three sections as follows:
  - 2.7.6.1. Section A: Cost and Warranty Data. For each MSI the Bidder shall input:

- 2.7.6.1.1. Unit Cost: the cost of procuring (new) unit of the MSI in Canadian Dollars (\$). Input must be greater than zero.
- 2.7.6.1.2. Quantity: the number of the MSI in the vehicle.
- 2.7.6.1.3. Warranty Information: if the MSI has an extended Original Equipment Manufacturer flow-through warranty, enter the warranty information (kilometers and months).

2.7.6.2. Section B: Reliability Data

- 2.7.6.2.1. In the case of the Cargo and LHS variants, the Bidder shall enter the MKBF and its Origin of Data (OoD): Lab (L) testing, Actual (A) usage, or Predicted (P). To justify actual (A) or lab (L) testing, the Bidder must provide:
  - 2.7.6.2.1.1. Number of kilometers tested.
  - 2.7.6.2.1.2. Number of failures observed.
- 2.7.6.2.2. In the case of the APS, the Bidder shall enter the Mean Time Between Failures (MTBF) in hours (hrs) and its Origin of Data (OoD): Lab (L) testing, Actual (A) usage, or Predicted (P). To justify actual (A) or lab (L) testing, the Bidder must provide:
  - 2.7.6.2.2.1. Number of hours tested.
  - 2.7.6.2.2.2. Number of failures observed.

2.7.6.3. Section C: Failure Data

- 2.7.6.3.1. The Bidder shall enter the Discard Fraction (DF) which is the percentage of failures where the MSI needs to be removed and replaced. The DF must be greater than zero. To justify the DF, the Bidder shall provide the following MSI failure data (the ratio of which should equal the DF):
  - 2.7.6.3.1.1. the number of times the MSI was repaired.
  - 2.7.6.3.1.2. the number of times the MSI was discarded.
- 2.7.6.3.2. For MSI replacement, the Bidder shall enter the estimated labour hours required (most-likely and maximum). Input must be greater than zero.
- 2.7.6.3.3. For MSI repair, the Bidder shall enter the estimated part costs (most-likely and maximum) and the estimated labour hours (most-likely and maximum). Input must be greater than zero.

**2.8. Initial Provisioning of Spares Cost**

- 2.8.1. No additional data is required from the bidder; rather, the required data will be taken from the tables already provided by the bidder for the preceding preventive and corrective maintenance calculations.



Standard Military Pattern

Medium Support Vehicle System

Request for Proposal  
W8476-06MSMP/L

Part 3, Attachment 3, Technical Proposal Preparation Instructions

Section 3 - ISS Proposal Preparation Instructions

Schedule 3-3 - LCC Input Data

## SCHEDULED AND PREVENTIVE MAINTENANCE

**TOTAL NUMBER OF TASKS:** 5

Preventive Maintenance Data -MSVS SMP									
TASK ID	Description	MKBPM	MMBPM	Labour Hours	Parts Description	Part Number	Quantity	Item Price	Total Material Cost for Task
00001	misc. Task	1000	6	1.00	Engine Oil	TBD	4	\$1.00	
Comments:					Oil Filter Kit	TBD	1	\$3.00	
									\$7.00

Where:  
MKBPM: Mean Km Between Preventive Maintenance  
MMBPM: Mean Month Between Preventive Maintenance

Preventive Maintenance Data -MSVS SMP									
TASK ID	Description	MKBPM	MMBPM	Labour Hours	Parts Description	Part Number	Quantity	Item Price	Total Material Cost for Task
00002	Example 2 Task	250	36	12.50	misc part	54	1	\$5.00	
Comments:					different part	6873	6	\$5.00	
					tiny part	1223	12	\$1.00	
									\$47.00

Preventive Maintenance Data -MSVS SMP									
TASK ID	Description	MKBPM	MMBPM	Labour Hours	Parts Description	Part Number	Quantity	Item Price	Total Material Cost for Task
00003	different task	5000	12	5.50	Misc. Oil	TBD	5	\$4.25	
Comments:					misc part	TBD	1	\$55.00	
					misc washer	TBD	12	\$9.00	
					Misc Gasket	TBD	10	\$12.50	
									\$309.25

Preventive Maintenance Data -MSVS SMP									
TASK ID	Description	MKBPM	MMBPM	Labour Hours	Parts Description	Part Number	Quantity	Item Price	Total Material Cost for Task
00004	different task	12500	24	8.00	Misc. Oil	TBD	10	\$3.25	
Comments:					misc part	TBD	3	\$55.00	
					misc washer	TBD	12	\$9.00	
					Misc Gasket	TBD	10	\$12.50	
									\$430.50

Preventive Maintenance Data -MSVS SMP									
TASK ID	Description	MKBPM	MMBPM	Labour Hours	Parts Description	Part Number	Quantity	Item Price	Total Material Cost for Task
00005	different task	5000	12	1.25	Misc Gasket	TBD	20	\$2.50	
Comments:					misc part	TBD	1	\$42.00	
					misc washer	TBD	12	\$9.00	
									\$200.00

## CORRECTIVE MAINTENANCE CARGO

| H | I | J | | M | N |

General Data for Maintenance Significant Items (MSI) for MSVS SMP CARGO																
A) Cost and Warranty Data				B) Reliability Data				C) Failure Data: Remove / Replace / Repair								
MSI Name	Unit Cost (new procurement)	Qty	Warranty  Months	MKBF	Justification			Discard Fraction			Remove & Replace Time (Hrs)		Repair: Parts and Labour			
					L/A/P	km	Failures	%	# Repairs	# Discards	Exp.	Max	Exp.	Max	Exp.	Max
Alternator	\$1,000	1	12	100,000	L	200,000	2	1	99	1	2.00	3.00	10.00	15.00	4.00	6.00
Axle, Rear	\$1,100	1	12	100,000	P			95	10	190	2.00	3.00	10.00	15.00	4.00	6.00
Axle, Front	\$1,200	1	12	100,000	A	300,000	3	75	1	3	2.00	3.00	10.00	15.00	4.00	6.00
Axle, Intermediate	\$1,300	1	12	100,000	P			50	500	500	2.00	3.00	10.00	15.00	4.00	6.00
Battery	\$1,400	2	12	100,000	L	200,000	2	100	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Brake Drum/Disc	\$1,500	1	12	100,000	P			50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Brake Shoe/Pad	\$1,600	1	12	100,000	A	300,000	3	50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Compressor	\$1,700	1	12	100,000	P			50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Coolant pump	\$1,800	1	12	100,000	P			50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Drive Shaft, Front	\$1,900	1	12	100,000	L	200,000	2	50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Drive Shaft, Intermediate	\$2,000	1	12	100,000	P			50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Drive Shaft, Jack	\$2,100	1	12	100,000	A	300,000	3	50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Drive Shaft, Rear	\$2,200	1	12	100,000	P			50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Engine	\$2,300	1	12	100,000	P			50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Shocks	\$2,400	4	12	100,000	L	200,000	2	50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Starter	\$2,500	1	12	100,000	P			50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Tires	\$2,600	4	12	100,000	A	300,000	3	50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Transfer Case Assy	\$2,700	1	12	100,000	P			50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Transmission	\$2,800	1	12	100,000	P			50	0	0	2.00	3.00	10.00	15.00	4.00	6.00
Turbocharger	\$2,900	1	12	100,000	L	200,000	2	50	0	0	2.00	3.00	10.00	15.00	4.00	6.00

**Additional Instructions:**

1. If "P" is inputted in column H then corresponding columns I and J should remain empty
2. All other cells must be populated with correct figures
3. Enter "0" for # of repairs (column M) and # of discards (column N) if the Discard Fraction is estimated

## CORRECTIVE MAINTENANCE LHS

H | I | J | M | N |

General Data for Maintenance Significant Items (MSI) for MSVS SMP LHS																	
A) Cost and Warranty Data				B) Reliability Data				C) Failure Data: Remove / Replace / Repair									
MSI Name	Unit Cost (new procurement)	Qty	Warranty  Months		MKBF	Justification			Discard Fraction			Remove & Replace Time (Hrs)		Repair: Parts and Labour Part Costs		Labour Hours	
						L/A/P	km		Failures	%	# Repairs	# Discards	Exp.	Max	Exp.	Max	Exp.
Alternator	\$1,000	1	12		100,000	L	200,000	2	1	99	1	5.00	8.00	300.00	900.00	4.00	6.00
Axle, Rear	\$1,000	1	12		100,000	P			95	10	190	5.00	8.00	300.00	900.00	4.00	6.00
Axle, Front	\$1,000	1	12		100,000	A	300,000	3	75	1	3	5.00	8.00	300.00	900.00	4.00	6.00
Axle, Intermediate	\$1,000	1	12		100,000	P			50	500	500	5.00	8.00	300.00	900.00	4.00	6.00
Battery	\$1,000	2	12		100,000	L	200,000	2	100	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Brake Drum/Disc	\$1,000	1	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Brake Shoe/Pad	\$1,000	1	12		100,000	A	300,000	3	50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Compressor	\$1,000	1	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Coolant pump	\$1,000	1	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Drive Shaft, Front	\$1,000	1	12		100,000	L	200,000	2	50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Drive Shaft, Intermediate	\$1,000	1	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Drive Shaft, Jack	\$1,000	1	12		100,000	A	300,000	3	50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Drive Shaft, Rear	\$1,000	1	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Engine	\$1,000	1	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Hydraulic cylinders	\$1,000	2	12		100,000	L	200,000	2	50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Hydraulic motor	\$1,000	1	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Hydraulic pump	\$1,000	1	12		100,000	A	300,000	3	50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Hydraulic valves	\$1,000	2	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Shocks	\$1,000	4	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Starter	\$1,000	1	12		100,000	L	200,000	2	50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Tires	\$1,000	4	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Transfer Case Assy	\$1,000	1	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Transmission	\$1,000	1	12		100,000	L	200,000	2	50	0	0	5.00	8.00	300.00	900.00	4.00	6.00
Turbocharger	\$1,000	1	12		100,000	P			50	0	0	5.00	8.00	300.00	900.00	4.00	6.00

**Additional Instructions:**

1. If "P" is inputted in column H then corresponding columns I and J should remain empty
2. All other cells must be populated with correct figures
3. Enter "0" for # of repairs (column M) and # of discards (column N) if the Discard Fraction is estimated

## CORRECTIVE MAINTENANCE APS

| H | I | J | | M | N |

General Data for Maintenance Significant Items (MSI) for APS																		
A) Cost and Warranty Data					B) Reliability Data					C) Failure Data: Remove / Replace / Repair								
MSI Name	Unit Cost (new procurement)	Qty	Warranty  Months		MTBF (hrs)	Justification				Discard Fraction	Remove & Replace Time		Repair: Parts and Labour					
						L/A/P	Hr	Failures			%	# Repairs	# Discards	Exp.	Max	Exp.	Max	Exp.
Transparent Armour Windshield	\$25,000	1	12		300	A	3,000	10		75	1	3	5.00	8.00	300.00	900.00	4.00	6.00
Transparent Armour Door Window	\$25,000	2	12		300	A	3,000	10		75	1	3	5.00	8.00	300.00	900.00	4.00	6.00

**Additional Instructions:**

1. If "P" is inputted in column H then corresponding columns I and J should remain empty
2. All other cells must be populated with correct figures
3. Enter "0" for # of repairs (column M) and # of discards (column N) if the Discard Fraction is estimated

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 3, Attachment 3, Technical Proposal Preparation Instructions

Section 3 – ISS Proposal Preparation Instructions

Schedule 3-4 Corporate ISS Experience Template

### **BIDDER CORPORATE ISS EXPERIENCE HISTORY**

1. Project Title:
2. Project Value:
3. Support Contract Value:
4. Project Timeframe:
5. ISS Contract Timeframe:
6. Client:
  - a. Name
  - b. Title
  - c. Phone Number
  - d. Mailing Address
  - e. Internet Address
7. Project Description:
8. ISS Contract Description (describe your role in the contract and the support provided, including number and type (role) of individual support provided, duration of their support, involvement of contractor management, interface with PMO and assessment of the work performed, related to the following:
  1. Project Management services, specifically project performance management;
  2. Support equipment, Spares, Special Tools and Test Equipment (STTE) delivery management;
  3. Repair and Overhaul (R&O) services;
  4. Major Repair Program (MRP) for vehicles and trailers that sustained structural damage;
  5. Field Service Representative (FSR) Support;
  6. Engineering Support; and
  7. Electronic Information Environment (EIE)



# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 3 – Bid Preparation Instructions

Attachment 4 – Not used

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request for Proposal  
W8476-06MSMP/L

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 1 Introduction

- 1.1 The Evaluation Procedures and Basis of Selection define the process and methodology to be followed for the evaluation of proposals provided in response to this RFP. The following documents form part of Part 4 and are specified herein:
  - 1.1.1 Attachment 1: Not used
  - 1.1.2 Attachment 2: IRB Proposal Evaluation Plan
  - 1.1.3 Attachment 3: ISS Financial Evaluation Plan
  - 1.1.4 Attachment 4: Acquisition Scenarios Financial Evaluation Plan
  - 1.1.5 Attachment 5: Technical Proposal Evaluation Plan
- 1.2 All proposals will be evaluated in accordance with the RFP requirements and the evaluation plan to determine their responsiveness. A responsive proposal is a proposal that meets all the Mandatory requirements stipulated in this RFP document.
- 1.3 An evaluation team or teams composed of representatives of the Government of Canada will evaluate the bids. Canada reserves the right to employ consultants during the evaluation.

### 2 Evaluation Process

#### 2.1 Clarifications

During the proposal evaluation process, it may be necessary for the Contracting Authority to seek clarifications from Bidders in order to gain a better understanding of their proposals. A clarification is an explanation of some existing aspect of the proposal. If a clarification is requested, the Bidder must provide the information requested, in writing, within the period specified in the written clarification request.

#### 2.2 Proposal Evaluation

Canada will verify and evaluate the Bidder's proposal to the methods of compliance of the RFP. The documentation provided must be in sufficient detail to clearly demonstrate compliance with the requirement. If a bidder does not possess certain documentation or test results required under the method of compliance, then it is the bidder's responsibility to perform the necessary testing or analysis to obtain the required documentation or test results prior to bid closing. Unless otherwise stated, all documentation must be provided with the bid.

##### 2.2.1 Mandatory Requirements:

- 2.2.2 The mandatory requirements of this solicitation are signified by the words "**must**", "**shall**", "**will**", "**mandatory**" or by the phrase "**Canada requires**". Whether these words are in bold, underlined or straight text characters, they carry the same weight. Bidders shall comply with every mandatory requirement of this bid solicitation.

Canada will verify compliance of the Bidder's proposal to the mandatory requirements of the RFP IAW the method of compliance identified in various parts of this RFP.

In the event that any Bidder fails to comply with any of the mandatory requirements of this solicitation, the proposal shall be deemed non-responsive.

##### 2.2.3 Rated Requirements:

The rated requirements are evaluated using the published evaluation criteria and given a score. Rated criteria are used to assess various elements of the technical bid so that relative merit of each bid can be used to distinguish one bid from another. The rated criteria are signified by the word "rated".

#### 2.2.4 Technical Compliancy Program:

Canada will validate compliance to the method of compliance identified as “Test” or “HFE” in the technical requirements of Part 7, Annex B Appendix BA (and sub-parts thereof) by performing a Technical Compliancy Program (TCP). The TCP will be conducted in accordance with Section 2 of Attachment 5 to Part 4. The TCP will take place between bid closing and up to approximately eight (8) months after the Test Articles arrive at the Nevada Automotive Test Center (NATC) in Silver Springs, Nevada, USA.

### 2.3 **Financial Evaluation**

- 2.3.1 The maximum funding available for Table 1 (Vehicles and Related Equipment) and Table 4 (ILS Data and Deliverables) of Annex C to Part 7 – Acquisition Contract resulting from the bid solicitation is \$725,000,000.00 (Applicable Taxes extra). Bids valued in excess of this amount for the two Tables will be considered non-responsive.
- 2.3.2 The prices of the Responsive bids will be evaluated in accordance with Step 4 below, Goods and Services Tax or the Harmonized Sales Tax excluded, DDP(Consignee) as per Incoterms 2000, Canadian customs duties and excise taxes included, if applicable.

## 3 **Evaluation Methodology**

### 3.1 **Introduction**

- 3.1.1 There are several steps in the evaluation process, which are described below. Even though the evaluation and selection will be conducted in steps, the fact that Canada has proceeded to a later step does not mean that Canada has conclusively determined that the Bidder has successfully passed all the previous steps. Once Canada determines that the bids have passed initial screening in Step 1, Step 2, 3 and 4 may be conducted in parallel.

### 3.2 **Step 1: Proposal Receipt by PWGSC**

- 3.2.1 All bids will be screened by PWGSC Bid Receiving Unit to confirm that they are received on time. Bids delivered after the stipulated bid solicitation closing date and time will be returned.
- 3.2.2 PWGSC will review all bids to determine that they are complete and whether they are subject to a Vendor Performance Corrective Measure.
- 3.2.3 Any bid that does not meet these requirement will be declared non-responsive and will be given no further consideration.

### 3.3 **Step 2: Technical Evaluation**

#### 3.3.1 Mandatory Criteria Evaluation

- 3.3.1.1 This solicitation contains mandatory requirements. Evaluation teams will review each proposal to determine if the mandatory requirements as outlined in Part 4, Attachment 5, Section 4 – Mandatory Criteria and Technical Score have been met. If a proposal does not meet the mandatory requirements, the proposal will be deemed non-responsive.

### 3.3.2 Point-Rated Criteria Evaluation

- 3.3.2.1 This solicitation also contains rated requirements. In some instances, there is an accompanying mandatory threshold pass mark. Upon completion of the point-rated evaluation, Canada will consolidate and compile scores for the proposals in accordance with Part 4, Attachment 5, Section 4 - Mandatory Criteria and Technical Score.

### 3.3.3 Technical Compliancy Program (TCP)

- 3.3.3.1 PWGSC will confirm that the Test Articles have been received at NATC in accordance with Part 6 section 5 of this bid solicitation.
- 3.3.3.2 The TCP comprises of a Configuration Audit, Performance Testing and a Human Factors Evaluation. Provided that the Test Articles pass the Configuration Audit, the remainder of the TCP will be conducted in its entirety, IAW Part 4, Attachment 5, Section 2, Schedule 5-2. Proposals that do not pass the configuration audit requirement will be deemed non-responsive and will be given no further consideration.

## 3.4 **Step 3: IRB Evaluation**

- 3.4.1 Industry Canada will evaluate the IRB section of the bids outlined in Part 4, Attachment 2.

## 3.5 **Step 4: Contractual and Financial Evaluation**

- 3.5.1 PWGSC will evaluate the financial portion of the responsive bids. There are 3 Acquisition Scenarios which comprise different quantities of equipment on which the bidder may bid given the maximum funding available as per Article 2.3.1 described above. As a result, the financial evaluation will be conducted in two steps. First, all of the bids will be screened based on the scenarios proposed in order to select those bids which will be given further consideration. Second, the bid prices will be evaluated and scores will be computed.
- 3.5.2 Proposals that do not provide the Mandatory financial information in the Tables as required at Part 3, Article 2.3 will be deemed non-responsive and will be given no further consideration.

### 3.5.3 **Step 4a: Acquisition Financial Scenarios Screening**

- 3.5.3.1 The 3 scenarios are provided in the Tables at Part 4, Attachment 4. The maximum funding available described above is applicable only to the sum of Tables 1 and 4 for each scenario.. Bidders may bid on any of the Scenarios within their proposal. All bids will be screened using the process outlined below:
- 3.5.3.2 Should there be two (2) or more Responsive bids from one or more Bidders who proposed solutions for Scenario 1 that are within the maximum funding identified above, any other bids for Scenarios 2 and 3 will not be given further consideration. For added clarity, in this event, responsive bids that do not propose a solution for Scenario 1 within the maximum funding will not be considered.
- 3.5.3.3 Should there be fewer than two (2) Responsive bids from one or more Bidders who proposed solutions for Scenario 1, and there are two (2) or more Responsive bids from one or more Bidders who proposed solutions for Scenario 2 within the maximum funding identified above, any other bids for Scenario 3 will not be given further consideration. For added clarity, in this event, responsive bids that do not propose a solution for Scenario 2 within the maximum funding will not be considered.

- 3.5.3.4 Should there be fewer than two (2) Responsive bids from one or more Bidders who proposed solutions for Scenario 2, all responsive bids from bidders who proposed solutions for Scenario 3 within the maximum funding identified above will be considered.
- 3.5.3.5 In the event that there is only one responsive bid, Canada reserves the right to negotiate with the only responsive bidder under any scenario for which the only responsive bidder provided a response.
- 3.5.3.6 The following Figure 1 provides an example based on 6 bidders and 7 distinct bids to demonstrate the process above.

Figure 1: Example to demonstrate the financial scenarios screening process

- Bidder E was deemed non-responsive during the Technical Evaluation
- Bid F1 for Scenario 1 is beyond the maximum funding available and therefore there are not two responsive bids for Scenario 1
- There are more than 2 responsive bids for Scenario 2, and therefore none of the bids for Scenario 3 will be considered
- Bid B1, however, is beyond the maximum funding available and will not be considered
- Therefore only A1, A2, D1 and F1 will be considered for the balance of the financial evaluation

		Scenario		
Bidders	Bid	1	2	3
	A	A1	725	700
		A2	680	650
	B	B1	750	630
	C	C1	730	700
	D	D1	725	608
	E	E1	725	675
	F	F1	755	720
		Not given further consideration		

#### 3.5.4 STEP 4b: Total Evaluated Bid Price

- 3.5.4.1 The Bidder's Total Evaluated Bid Price is the sum of the Bidder's Acquisition Bid Price and ISS Bid Price:

$$\text{Bidder's Total Evaluated Bid Price} = \text{Acquisition Bid Price} + \text{ISS Bid Price}$$

- 3.5.4.2 The Acquisition Bid Price is the total bid price for all the Vehicles and Related Equipment as well as the ILS Data and Deliverables. The Acquisition Bid Price is calculated as the Sum of the total bid prices in each of the following tables:

- Part 4, Attachment 4 Tables:
  - Table 1: Vehicles and Related Equipment (for the selected Scenario per the screening process above)
  - Table 2: Vehicles and Related Equipment – Options (for the selected Scenario per the screening process above)
  - Table 4: ILS Data and Deliverables
- Part 7, Annex C Tables:
  - Table 1-1: Vehicles and Related Equipment – Additional
  - Table 5: ILS Data and Deliverables – Options

3.5.4.3 The ISS Bid Price is the projected total cost of the In Service Support for the life of the equipment. Therefore, with some exceptions, the ISS Bid Price is derived by extending the bid prices over the expected life of the equipment (i.e. 20 years) as necessary. The ISS Bid Price comprises Spare Parts, Repair and Overhaul, Special Tools and Test Equipment, Additional Work, Project Management Fee.

3.5.4.4 The ISS Bid Price is calculated as the Sum of:

- Estimated Lifetime Cost of Spare Parts. This is calculated using the equation at Part 4, Attachment 5, Section 3, Schedule 5-5, Article 2.4 with the bidder's parts prices for the Maintenance Significant Items in the Life Cycle Costing Corrective Maintenance Tables (all three) at Part 3, Attachment 3, Section 3, Schedule 3-3 and with the cost of labour set to zero (0).
- Estimated Lifetime Cost of Repair and Overhaul (Free-Flow). This is calculated by multiplying by four (4) the Total estimated cost at Part 4, Attachment 3, Table 1 in order to extend the estimate over the life of the equipment.
- Bid Price for Special Tools and Test Equipment (STTE). This is taken from the Total value of the STTE List at Part 4, Attachment 3, Table 3.
- Estimated Lifetime Cost of Additional Work. This is calculated by multiplying by four (4) the Total estimated cost at Part 4, Attachment 3, Table 5 in order to extend the estimate over the life of the equipment.
- Estimated Lifetime Cost of Project Management Fee. This is calculated by multiplying by four (4) the Total bid price for Project Management Fee at Part 4, Attachment 3, Table 6 in order to extend the estimate over the life of the equipment.

#### **4 Selection of Responsive Bid for Award of Acquisition and ISS Contracts**

- 4.1 The responsive bid with the **Highest Overall Score** will be recommended for award of the SMP Acquisition Contract (Part 7) and the SMP ISS Contract (Part 8), provided that no other responsive bid meets the **Best Value** criteria.
- 4.2 The **Overall Score** is the sum of the Bidder's Total Technical Proposal Score (70 points available) and the Bidder's Total Financial Proposal Score (30 points available).

- 4.3 The methodology for deriving the Bidder's Total Technical Proposal Score is described in detail at Part 4, Attachment 5, Section 4.
- 4.4 The methodology for deriving the Bidder's Total Financial Proposal Score is as follows:
- 4.4.1 Step 1: Calculate the Bidder's Total Adjusted Bid Price by multiplying the Lowest Total Evaluated Bid Price by the Sensitivity Factor of 0.4 and then subtract the result from every Total Evaluated Bid Price.

$$\text{Sensitivity Adjustment} = (0.4 \times \text{Lowest Total Evaluated Bid Price})$$

$$\text{Bidder's Total Adjusted Bid Price} = \text{Bidder's Total Evaluated Bid Price} - \text{Sensitivity Adjustment}$$

- 4.4.2 Step 2: Calculate the Bidder's Total Financial Proposal Score by dividing the Lowest Total Adjusted Bid Price by each bidder's Total Adjusted Bid Price then multiplying the resulting fraction by 30 (points available).

$$\text{Bidder's Financial Score Fraction} = \frac{\text{Lowest Total Adjusted Bid Price}}{\text{Bidder's Total Adjusted Bid Price}}$$

$$\text{Bidder's Total Financial Proposal Score} = \text{Bidder's Financial Score Fraction} \times 30$$

Figure 2: Example to demonstrate calculation of Financial Proposal Score

- From Figure 1 above, only A1, A2, D1 and F1 are being considered
- The Acquisition Bid Price shown is now reflective of each bidder's complete Acquisition Bid Price (as described above)
- Bid A2 has the Lowest Total Evaluated Bid Price; the resulting Sensitivity Adjustment is therefore  $1762 \times 0.4 = 704.8$
- Each bidder's Total Evaluated Bid Price is reduced by the Sensitivity Adjustment to yield the Bidder's Total Adjusted Bid Price
- Each bidder's Total Adjusted Bid Price is divided into the Lowest Total Adjusted Bid Price to yield the bidder's Financial Score Fraction

Bidders	Bids	Bid Price (\$M)				Financial Score Fraction (A) + (B) (C)	Financial Score (C) - (D) (E)
		Acquisition Bid Price (a)	ISS Bid Price (b)	Total Evaluated Bid Price (a) + (b) (A)	Total Adjusted Bid Price (B)		
A	A1	720	1628	2348	1643.2	0.6434	19.3014
	A2	762	1000	1762	1057.2	1.0000	30.0000
D	D1	746	1900	2646	1941.2	0.5446	16.3383
F	F1	745	2112	2857	2152.2	0.4912	14.7365

Lowest Total Adjusted Bid Price

- 4.5 Once the Overall Score for each responsive bid has been calculated, the Overall Scores will be compared for the **Best Value** criteria determination. A responsive bid that has not achieved the Highest Overall Score may be recommended for award if the following two criteria are met:



- (a) Its Total Technical Proposal Score is **within 5.00%** of the Total Technical Score of the responsive bid with the Highest Overall Score, **and**
- (b) Its Total Evaluated Bid Price is **at least 10.00% lower** than the Total Evaluated Bid price of the responsive bid with the Highest Overall Score.

Figure 3: Example to demonstrate determination of Best Value

- Bid D has the Highest Overall Score
- Bid A1 meets both Best Value Criteria
- None of the other bids (i.e. A2 and F) meet both Best Value Criteria
- Bid A1 will therefore be recommended for contract award

					Best Value Criteria		Recommend for Contract Award
Bidders	Bids	Financial Score	Technical Score	Overall Score	Technical Score within 5%	Price at least 10% lower	
A	A1	19.3014	64.1356	83.4370	yes	yes	yes
	A2	30.0000	43.2578	73.2578	no	yes	no
D	D1	16.3383	67.5112	83.8495	n/a	n/a	no
F	F1	14.7365	65.5000	80.2365	yes	no	no

Highest Overall Score

- 4.6 If only one (1) other responsive bid meets the Best Value criteria (i.e. both (a) and (b) above, then it will be recommended for award of the Contracts.
- 4.7 If more than one (1) other responsive bid meets Best Value criteria (i.e. both (a) and (b) above, then the Best Value responsive bid with the Highest Technical Score will be recommended for award of the Contracts.
- 4.8 In the event that two (2) or more bids earn identical Overall Scores, the Bidder offering the Higher Technical Proposal Score will be deemed as having the higher Overall Score.
- 4.9 Canada reserves the right to award the Contract based on the equipment quantities in any of the three Acquisition Scenarios.

## 5 Modification of the Resulting Contracts Prior to Award

- 5.1 Before issuance of the Contracts, the resulting Contracts (Parts 7 and 8) will be updated to take into account:
  - 5.1.1 any modifications resulting from the bid solicitation amendments will be incorporated;
  - 5.1.2 the columns "TCM", "Proposal Compliance Method", "Evaluation Point Allocation" and "Proposal Reference" will be deleted; and
  - 5.1.3 the point-rated criteria of the responsive proposal.
- 5.2 Point-rated requirements become Mandatory once offered in the bidder's proposal. The offered rated criterion identified as "Rated Criteria" will be moved to their respective Mandatory

paragraph in the various Annexes and Appendices. The examples below are provided to assist Bidders in understanding how the offered point-rated criteria will form part of the resulting Contracts. These examples are for explanation purposes and are not all encompassing.

**Example 5-1:**

In Appendix BA, for the Brakes requirement, the Mandatory criteria are identified in paragraph 2.19 (BA-379) and the Point-rated criteria in paragraph 3.11 (BA-43).

The bidder offers a traction control under BA-441 (The Vehicle **should** be equipped with traction control) but does not offer full actuated service brakes under BA-249 (The vehicle should be provided with full air actuated service brakes and spring actuated parking brakes).

Therefore, prior to Award, BA-249 is deleted from Appendix BA as it was not offered, and the Point-rated requirement BA-441 is moved under BA-379 and becomes a mandatory requirement. Ex: BA-441 will now read "The Vehicle **shall** be equipped with traction control".

**Example 5-2:**

In Appendix BA, for the Performance requirement, the Mandatory criteria are identified in paragraph 2.9 (BA-12) and the Rated criteria in paragraph 3.4 (BA-512).

-BA-514 "The Vehicle **should** have the shortest possible acceleration time, from 0 km/h to 80 km/h, while at GVW", Bidder offers XYZ seconds, this is confirmed during the testing at NATC, BA-514 is moved under paragraph 2.9 and now reads "the Vehicle **shall** have an acceleration of XYZ seconds, or less, while at GVW".

-BA-120, "The Vehicle **should** be capable of sustained speed on flat, hard-surfaced roads of up to 110 km/h", Bidder offers 108 km/h, this is confirmed during the testing at NATC, BA-118 "...**shall**.. speed of 90 km/h" is deleted, BA-120 is moved under paragraph 2.9 and now reads "The Vehicle **shall** be capable of sustained speed on flat, hard-surfaced roads of 108 km/h."

-BA-542 "The Vehicle should be able to maintain a speed of 80 km/h at GVW on hard surfaced grades of up to 5%." Bidder did not offer above the mandatory 2% grade and therefore the mandatory performance requirement remains as is.

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request for Proposal  
W8476-06MSMP/L

Part 4 – Evaluation Procedures and Basis of Selection

Attachment 1 – Not Used

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request for Proposal  
W8476-06MSMP/L

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

ATTACHMENT 2 - IRB PROPOSAL EVALUATION PLAN

## **IRB PROPOSAL EVALUATION PLAN**

### **1.0 IRB EVALUATION PLAN**

#### **1.1. Introduction**

- 1.1.1. IRB Overview: As part of the evaluation of the proposal, the IRB aspects will be evaluated to ensure they meet the mandatory requirements. The results of this evaluation will then be integrated (on a pass/fail basis) into the evaluations conducted by Public Works and Government Services Canada (PWGSC) and the Department of National Defence (DND).
- 1.1.2. Purpose: The purpose of this IRB Evaluation Plan is to describe the organization, procedures and methodology for evaluating the IRB proposal submitted by the Bidder.
- 1.1.3. IRB Evaluation Plan: The IRB Evaluation Plan will assist the IRB Authority in providing Departmental input into the overall evaluation process. The results of the IRB evaluations will be used to confirm that the selected Bidder is able to satisfy the requirement to provide quality IRB consistent with Government objectives. Transactions will only be evaluated on the data provided in the proposal.
- 1.1.4. IRB Evaluation Team: The IRB Evaluation Team is led by the IRB Authority and may include representatives from the Regional Development Agencies.

#### **1.2. Canada's IRB Objectives**

- 1.2.1. The Government's approved IRB objectives are to encourage long-term industrial and regional development, including Small and Medium business. A Bidder's failure to meet the minimum acceptable levels in the IRB evaluation of IRB proposal will result in the Bidder's proposal being deemed non-compliant.
- 1.2.2. The objective of the IRB evaluation is to assess the economic benefit to Canada of the Bidder's proposal in relation to:
  - 1.2.2.1. The Designated Regions of Atlantic, Quebec, Northern Ontario, Southern Ontario and the West; and
  - 1.2.2.2. Small and Medium Business.
- 1.2.3. This evaluation will be accomplished by:
  - 1.2.3.1. Determining the nature of the benefits offered, their value in dollars and in terms of percentages of the IRB commitment values;
  - 1.2.3.2. Assessing the quality of the benefits offered as they relate to the stated IRB Objectives of the Government of Canada;
  - 1.2.3.3. Assessing the explicit contractual commitments made by each Bidder and the enforceability of these commitments;
  - 1.2.3.4. Determining the risk associated with the benefits being proposed;

- 1.2.3.5. Assessing the individual merits of the IRB proposal, based on the rating factors contained herein; and
- 1.2.3.6. Determining the acceptability of the proposal.
- 1.2.4. All proposed initiatives will be evaluated on their own merits.
- 1.2.5. The IRB Proposal will be evaluated to ensure that the benefits proposed meet the specified IRB Objectives, mandatory requirements, eligibility criteria, definitions and format. The onus is on the Bidder to:
  - 1.2.5.1. Demonstrate that the IRB Transactions proposed for this procurement will achieve the IRB objectives outlined in Part 3, Attachment 2
  - 1.2.5.2. Show how well these commitments meet the eligibility criteria; and
  - 1.2.5.3. Ensure that they are backed by 10% Liquidated Damages.
- 1.3. Evaluation Methodology
  - 1.3.1. The Bidder's proposal will be evaluated to verify whether the IRB mandatory requirements specified in Part 3, attachment 2, have been met using the following methodology.
  - 1.3.2. IRB Plans
    - 1.3.2.1. Company Business Plan. The Company Business Plan will be evaluated to determine the ability of the Bidder to maximize the economic benefit to Canada resulting from this procurement;
    - 1.3.2.2. IRB Management Plan. The IRB Management Plan will be evaluated to determine the Bidder's ability to develop, plan, implement and manage the proposed IRB program;
    - 1.3.2.3. IRB Regional Development Plan. The IRB Regional Development Plan will be evaluated to determine the merits of the Bidder's ability to assist and develop business in the Designated Regions;
    - 1.3.2.4. Small and Medium Business Development Plan. The Small and Medium Business Development Plan will be evaluated to determine the Bidder's ability to assist and encourage small business; and
    - 1.3.2.5. The objective of the IRB Plans evaluation is to determine the economic benefit to Canada specified in the IRB Plans and, therefore, will be evaluated from a qualitative and risk perspective.
    - 1.3.2.6. Each IRB Plan will be evaluated using the following:
      - 1.3.2.6.1. Each IRB Plan will be given a score for "Quality" and a score for "Risk";
      - 1.3.2.6.2. Quality will be rated on a scale of zero (0) to five (5), using the Word Pictures in Table 1 (IRB Plan Quality Word Pictures);

VALUE	IRB PLAN QUALITY WORD PICTURES
5	EXCELLENT Provided all the requested information in the Statement of IRB Work (Part 3, Attachment 2, Section 6) for each individual plan. Plan is fully developed.
4	GOOD Provided all the requested information in the Statement of IRB Work (Part 3, Attachment 2, Section 6) for each individual plan. Plan is well developed.
3	AVERAGE Provided most of the requested information in the Statement of IRB Work (Part 3, Attachment 2, Section 6) for each individual plan. Plan is reasonably well developed.
2	POOR Provided some of the requested information in the Statement of IRB Work (Part 3, Attachment 2, Section 6) for each individual plan. Plan is not well developed.
1	VERY WEAK Provided a minimum of the requested information in the Statement of IRB Work (Part 3, Attachment 2, Section 6) for each individual plan. Plan is not developed.
0	UNACCEPTABLE Provided none of the requested in the Statement of IRB Work (Part 3, Attachment 2, Section 6) for each individual plan.

Table 1, IRB Plan Quality Word Pictures

1.3.2.6.3. Risk will be rated on a scale of zero (0) to five (5), using the Word Pictures in Table 2 (IRB Plan Risk Word Pictures)

RISK VALUE	IRB PLAN RISK WORD PICTURES
5	EXCELLENT The IRB Plan very clearly demonstrates that all of Canada's IRB objectives (Part 3, Attachment 2, Section 3) will be fully met. Demonstrates a comprehensive depth of knowledge, capability and commitment such that the probability of failure to achieve is extremely low.
4	GOOD The IRB Plan clearly demonstrates that all of Canada's IRB objectives (Part 3, Attachment 2, Section 3) will be fully met. Demonstrates a considerable depth of knowledge, capability and commitment such that the probability of failure to achieve is low.

RISK VALUE	IRB PLAN RISK WORD PICTURES
3	<b>AVERAGE</b> The IRB Plan demonstrates that most of Canada's IRB objectives (Part 3, Attachment 2, Section 3) will be fully met. Demonstrates an adequate depth of knowledge, capability and commitment such that the probability of failure to achieve is moderate.
2	<b>POOR</b> The IRB Plan demonstrates that some of Canada's IRB objectives (Part 3, Attachment 2, Section 3) will be met. Demonstrates a limited depth of knowledge, capability and commitment such that the probability of failure to achieve is significant.
1	<b>VERY WEAK</b> The IRB Plan does not demonstrate that any of Canada's IRB objectives (Part 3, Attachment 2, Section 3) will be met. Demonstrates an inadequate depth of knowledge, capability and commitment such that the probability of failure to achieve is likely.
0	<b>UNACCEPTABLE</b> No information provided, or the IRB Plan does not address the objectives (Part 3, Attachment 2, Section 3) in a suitable and documented manner.

Table 2, IRB Plan Risk Word Pictures

1.3.2.6.4. The Quality and Risk scores for each plan will be multiplied together and the sum calculated to determine the final IRB Plans evaluation score for each proposal;

1.3.2.6.5. The minimum acceptable final IRB Proposal Plans evaluation score is thirty six (36) points for each IRB proposal. The Bidder must achieve or exceed the minimum final IRB Proposal Plans evaluation score. The maximum score is one hundred (100) points.

EXAMPLE:

Plan	Quality Score (1)	Risk Score (2)	Plan Score (3) (3) = (1) * (2)
IRB Company Business Plan	4	3	12
IRB Management Plan	3	3	9
Regional Development Plan	4	4	16
Small Business Development Plan	4	2	8
Total Score (sum of Plan scores)			45



1.3.3. IRB Transactions

- 1.3.3.1. Detailed IRB Transactions. Proposed IRB Transactions will be evaluated to determine the degree to which they meet the IRB objectives detailed in the “Canada’s Industrial and Regional Benefits Objectives” section of this RFP.
- 1.3.3.2. Bidders should note that the second tranche of IRB Transactions submitted by the winning bidder one (1) year following contract award, although not a part of this evaluation, will be assessed using the same methodology as described below.
- 1.3.3.3. The IRB Transactions will be evaluated to ensure the eligibility criteria are met for Canadian Content Value (CCV), Causality, Incrementally, Timing, and Eligible Party described in Annex F of the resulting SMP Acquisition and SMP ISS Contracts. These criteria affect both qualitative and quantitative assessments.
- 1.3.3.4. If a proposed IRB Transaction does not fulfil the Eligibility Criteria requirements, then the specific proposed transaction will be found unacceptable, will be rejected and rated as zero (0) within the determination of overall bid acceptability.
- 1.3.3.5. The objective of the IRB Transactions evaluation is to determine the economic benefit to Canada of the transactions. The IRB Transactions proposed by the Bidder, therefore, will be evaluated from a quantitative, qualitative and risk perspective.
- 1.3.3.6. Eligible proposed IRB Transactions will be evaluated, by type (Direct or Indirect as defined in Annex F of the resulting SMP Acquisition and ISS Contracts), for Canadian Content Value, quality, and risk.
- 1.3.3.7. Each IRB Transaction will be evaluated using the following:
- 1.3.3.7.1. Each proposed IRB Transaction will be evaluated to determine the Canadian Content Value (CCV) expressed in millions of Canadian dollars as defined in Annex F of the resulting SMP Acquisition and SMP ISS Contracts;
- 1.3.3.7.2. Each proposed IRB Transaction will be given a score for “Quality” and a score for “Risk”;
- 1.3.3.7.3. Quality will be rated for each proposed IRB Transaction on a scale of zero (0) to five (5), using the Word Pictures in Table 3 (IRB Transaction Quality Word Pictures);

VALUE	IRB TRANSACTION QUALITY WORD PICTURES
5	EXCELLENT Fully achieves all of Canada’s IRB Objectives (Part 3, Attachment 2, Section 3) for this Project and involves an equivalent or greater level of technology.
4	GOOD Reasonably achieves all of Canada’s IRB Objectives (Part 3, Attachment 2, Section 3) for this Project and involves work at similar technology levels.

VALUE	IRB TRANSACTION QUALITY WORD PICTURES
3	<b>AVERAGE</b> Achieves most of Canada's IRB Objectives (Part 3, Attachment 2, Section 3) for this Project and involves some work with equivalent technology levels.
2	<b>POOR</b> Meets some of Canada's IRB Objectives (Part 3, Attachment 2, Section 3) for this Project and involves little work with equivalent technology levels.
1	<b>VERY WEAK</b> Meets few of Canada's IRB Objectives (Part 3, Attachment 2, Section 3) for this Project and involves no work with similar technology levels.
0	<b>UNACCEPTABLE</b> Fails to develop industrial capability to any level that complies with Canada's IRB objectives (Part 3, Attachment 2, Section 3).

Table 3, IRB Transaction Quality Word Pictures

1.3.3.7.4. Risk will be rated for each proposed IRB Transaction on a scale of zero (0) to five (5), using the Word Pictures in Table 4 (IRB Transaction Risk Word Pictures);

RISK VALUE	IRB TRANSACTION RISK WORD PICTURES
5	<b>EXCELLENT</b> The IRB Transaction is fully described (Part 3, Attachment 2, Section 6) and very clearly demonstrates that all of Canada's IRB Objectives (Part 3, Attachment 2, Section 3) will be fully met. Demonstrates a comprehensive depth of knowledge, capability and commitment such that the probability of failure to achieve is extremely low.
4	<b>GOOD</b> The IRB Transaction is well described (Part 3, Attachment 2, Section 6) and clearly demonstrates that all of Canada's IRB Objectives (Part 3, Attachment 2, Section 3) will be fully met. Demonstrates a considerable depth of knowledge, capability and commitment such that the probability of failure to achieve is low.
3	<b>AVERAGE</b> The IRB Transaction is adequately described (Part 3, Attachment 2, Section 6) and demonstrates that Canada's IRB Objectives (Part 3, Attachment 2, Section 3) will be met. Demonstrates an adequate depth of knowledge, capability and commitment such that the probability of failure to achieve is moderate.

RISK VALUE	IRB TRANSACTION RISK WORD PICTURES
2	<p><b>POOR</b></p> <p>The IRB Transaction is not well described (Part 3, Attachment 2, Section 6) and does not demonstrate that Canada's IRB Objectives (Part 3, Attachment 2, Section 3) will be met. Demonstrates a limited depth of knowledge, capability and commitment such that the probability of failure to achieve is significant.</p>
1	<p><b>VERY WEAK</b></p> <p>The IRB Transaction is very poorly described (Part 3, Attachment 2, Section 6) and does not address Canada's IRB Objectives (Part 3, Attachment 2, Section 3) in any significant manner. Demonstrates an inadequate depth of knowledge, capability and commitment such that the probability of failure to achieve is likely.</p>
0	<p><b>UNACCEPTABLE</b></p> <p>No information provided, or the IRB Plan does not address Canada's IRB Objectives (Part 3, Attachment 2, Section 3) in a suitable and documented manner.</p>

Table 4, IRB Transaction Word Pictures

- 1.3.3.7.5. The score for each individual proposed IRB Transaction will be determined by multiplying the applicable CCV (in millions of Canadian dollars) times the Quality score times the Risk score for each proposed IRB Transaction;
- 1.3.3.7.6. For the Bidder's IRB proposal, the scores for all eligible proposed IRB Transactions will be totalled, divided by the total IRB Commitment Amount (or the total of the Bidder's identified IRB Transactions, whichever is greater) and multiplied by one hundred (100) to obtain the final IRB Transaction evaluation score;
- 1.3.3.7.7. For the first tranche of IRB Transactions due at bid closing, the minimum acceptable IRB Transaction evaluation score is two hundred seventy (270) points.
- 1.3.3.7.8. For the second tranche of IRB Transactions due one (1) year after contract award, the point score for these Transactions will be combined with the point score from the first tranche, and taken together, the minimum acceptable IRB Transaction evaluation score is five hundred forty (540).
- 1.3.3.7.9. For the third tranche of remaining IRB Transactions due three (3) years after the Acquisition and three (3) years after the ISS contract award, these will not be formally evaluated or scored, but reviewed by the IRB Authority, in consultation with the Regional Development Agencies.

**EXAMPLE:**

In this example the Bidder is committing to an IRB Commitment Value of \$100 and is identifying \$60 as part of its proposal.

IRB Transaction #	CCV \$ (1)	Quality factor (2)	Risk factor (3)	IRB Trx.Score (4)=(1)*(2)*(3)
001	\$20	3	2	120
002	\$5	5	3	75
003	\$35	4	5	700
Grand Total (sum of (4))				895

IRB Transaction rating = (Grand total/IRB Commitment value)\*100 = \_\_\_\_\_

IRB Transaction rating = (895/100)\*100 = 895 points

## **Standard Military Pattern**

### **Medium Support Vehicle System**

Request for Proposal  
W8476-06MSMP/L

Part 4 - Evaluation Procedures and Basis of Selection

Attachment 3 - ISS Financial Evaluation

## **1 Purpose**

This Attachment contains some of the Tables that will be used in the calculation of the ISS Bid Price.

## **2 Table of Contents**

Table 1 - Repair and Overhaul Free-Flow (Evaluation)	\$	-
Table 2 - Not Used		
Table 3 - Special Tools and Test Equipment List	\$	-
Table 4 - Not Used		
Table 5 - Labour, Overhead and Profit (Evaluation)	\$	-
Table 6 - Program Management and Deliverables (Evaluation)	\$	-
<hr/> <hr/> <b>TOTAL PRICE</b>		<b>\$ -</b>

**Table 1 - Repair and Overhaul Free-Flow (Evaluation)**

The estimated quantity herein are for bid evaluation purposes only and must not be construed as an official and binding quantity forecast.

Item	Unit of Issue	Price			Sub-Total
		Firm Fixed	Destination (Consignee)	Disposal IAW Part 8, Annex B, Appendix BF, Article 4.12	
<b>Engine</b>	EA		LFWA EFCC		
			25 CFSD EFCC		
Forecast		75		3	
Sub-Total		\$ -		\$ -	\$ -
<b>Transmission</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		45		3	
Sub-Total		\$ -		\$ -	\$ -
<b>Transfer Case Assembly</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		45		5	
Sub-Total		\$ -		\$ -	\$ -
<b>Coolant Pump</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		60		20	
Sub-Total		\$ -		\$ -	\$ -
<b>Starter</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		100		2	
Sub-Total		\$ -		\$ -	\$ -
<b>Alternator</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		100		3	
Sub-Total		\$ -		\$ -	\$ -
<b>Air Compressor</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		60		3	
Sub-Total		\$ -		\$ -	\$ -
<b>Turbocharger</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		100		10	
Sub-Total		\$ -		\$ -	\$ -
<b>Fuel Injection Pump</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		50		5	
Sub-Total		\$ -		\$ -	\$ -
<b>Electronic Control Module</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		20		10	
Sub-Total		\$ -		\$ -	\$ -
<b>Steering Gear Box</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		20		1	
Sub-Total		\$ -		\$ -	\$ -
<b>Hydraulic Cylinders</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		25		1	
Sub-Total		\$ -		\$ -	\$ -
<b>Hydraulic Motors</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		45		1	
Sub-Total		\$ -		\$ -	\$ -
<b>Hydraulic Pump</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		45		1	
Sub-Total		\$ -		\$ -	\$ -
<b>Hydraulic Valves</b>	EA		LFWA EFCC		
			25 CFSD EFCC		
Forecast		5		5	
Sub-Total		\$ -		\$ -	\$ -
<b>Axles and Differential, front assembly</b>	EA		LFWA EFCC		
			25 CFSD EFCC		
Forecast		40		2	
Sub-Total		\$ -		\$ -	\$ -
<b>Axles and Differential, intermediate assembly</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		30		2	
Sub-Total		\$ -		\$ -	\$ -
<b>Axles and Differential, rear assembly</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		30		2	
Sub-Total		\$ -		\$ -	\$ -
<b>Winch</b>	EA	\$ -	LFWA EFCC	\$ -	
			25 CFSD EFCC		
Forecast		5		1	
Sub-Total		\$ -		\$ -	\$ -
<b>Total</b>		\$ -		\$ -	\$ -
<b>Total estimated price for bid evaluation purposes</b>					\$ -

Table 3 - Special Tools and Test Equipment List

This Table is to be completed IAW Part 7, Annex B, para 5.5.7 (SOW-857), DID SMP-IL-007 as well as Part 3, paragraph 2.3.5.  
Identiture code and NATO stock number should be provided if available  
For bid evaluation purposes, the Qty is set to 1 for all STTE.

ID number	Identiture code	Item Name	MRN Part number	NATO stock number NSN	Maint Level (1 or 2)	Unit of Issue	unit price	QTY		Total value	Remarks	
Eval 2-3-001								1	\$	-		
Eval 2-3-002								1	\$	-		
Eval 2-3-003								1	\$	-		
Eval 2-3-004								1	\$	-		
Eval 2-3-005								1	\$	-		
Eval 2-3-006								1	\$	-		
Eval 2-3-007								1	\$	-		
Eval 2-3-008								1	\$	-		
Eval 2-3-009								1	\$	-		
Eval 2-3-010								1	\$	-		
Eval 2-3-011								1	\$	-		
Eval 2-3-012								1	\$	-		
Eval 2-3-013								1	\$	-		
Eval 2-3-014								1	\$	-		
Eval 2-3-015								1	\$	-		
Eval 2-3-016								1	\$	-		
Eval 2-3-017								1	\$	-		
Eval 2-3-018								1	\$	-		
Eval 2-3-019								1	\$	-		
Eval 2-3-020								1	\$	-		
Eval 2-3-021								1	\$	-		
Eval 2-3-022								1	\$	-		
Eval 2-3-023								1	\$	-		
Eval 2-3-024								1	\$	-		
Eval 2-3-025								1	\$	-		
Eval 2-3-026								1	\$	-		
Eval 2-3-027								1	\$	-		
Eval 2-3-028								1	\$	-		
Eval 2-3-029								1	\$	-		
Eval 2-3-030								1	\$	-		
Eval 2-3-031								1	\$	-		
Eval 2-3-032								1	\$	-		
Eval 2-3-033								1	\$	-		
Eval 2-3-034								1	\$	-		
Eval 2-3-035								1	\$	-		
Eval 2-3-036								1	\$	-		
Eval 2-3-037								1	\$	-		
Eval 2-3-038								1	\$	-		
Eval 2-3-039								1	\$	-		
Eval 2-3-.....		More lines to be added as required							1	\$	-	
Total Price									\$	-		



**Table 5 - Labour, Overhead and Profit (Evaluation)**

The estimated hours herein are for evaluation purposes only and must not be construed as an official and binding forecast.

**1. Hourly Rates**

Labour Category	Year 1	Year 2	Year 3	Year 4	Year 5	Total
<b>Engineer</b>						
Hours (for evaluation purposes only)	360	360	360	360	360	
Bidder's proposed hourly rate (\$)						
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Technician</b>						
Hours (for evaluation purposes only)	1580	1580	1580	1580	1580	
Bidder's proposed hourly rate (\$)						
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>Technologist</b>						
Hours (for evaluation purposes only)	240	240	240	240	240	
Bidder's proposed hourly rate (\$)						
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
<b>ISS/ ILS Specialist</b>						
Hours (for evaluation purposes only)	480	480	480	480	480	
Bidder's proposed hourly rate (\$)						
Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	
Total labour	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Overhead value (Labour * Overhead Rate)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Profit ((Labour + Overhead value) * profit rate)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total estimated cost for evaluation purposes</b>						<b>\$ -</b>

**Table 5 - Labour, Overhead and Profit (Evaluation)**

---

Table 5 - Labour, Overhead and Profit (Evaluation)

2. Overhead

	Year 1-5
Overhead Rate (%)	

3. Profit

	Year 1-5
Profit Rate (%)	

Table 6 - Program Management and Deliverables

Item No.	Deliverable End Item	Reference	Quantity in months (for evaluation purposes only)	Firm Monthly Price (FMP)	Total (P x FMP)	Location	Remarks
1-1-001	Project Management Fee	IAW Core Work of Part 8, Annex B, Article 3: Service Requirements	60	\$ -	\$ -	n/a	Canada will commence payment upon delivery and acceptance of the first vehicle under the Acquisition Contract. This Management Fee includes all costs required to properly and effectively manage and provide all the Core Work requirements under this Contract.

## **Standard Military Pattern**

### **Medium Support Vehicle System**

Request for Proposal  
W8476-06MSMP/L

Part 4 - Evaluation Procedures and Basis of Selection

Attachment 4 - Acquisition Scenarios Financial Evaluation

## 1 Purpose

This Attachment contains the Tables that will be used to calculate and evaluate the Acquisition Contract Scenario Bid value.

## 2 Table of Contents

### Scenario 1 (1500 vehicles)

Table 1 - Vehicles and Related Equipment - Scenario 1	\$	-
Table 4 - ILS Data and Deliverables	\$	-
<b>Scenario 1 Total Price</b>	<b>\$</b>	<b>-</b>

Table 2 - Vehicles and Related Equipment - Scenario 1 - Options	\$	-
<b>Attachment 4, Scenario 1-basis Total Price</b>	<b>\$</b>	<b>-</b>

### Scenario 2 (1400 vehicles)

Table 1 - Vehicles and Related Equipment - Scenario 2	\$	-
Table 4 - ILS Data and Deliverables	\$	-
<b>Scenario 2 Total Price</b>	<b>\$</b>	<b>-</b>

Table 2 - Vehicles and Related Equipment - Scenario 2 - Options	\$	-
<b>Attachment 4, Scenario 2-basis Total Price</b>	<b>\$</b>	<b>-</b>

### Scenario 3 (1300 vehicles)

Table 1 - Vehicles and Related Equipment - Scenario 3	\$	-
Table 4 - ILS Data and Deliverables	\$	-
<b>Scenario 3 Total Price</b>	<b>\$</b>	<b>-</b>

Table 2 - Vehicles and Related Equipment - Scenario 3 - Options	\$	-
<b>Attachment 4, Scenario 3-basis Total Price</b>	<b>\$</b>	<b>-</b>

**Table 1 - Vehicles and Related Equipment - Scenario 1**

Contract Line Item Number (CLIN)	Deliverable End Item	Source	Quantity	Unit of Issue	Unit Price (DDP)	Extended Price	Destination
1010	Configuration "A" - Cargo						
1011	Cargo	Appendix BA-7	63	EA	\$ -	\$ -	LFAA EFCC
1012			150				SQFT EFCC
1013			193				LFCA EFCC
1014			153				LFWA EFCC
1015			36				25 CFSD EFCC
1020	Configuration "B" - Cargo with MHC						
1021	Cargo with MHC	Appendix BA-9	8	EA	\$ -	\$ -	LFAA EFCC
1022			12				SQFT EFCC
1023			11				LFCA EFCC
1024			12				LFWA EFCC
1025			2				25 CFSD EFCC
1040	Configuration "D" - Load Handling System						
1041	Load Handling System	Appendix BA-8	78	EA	\$ -	\$ -	LFAA EFCC
1042			174				SQFT EFCC
1043			203				LFCA EFCC
1044			210				LFWA EFCC
1045			40				25 CFSD EFCC
1050	Configuration "E" - Cargo, MRT variant						
1051	Cargo, MRT variant	Appendix BA-14	22	EA	\$ -	\$ -	LFAA EFCC
1052			34				SQFT EFCC
1053			35				LFCA EFCC
1054			46				LFWA EFCC
1055			18				25 CFSD EFCC
2010	Armour Protection System	Appendix BA-6	150	EA	\$ -	\$ -	25 CFSD EFCC
2011	30 Trailer run flat insert	Appendix BA-6	1	LOT	\$ -	\$ -	25 CFSD EFCC
3011	Trailer	Appendix BA-11	12	EA	\$ -	\$ -	LFAA EFCC
3012			36				SQFT EFCC
3013			32				LFCA EFCC
3014			35				LFWA EFCC
3015			185				25 CFSD EFCC
4011	APS Engineered vehicle	Annex B para 4.3.3.1.1	2	EA	\$ -	\$ -	DRDC Valcartier

<b>Scenario 1 Table 1 Total Price</b>	<b>\$ -</b>
---------------------------------------	-------------

**Table 2 - Vehicles and Related Equipment - Scenario 1 - Options**

Firm Prices to be indicated DDP (Consignee) as per Incoterms 2000.)

For Bid Evaluation Purposes, the prices quoted will be averaged per DEI on a DDP (Consignee) basis.

Contract Line Item Number (CLIN)	Deliverable End Item	Source	Quantity for evaluation purposes	Unit of Issue	up to 24 MACA	25 MACA to 36 MACA	37 MACA to 48 MACA	49 MACA to 60 MACA	Total: Average price of each DEI over 5 years	Destination
1010	<b>Configuration "A" - Cargo</b>									
	Cargo	Appendix BA-7	260	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1020	<b>Configuration "B" - Cargo with MHC</b>									
	Cargo with MHC	Appendix BA-9	30	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1040	<b>Configuration "D" - Load Handling System</b>									
	Load Handling System	Appendix BA-8	300	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1050	<b>Configuration "E" - Cargo, MRT variant</b>									
	Cargo, MRT variant	Appendix BA-14	60	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
2010	Armour Protection System	Appendix BA-6	150	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
2011	Trailer run flat insert	Appendix BA-6	24	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
3010	Trailer	Appendix BA-11	240	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
4010A	APS Test coupons Opaque Armour	Annex B para 4.3.3.1.2 and 4.3.3.1.4	50	EA	\$ -	\$ -	\$ -	\$ -	\$ -	DRDC Valcartier, QC
4010B	APS Test coupons Transparent Armour	Annex B para 4.3.3.1.2 and 4.3.3.1.4	10	EA	\$ -	\$ -	\$ -	\$ -	\$ -	DRDC Valcartier, QC

**Scenario 1 Table 2 Total Price** \$ -



**Table 1 - Vehicles and Related Equipment - Scenario 2**

Contract Line Item Number (CLIN)	Deliverable End Item	Source	Quantity	Unit of Issue	Unit Price (DDP)	Extended Price	Destination
1010	Configuration "A" - Cargo						
1011	Cargo	Appendix BA-7	63	EA	\$ -	\$ -	LFAA EFCC
1012			136				SQFT EFCC
1013			179				LFCA EFCC
1014			139				LFWA EFCC
1015			29				25 CFSD EFCC
1020	Configuration "B" - Cargo with MHC						
1021	Cargo with MHC	Appendix BA-9	8	EA	\$ -	\$ -	LFAA EFCC
1022			12				SQFT EFCC
1023			11				LFCA EFCC
1024			12				LFWA EFCC
1025			2				25 CFSD EFCC
1040	Configuration "D" - Load Handling System						
1041	Load Handling System	Appendix BA-8	76	EA	\$ -	\$ -	LFAA EFCC
1042			160				SQFT EFCC
1043			190				LFCA EFCC
1044			194				LFWA EFCC
1045			34				25 CFSD EFCC
1050	Configuration "E" - Cargo, MRT variant						
1051	Cargo, MRT variant	Appendix BA-14	22	EA	\$ -	\$ -	LFAA EFCC
1052			34				SQFT EFCC
1053			35				LFCA EFCC
1054			46				LFWA EFCC
1055			18				25 CFSD EFCC
2010	Armour Protection System	Appendix BA-6	80	EA	\$ -	\$ -	25 CFSD EFCC
2011	25 Trailer run flat insert	Appendix BA-6	1	LOT	\$ -	\$ -	25 CFSD EFCC
3011	Trailer	Appendix BA-11	12	EA	\$ -	\$ -	LFAA EFCC
3012			36				SQFT EFCC
3013			32				LFCA EFCC
3014			35				LFWA EFCC
3015			10				25 CFSD EFCC
4011	APS Engineered vehicle	Annex B para 4.3.3.1.1	2	EA	\$ -	\$ -	DRDC Valcartier

<b>Scenario 2 Table 1 Total Price</b>	<b>\$ -</b>
---------------------------------------	-------------

**Table 2 - Vehicles and Related Equipment - Scenario 2 - Options**

Firm Prices to be indicated DDP (Consignee) as per Incoterms 2000.

For Bid Evaluation Purposes, the prices quoted will be averaged per DEI on a DDP (Consignee) basis.

Contract Line Item Number (CLIN)	Deliverable End Item	Source	Quantity for evaluation purposes	Unit of Issue	up to 24 MACA	25 MACA to 36 MACA	37 MACA to 48 MACA	49 MACA to 60 MACA	Total: Average price of each DEI over 5 years	Destination
1010	<b>Configuration "A" - Cargo</b>									
	Cargo	Appendix BA-7	260	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1020	<b>Configuration "B" - Cargo with MHC</b>									
	Cargo with MHC	Appendix BA-9	30	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1040	<b>Configuration "D" - Load Handling System</b>									
	Load Handling System	Appendix BA-8	300	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1050	<b>Configuration "E" - Cargo, MRT variant</b>									
	Cargo, MRT variant	Appendix BA-14	60	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
2010	Armour Protection System	Appendix BA-6	150	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
2011	Trailer run flat insert	Appendix BA-6	24	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
3010	Trailer	Appendix BA-11	240	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
4010A	APS Test coupons Opaque Armour	Annex B para 4.3.3.1.2 and 4.3.3.1.4	50	EA	\$ -	\$ -	\$ -	\$ -	\$ -	DRDC Valcartier, QC
4010B	APS Test coupons Transparent Armour	Annex B para 4.3.3.1.2 and 4.3.3.1.4	10	EA	\$ -	\$ -	\$ -	\$ -	\$ -	DRDC Valcartier, QC

**Scenario 2 Table 2 Total Price** \$ -

**Table 1 - Vehicles and Related Equipment - Scenario 3**

Contract Line Item Number (CLIN)	Deliverable End Item	Source	Quantity	Unit of Issue	Unit Price (DDP)	Extended Price	Destination
1010	Configuration "A" - Cargo						
1011	Cargo	Appendix BA-7	39	EA	\$ -	\$ -	LFAA EFCC
1012			113				SQFT EFCC
1013			165				LFCA EFCC
1014			120				LFWA EFCC
1015			27				25 CFSD EFCC
1020	Configuration "B" - Cargo with MHC						
1021	Cargo with MHC	Appendix BA-9	8	EA	\$ -	\$ -	LFAA EFCC
1022			12				SQFT EFCC
1023			11				LFCA EFCC
1024			12				LFWA EFCC
1025			2				25 CFSD EFCC
1040	Configuration "D" - Load Handling System						
1041	Load Handling System	Appendix BA-8	70	EA	\$ -	\$ -	LFAA EFCC
1042			156				SQFT EFCC
1043			185				LFCA EFCC
1044			189				LFWA EFCC
1045			36				25 CFSD EFCC
1050	Configuration "E" - Cargo, MRT variant						
1051	Cargo, MRT variant	Appendix BA-14	22	EA	\$ -	\$ -	LFAA EFCC
1052			34				SQFT EFCC
1053			35				LFCA EFCC
1054			46				LFWA EFCC
1055			18				25 CFSD EFCC
2010	Armour Protection System	Appendix BA-6	73	EA	\$ -	\$ -	25 CFSD EFCC
2011	20 Trailer run flat insert	Appendix BA-6	1	EA	\$ -	\$ -	25 CFSD EFCC
3011	Trailer	Appendix BA-11	12	EA	\$ -	\$ -	LFAA EFCC
3012			36				SQFT EFCC
3013			32				LFCA EFCC
3014			35				LFWA EFCC
3015			10				25 CFSD EFCC
4011	APS Engineered vehicle	Annex B para 4.3.3.1.1	2	EA	\$ -	\$ -	DRDC Valcartier

**Scenario 3 Table 1 Total Price**

\$ -

**Table 2 - Vehicles and Related Equipment - Scenario 3 - Options**

Firm Prices to be indicated DDP (Consignee) as per Incoterms 2000.

For Bid Evaluation Purposes, the prices quoted will be averaged per DEI on a DDP (Consignee) basis.

Contract Line Item Number (CLIN)	Deliverable End Item	Source	Quantity for evaluation purposes	Unit of Issue	up to 24 MACA	25 MACA to 36 MACA	37 MACA to 48 MACA	49 MACA to 60 MACA	Total: Average price of each DEI over 5 years	Destination
1010	<b>Configuration "A" - Cargo</b>									
	Cargo	Appendix BA-7	260	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1020	<b>Configuration "B" - Cargo with MHC</b>									
	Cargo with MHC	Appendix BA-9	30	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1040	<b>Configuration "D" - Load Handling System</b>									
	Load Handling System	Appendix BA-8	300	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1050	<b>Configuration "E" - Cargo, MRT variant</b>									
	Cargo, MRT variant	Appendix BA-14	60	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
2010	Armour Protection System	Appendix BA-6	150	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
2011	Trailer run flat insert	Appendix BA-6	24	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
3010	Trailer	Appendix BA-11	240	EA	\$ -	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
4010A	APS Test coupons Opaque Armour	Annex B para 4.3.3.1.2 and 4.3.3.1.4	50	EA	\$ -	\$ -	\$ -	\$ -	\$ -	DRDC Valcartier, QC
4010B	APS Test coupons Transparent Armour	Annex B para 4.3.3.1.2 and 4.3.3.1.4	10	EA	\$ -	\$ -	\$ -	\$ -	\$ -	DRDC Valcartier, QC

**Scenario 3 Table 2 Total Price** \$ -

**Table 4 - ILS Data and Deliverables**

Contract Line Item Number (CLIN)	Deliverable End Item	Quantity of serials	Unit of Issue	Unit Price	Extended Price	Destination
<b>5000</b>	<b>Training Deliverables</b>					
5010	Familiarization Training Course	3	EA	\$ -	\$ -	Contractor's Facility
5020	<b>Initial Cadre Training (ICT) Pilot Courses</b>					
5021	Operator ICT Pilot Instructor Course	1	EA	\$ -	\$ -	Contractor's Facility
5022	Vehicle Technician ICT Pilot Instructor Course	1	EA	\$ -	\$ -	Contractor's Facility
5023	Material Technician ICT Pilot Instructor Course	1	EA	\$ -	\$ -	Contractor's Facility
<b>5030</b>	<b>ICT Operator Instructor Training Courses</b>					
5031	ICT Operator @ LFAA	3	EA	\$ -	\$ -	CFB Gagetown
5032	ICT Operator @ SQFT	4	EA	\$ -	\$ -	CFB Valcartier
5033	ICT Operator @ LFCA	4	EA	\$ -	\$ -	CFB Petawawa
5034	ICT Operator @ LFWA	5	EA	\$ -	\$ -	CFB Edmonton
5035	ICT Operator @ 25CFSD	1	EA	\$ -	\$ -	25 CFSD, Montreal
<b>5040</b>	<b>ICT Technician Instructor Training Courses</b>					
5041	ICT Vehicle Technician Instructor Training Course	7	EA	\$ -	\$ -	CFB Borden
5042	ICT Material Technician Instructor Training Course	1	EA	\$ -	\$ -	CFB Borden
<b>Table 4 Total Price</b>					\$ -	

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 4 – Evaluation Procedures and Basis of Selection

Attachment 5 – Technical Proposal Evaluation Plan

Section 1 - Introduction

## **1. Introduction**

### **1.1 Purpose**

- 1.1.1** The purpose of this document is to describe the approach, methodology and process that will be used for the technical evaluation of the proposals received in response to the RFP for the Acquisition and ISS Contracts for the SMP component of the MSVS Project.

### **1.2 Objectives of the Evaluation Procedures and Basis for Selection**

- 1.2.1** The objectives of the technical evaluation process are to:
- a) Identify those proposals that are compliant with all the mandatory technical requirements found throughout the RFP in both the Acquisition and the ISS Model contract;
  - b) Rate the Bidders based on their responses to the technical requirements;
  - c) Provide an overall score for each compliant proposal, which takes into account the mandatory and rated management and technical requirements.

## **2. Proposal Evaluation Process**

### **2.1 Evaluation**

- 2.1.1** Each Proposal will be evaluated solely on its contents. Mandatory and rated requirements will be evaluated based on the Bid response as per the instructions detailed under Part 3 and, as well, on results obtained during the Technical Compliancy Program (TCP) to be held at the Nevada Automotive Test Center (see Part 4, Attachment 5, Section 2, paragraph 2.6).
- 2.1.2** For any given mandatory technical requirement that will be subject to evaluation under the TCP and where a Proof of Compliance is also required as part of the bid proposal for that same mandatory requirement, the Bidder must meet the requirement in both areas (TCP and POC) in order to fully meet this specific mandatory requirement.

### **2.2 Specific Evaluation Requirements**

- 2.2.1** The Acquisition Bid Requirements will be evaluated as described in Section 2 as follows:
- a. Management plans, surveys and reports;
  - b. EHS Management plans, surveys and reports;
  - c. Technical requirements;
  - d. Survivability requirements;
  - e. Interactive Electronic Technical Manual (IETM); and
  - f. Technical Compliancy Program (TCP).

**2.2.2** The ISS Bid Requirements will be evaluated as described in Section 3 as follows:

- a. Electronic Information Environment (EIE);
- b. Life Cycle Cost (LCC);
- c. Draft ISS plan; and
- d. Corporate Experience and Capability.



# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 4 – Evaluation Procedures and Basis of Selection

Attachment 5 – Technical Proposal Evaluation Plan

Section 2 – Acquisition Proposal Evaluation Plan

<b>1.0</b>	<b>MANAGEMENT AND ACQUISITION TECHNICAL EVALUATION OVERVIEW.....</b>	<b>3</b>
<b>2.0</b>	<b>EVALUATION PLAN .....</b>	<b>3</b>
<b>2.1</b>	<b>MANAGEMENT PLANS, SURVEY, AND REPORT .....</b>	<b>3</b>
<b>2.2</b>	<b>EHS Management Plans, Report and Survey .....</b>	<b>9</b>
<b>2.3</b>	<b>Technical Requirements .....</b>	<b>20</b>
<b>2.4</b>	<b>Survivability Requirements.....</b>	<b>21</b>
<b>2.5</b>	<b>Interactive Electronic Technical Manual (IETM) .....</b>	<b>21</b>
<b>2.6</b>	<b>Technical Compliancy Program (TCP) .....</b>	<b>21</b>

## 1.0 Management and Acquisition Technical Evaluation Overview

The Acquisition technical proposal Mandatory Criteria and Technical Score can be found in Part 4, Attachment 5, Section 4.

In this section, each assessed rated requirement will be given a percentage mark between zero (0) and one hundred percent (100%) in accordance with the "Percentage of Points to Allocate" column of Table 2.2 below. For each of those assessed rated requirements, the mark will then be multiplied by the associated available points (object points) as outlined in Part 4, Attachment 5, Section 4 which will give a number of points for each rated requirement. The score for the Acquisition Technical evaluation will then be the sum (rounded to four (4) decimals) of all points.

## 2.0 Evaluation Plan

### 2.1 Management Plans, Survey, and Report

- 2.1.1** Submission of all management plans, surveys and reports identified in paragraph 1.1 of the Proposal Preparation Instructions (Part 3, Attachment 3, Section 2) is a mandatory requirement.
- 2.1.2** Although not all sections of each plan listed under table 2.3 are evaluated, the Bidder should provide a complete draft plan as part of its proposal. Items identified as "Not evaluated" are still requested at the time of bid submission.
- 2.1.3** The individual sections and corresponding weightings of the Management Plans are identified in Table 2.3. Score percentages will be awarded for each section in accordance with Table 2.2.

Table 2.2 – Scoring Guide for Management Plans	
Assessment of Section of Document	Percentage of Points to Allocate
This section of the draft document demonstrates that the Bidder fully understands the requirements and the final version will need no additional clarification or revision in this section; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which addresses the required elements listed in the Data Item Description (DID).	100%
Most portions of this section of the draft document demonstrate that the Bidder fully understands the requirements and the final version will need minimal additional clarifications or revisions in this section; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which address at least 80% of the required elements listed in the DID.	85%
Most portions of this section of the draft document demonstrate that the Bidder fully understands the requirements and the final version will need very little additional clarification or revision in this section; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which address at least 60% required elements listed in the DID.	75%

<b>Table 2.2 – Scoring Guide for Management Plans</b>	
<b>Assessment of Section of Document</b>	<b>Percentage of Points to Allocate</b>
This section of the draft document demonstrates that the Bidder generally understands the requirements but close to half of the section will need clarification and/or revision; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which address 40-60% of the required elements listed in the DID.	50%
More than half of this section of the draft document does not clearly demonstrate that the Bidder understands the requirements and final version will need major clarification and/or revision in this section; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which address less than 40% of the required elements listed in the DID.	0%

**2.1.4** The Bidder will be awarded a percentage mark for each of its plan submissions based on the sum of the individual elements score percentages. The score percentages will be calculated taking into account the weight factor and the “percentage of points allocated” (as per Table 2.2 above) associated with each element. The following table is provided as an example only to illustrate this step:

<b>Integrated Testing and Support Plan</b>	<b>Weight Factor</b>	<b>Percentage of Points Allocated</b>	<b>Score Percentage</b>
Support to DND Testing	1/5	100%	$1/5 \times 100\% = 20\%$
First Production Vehicle Testing (FPVT)	1/5	75%	$1/5 \times 75\% = 15\%$
APS Survivability Validation Testing tasks	1/5	75%	$1/5 \times 75\% = 15\%$
Quality Assurance inspections	1/5	50%	$1/5 \times 50\% = 10\%$
Elements in place	1/5	75%	$1/5 \times 75\% = 15\%$
<b>Percentage Mark =</b>			<b><math>20\% + 15\% + 15\% + 10\% + 15\% = 75\%</math></b>

**2.1.5** It is a mandatory requirement that the Bidder achieve an overall average percentage mark of no less than 60% for all five (5) Management Plans listed in Table 2.3 below. The percentage mark for each Management Plan will be used in calculating the overall average percentage mark for all five (5) Management Plans. The following table is provided as an example only to illustrate this step:

<b>Management Plans</b>	<b>Percentage Mark</b>
Project Management Plan	95%
Systems Engineering Management Plan	55%
Quality Assurance Plan	82%

Integrated Testing and Support Plan	75%
Integrated Logistics Support Plan	51%
<b>Overall Average Percentage Mark =</b>	<b>(95%+55%+82%+75%+51%)/5=71.6%</b>

In the above example the Bidder achieved an overall average percentage mark of 71.6% and satisfies the 60% mandatory requirement. In this case the Bidder would be considered responsive for this evaluation criteria.

<b>Table 2.3 – Detailed Section Evaluation Breakdown Structure for Management Plans</b>		
<b>Title</b>	<b>Weight Factor</b>	<b>Score percentage</b>
<b>Project Management Plan</b>	<b>N/A</b>	<b>N/A</b>
▪ Overview	Not evaluated	
▪ Organization	Not evaluated	
▪ Management Process	Not evaluated	
▪ Integration Management	1/15	
▪ Subcontractor Management	1/15	
▪ Master Project Schedule (MPS) IAW DID SMP-PM-003, the delivery constraints provided at Annex B, Paragraph 5.9, and Annex B, Appendix BJ (SMP Schedule Constraints), and Annex I, all of Part 7	5/15	
▪ Schedule Management and Control	2/15	
▪ Resource Allocation	Not evaluated	
▪ Budget Control	Not evaluated	
▪ Quality Assurance	2/15	
▪ Performance Monitoring & Reporting	Not evaluated	
▪ Progress Reporting	1/15	
▪ Communications	Not evaluated	
▪ Problem Identification and Resolution	2/15	
▪ Project Work Tasks / Elements Closing	Not evaluated	
▪ Process Auditing & Improvement	Not evaluated	
▪ Risk Management	1/15	
▪ Data Management	Not evaluated	
▪ Change Control Processes	Not evaluated	
▪ Action Item Management	Not evaluated	
<b>Systems Engineering Management Plan</b>	<b>N/A</b>	<b>N/A</b>
▪ Vehicle Cab / Chassis development	1/9	
▪ APS development	1/9	
▪ Gun Tractor, Cargo, Cargo with Crane, and LHS variant development	1/9	
▪ Trailer development	1/9	

▪ Testing and Test Support	1/9	
▪ Quality Assurance	Not evaluated	
▪ Quality Control	1/9	
▪ Technical Data Management	1/9	
▪ Configuration Management	1/9	
▪ Elements In Place	1/9	
▪ Testing, Quality and Acceptance Plan	Not evaluated	
▪ Major Subcontractors	Not evaluated	
▪ Management/Organization	Not evaluated	
▪ Relationships	Not evaluated	
▪ Technical Reviews and Meetings	Not evaluated	
<b>Quality Assurance Plan</b>	<b>N/A</b>	<b>N/A</b>
▪ Elements in Place	1/4	
▪ Major Subcontractors	1/4	
▪ Management / Organization	1/4	
▪ WBS/Schedule of Activities and Milestones	Not evaluated	
▪ Relationships	Not evaluated	
▪ Meetings and Reviews	Not evaluated	
▪ Quality Conformance Inspection (QCI)	1/4	
<b>Integrated Testing and Support Plan</b>	<b>N/A</b>	<b>N/A</b>
▪ Support to DND testing;	1/5	
▪ First Production Vehicle Testing (FPVT)	1/5	
▪ APS Survivability Validation Testing tasks	1/5	
▪ Quality Assurance Inspections.	1/5	
▪ Elements in place	1/5	
▪ Major Subcontractors	Not evaluated	
▪ Management / Organization	Not evaluated	
▪ WBS/Schedule of Activities and Milestones	Not evaluated	
▪ Relationships	Not evaluated	

<b>Integrated Logistics Support Plan</b>	<b>N/A</b>	<b>N/A</b>
▪ Instructions under 10.1. to 10.3. pertaining to plan's format and layout.	Not Evaluated	
▪ Introduction	Not Evaluated	
▪ Management/Organisation	Not Evaluated	
▪ Schedule of Activities and Milestones	Not Evaluated	
▪ Relationships	Not Evaluated	
▪ Contractor Support for the Vehicle, APS and Trailer and their associated equipment	N/A	
○ LSA;	2/11	
○ Supply support;	3/11	
○ Special Tools and Test Equipment;	1/11	
○ Technical Publications;	2/11	
○ Training support;	1/11	
○ Warranty support;	1/11	
○ Fielding; and	1/11	
○ EHS Management.	Not Evaluated	
▪ Supportability Engineering	Not Evaluated	



## **2.2 EHS Management Plans, Report and Survey**

**2.2.1** The individual sections and corresponding weightings for the Environmental Health and Safety Impact Report (EHSIR) and Contractor Capabilities and Facility Survey (CCFS) are as follows:

**2.2.1.1** EHSIR (Table 2.4) - The Total Score for the EHSIR will be calculated by adding up all individual element scores. The Total Score will then be converted into a percentage mark for the EHSIR; and

**2.2.1.2** CCFS (Table 2.5) - The Total Score for the CCFS will be calculated by adding up all individual element scores. The Total Score will then be converted into a percentage mark for the CCFS.

### **2.2.2 EHSIR Evaluation Details**

<b>Table 2.4– Detailed Section Evaluation Breakdown Structure for EHSIR</b>			
<b>Criterion</b>	<b>Rating to be Used</b>	<b>Weight Factor</b>	<b>Element Score</b>
In order to be awarded points for this requirement, the Bidder must complete the applicable portions of DID SMP-IL-024 as identified in the Criterion column below.			
Design (10.2.3.1)	The Bidder will be awarded one (1) point for each positive EHS impact, which is not rated elsewhere within the bid submission, as identified and presented within the design paragraph (10.2.3.1) of the EHSIR DID SMP-IL-024 to a maximum of 10 points.	10/100	
Table of Hazardous Products (10.2.3.3), Annex E and Annex B (all MSDSs) of the DID	<p>See Article 2.2.2.3 below for the detailed scoring mechanism utilized for this section.</p> <p>In order to be awarded points the Bidder must complete the Table of Hazardous Products and MSDS from Annexes B and E of SMP DID-IL-024 in Part 7 for Cargo Mobile Repair Truck (MRT) variant of the MSVS.</p> <p>MSDS in the Bidder's current format is acceptable at the time of the bid submission. The MSDS data will be used to calculate a score based on the MSDS data substances listed. A low score indicates a more environmentally friendly solution.</p> <p>Refer to Articles 2.2.2.1 to 2.2.2.4 below, inclusive for how the Table of Hazardous Products will be scored.</p>	90/100	
<b>Total Score for the EHSIR (100 pts = 100%)</b>			

#### **2.2.2.1 Hazardous Products Ranking Methodology**

**2.2.2.1.1** Material Safety Data Sheet(s) (MSDS) are required with the bid for the Cargo Mobile Repair Truck (MRT) variant of the

MSVS. The bidder is to submit only one representative MSDS for each product from a representative supplier that is used as part of original factory fill. If more than one MSDS per commodity is provided, only one MSDS will be counted for that commodity in the evaluation. To help clarify this requirement, the following cases are provided to illustrate the need for MSDS submissions:

Case 1: 15W40 Engine oil from supplier A and a 15W40 Engine oil from Supplier B with the same performance level are used in the original fill of the MRT. In this case, only one MSDS from one of the suppliers is to be submitted, regardless of oil product packaging (1L, 20L or 205L)

Case 2: The MRT is filled with 15W40 Engine oil from Supplier A of a specified performance level and 10W30 engine oil from Supplier B in a different location with a different performance level. In this case, separate MSDSs are to be submitted for bid evaluation for each product.

Case 3: 15W40 Engine oil from Supplier A is provided in different packaged sizes. Only one MSDS is to be provided for bid evaluation.

Case 4: The MRT is filled with 15W40 Engine oil from Supplier A of a specified performance level and 10W30 engine oil from Supplier A with the same performance level in a different location. In this case it is likely that Supplier A may have included both products in the same MSDS. If this is the case, the bid submission is to note this and the same MSDS will be used for both product evaluations. In the event that Supplier A has separate product MSDSs, then each MSDS is to be submitted separately for bid evaluation.

Case 5: The MRT is filled with 15W40 Engine oil from Supplier A of a specified performance level and 10W30 engine oil from Supplier A with a different performance level in a different location. In this case, if Supplier A has included both products in the same MSDS then this is to be noted in the bid submission and the same MSDS will be used for both product evaluations. In the event that Supplier A has separate product MSDSs, then each MSDS is to be submitted separately for bid evaluation.

**2.2.2.1.2** For assessment purposes, the MSDS must disclose the chemical ingredient information along with its Chemical Abstract Service Number (CAS number), % composition (the Bidder may provide confidential information in a separate document), and Volatile Organic Compound (VOC) content where applicable. Note: Proprietary information will be treated

with confidentiality. If the CAS number is not submitted, the MSDS for the major subsystem or activity will be excluded from the evaluation.

**2.2.2.1.3** No controlled products will be accepted, should a technically feasible and less hazardous alternative be available. Controlled products are defined herein as products containing substances:

- a. regulated and proposed to be regulated under the Canadian Environmental Protection Act (CEPA);
- b. listed in Schedule 1, Toxic Substances List under CEPA;
- c. targeted chemicals subject to the National Pollutant Release Inventory (NPRI);
- d. targeted by the Chemicals Management Plan– List of Challenge Substances; and/or
- e. targeted under the Accelerated Reduction/Elimination of Toxic Substances (ARET) Program.

**2.2.2.2** Product Evaluation Criteria:

**2.2.2.2.1** Each hazardous product in the Hazardous Products Table will be scored based upon the presence of the highest scored controlled substance within the product and identified in the product's MSDS.

**2.2.2.2.2** The sum of all hazardous product scores will be used to obtain a Bidder's hazardous products grand total score. A comparative assessment of the Bidder's hazardous products grand total score against the Bidder with the lowest score will be done to obtain an overall Bid score (the lowest score being highest rated).

**2.2.2.2.3** The assessment of a product will consist of three parts. **Part I** is a product score based on an assessment of the controlled chemical ingredients contained in it. **Part II** is the total summation of each hazardous product scores into a Bidder's hazardous products grand total score. Finally, **Part III** is a comparative assessment of each Bidder's hazardous products grand total score against the Bidder with the lowest grand total score to determine each score allocation.

**2.2.2.2.4** Targeted substances include those substances/chemicals that are included within the Accelerated Reduction/Elimination of Toxics program (listed in Annex G- Acceleration Reduction / Elimination of Toxics (ARET) Substance List of DID SMP-IL-024), National Pollutant Release Inventory (NPRI, [http://www.ec.gc.ca/pdb/npri/npri\\_home\\_e.cfm](http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm)) and/or List of Challenge Substances (<http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list-eng.php>).

**2.2.2.3** Product Scoring

**2.2.2.3.1** Step 1: Points will be awarded to the hazardous product based on controlled substances contained in the product. The product score is based on the highest rated substance listed in the MSDS according to the below:

- a. Product containing any regulated substances = 10;
- b. Product containing substances in Schedule I of the Canadian Environmental Protection Act (CEPA) and any proposed to be regulated substance = 8;
- c. Product containing any targeted substances = 5;
- d. Product containing no controlled substances = 0.

**2.2.2.3.2** Step 2: Bidder's Hazardous Product Grand Total Score is a total summation of each hazardous product scores into a Bidder's hazardous products grand total score

**2.2.2.3.3** Step 3: Bidder's final score allocation:

The Bidder with the lowest products grand total score (obtained from Step 2) will be awarded 100% of the associated points available for this requirement identified in Table 2.4. All other Bidders will receive a final score allocation based on a comparative assessment with the Bidder that achieved the lowest Hazardous Product Grand Total Score. The Bidder's final score allocation will be calculated as follows:

(Lowest hazardous products grand total score Bidder / hazardous products grand total score Bidder) \* Table 2.4 weight factor pts

#### **2.2.2.4 Penalty**

**2.2.2.4.1** The penalty will only be applied if there are two or more bidders.

**2.2.2.4.2** Bids with a number of products equal to or less than the average number of products in all bid submissions minus the standard deviation will be penalized with a deduction of 75% of the available weight factor points identified in Table 2.4 from their final score allocation. An example of such penalty calculations can be summarized as follows:

$$\sigma = \sqrt{\frac{\sum (X - \bar{X})^2}{N}}$$

Where

$\sigma$  = standard deviation

$x$  = the total number of products in a bid

$\bar{X}$  = the mean of products in a bid

$N$  = the total number of bids

**2.2.2.4.3** Consider Bids (B) identifying the following number of products:  
B1=4, B2=2, B3=5, B4=8, B5=6;

**2.2.2.4.4** These five data points have the mean of 5:  $(4+2+5+8+6)/5 = 5$ ;

**2.2.2.4.5** To calculate the population standard deviation, first compute the difference of each data point from the mean, and square the result of each:

$$(B1 - \text{mean}) = 4 - 5 = (-1)^2 = 1;$$

$$(B2 - \text{mean}) = 2 - 5 = (-3)^2 = 9;$$

$$(B3 - \text{mean}) = 5 - 5 = (0)^2 = 0;$$

$$(B4 - \text{mean}) = 8 - 5 = (3)^2 = 9;$$

$$(B5 - \text{mean}) = 6 - 5 = (1)^2 = 1.$$

**2.2.2.4.6** Next compute the average of these values, and take the square root. Therefore the standard deviation is the square root of  $(20/5)$  or the square root of 4, which is then 2. In the case illustrated above Bid 2 would be penalized by a deduction of 75% of the weight factor points in Table 2.4 from their Final Score allocation. After applying penalty points to those bids with a number of products less than the mean minus the standard deviation, the remaining bids will be rescored based upon the bid remaining with the lowest grand total score. Any bid stating that it has no hazardous products at all shall be given 0 points regardless. Any resulting negative score will be adjusted to zero points.

### 2.2.3 CCFS Evaluation Details

<b>Table 2.5– Detailed Section Evaluation Breakdown Structure for CCFS</b>			
In order to be awarded points for this requirement, the Bidder must complete the applicable portions of DID SMP-IL-025 as identified in the Criterion column below.			
<b>Criterion</b>	<b>Rating to be Used</b>	<b>Weight Factor</b>	<b>Element Score</b>
Regulatory Compliance	<p>Does the Bidder comply with all applicable Canadian EHS regulations and codes of practice? Canadian legislation can be found at sites such as: <a href="http://laws-lois.justice.gc.ca/Search/">http://laws-lois.justice.gc.ca/Search/</a>.</p> <p>In order to be awarded points for this requirement the Bidder must attach a list to identify which acts, regulations, etc., they comply with.</p> <p>Points will be awarded as follows:</p> <p>Yes and a list of acts/regulations is provided – 10 points  Yes, but no list of acts/regulations is provided / “No” response / Left Blank - 0 points</p>	10/100	
Regulatory Compliance History	<p>The Bidder and/or its officers have been without an Environmental Health and Safety charge or offence anywhere within the last five years?</p> <p>In order to be awarded points for this requirement the Bidder must be without an EHS charge or offence <b>or</b> provide an explanation of how it was resolved.</p> <p>Points will be awarded as follows:</p> <p>Yes – 10 points  No, with explanation provided – up to 5 points based on the percentage of charges or offences resolved.  No, without explanation provided / Left Blank – 0 points</p>	10/100	

<b>Table 2.5– Detailed Section Evaluation Breakdown Structure for CCFS</b>			
Environmental Management Policy	<p>Has the Bidder developed an Environmental policy?</p> <p>In order to be awarded points for this requirement the Bidder must with this survey attach a copy of the formally issued Environmental policy currently in force within the Bidder's business.</p> <p>Points will be awarded based on the degree to which the submitted policy is compliant with the ISO 14001 policy requirements as identified in Section 4.2 of the ISO 14001 Standard.</p> <ul style="list-style-type: none"> <li>• full compliance – 10 points</li> <li>• Partial points will be based upon the percentage of the ISO 14001 policy requirements that are outlined in the submitted policy.</li> <li>• Policy does not contain any applicable ISO 14001 elements – 0 points</li> <li>• No Environmental Policy submission / Left Blank – 0 points</li> </ul>	10/100	

<b>Table 2.5– Detailed Section Evaluation Breakdown Structure for CCFS</b>			
Occupational Health and Safety (OHS)	<p>Has the Bidder developed an OHS policy?</p> <p>In order to be awarded points for this requirement the Bidder must with this survey attach a copy of the formally issued OHS policy currently in force within the Bidder's business</p> <p>Points will be awarded based on the degree to which the submitted policy is compliant with the Occupational Health and Safety Assessment Series (OHSAS) -- 18001 policy requirements as identified in Section 4.2 of the OHSAS 18001 Standard.</p> <ul style="list-style-type: none"> <li>• full compliance – 10 points</li> <li>• Partial points will be based upon the percentage of the OHSAS 18001 policy requirements that are outlined in the submitted policy.</li> <li>• Policy does not contain any applicable OHSAS 18001 elements – 0 points</li> <li>• No OHS Policy submission / Left Blank – 0 points</li> </ul>	10/100	



<b>Table 2.5– Detailed Section Evaluation Breakdown Structure for CCFS</b>			
Environmental Management System (EMS)	<p>Does the Bidder have an EMS and is that system ISO 14001 certified?</p> <p>In order to be awarded points for this requirement the Bidder must attach:</p> <ul style="list-style-type: none"> <li>a copy of a current (issued within last 3 years) ISO 14001 registration certificate; <b>or</b></li> <li>a copy of the organizations EMS.</li> </ul> <p>For the ISO 14001 certification, points will be awarded as follows:</p> <p>Yes and a Certificate is provided – 10 points;  Yes, but no Certificate is provided / “No” response / Left Blank – 0 points</p> <p><b><u>(or)</u></b></p> <p>For the organization’s EMS, points will be awarded based on the degree to which the organization’s EMS is compliant with the ISO 14001:2004 EMS-Framework requirements and its applicable sub clauses as identified in Section 4.0 of ISO 14001:2004.</p> <ul style="list-style-type: none"> <li>full compliance – 10 points</li> <li>Partial points will be based upon the percentage of the ISO 14001 requirements (sub-clauses) that are outlined in the management system demonstrated in the submitted EMS.</li> <li>EMS does not contain any applicable ISO 14001:2004 elements) – 0 points</li> <li>No EMS submission / Left Blank – 0 points</li> </ul>	10/100	

<b>Table 2.5– Detailed Section Evaluation Breakdown Structure for CCFS</b>			
Personnel Training – Hazardous Materials and Controlled Goods	<p>Are the Bidder's employees currently trained on the identification, classification and regulatory requirements pertaining to the safe use of hazardous materials/controlled products including labeling and Material Safety Data Sheets (MSDSs)  [Note: in Canada this is known as WHMIS training]</p> <p>In order to be awarded points for this requirement the Bidder must identify the number of personnel trained during the last 3 years in the area of the work to be conducted. (Note that training records may be verified);</p> <p>Points will be awarded as follows:</p> <p>Yes and information on number of personnel trained is provided– 10 points  Yes, but no information on number of personnel trained is provided /  No personnel trained / Left Blank – 0 points</p>	10/100	
Personnel Training – Dangerous Goods	<p>Are the Bidder's employees currently trained on the transportation of dangerous goods?</p> <p>In order to be awarded points for this requirement the Bidder must identify the number of personnel trained in transportation of dangerous goods during the last 3 years in the area of the work to be conducted. (Note that training records may be verified);</p> <p>Points will be awarded as follows:</p> <p>Yes and information on number of personnel trained is provided – 10 points  Yes, but no information on number of personnel trained is provided /  No personnel trained / Left Blank – 0 points</p>	10/100	

<b>Table 2.5– Detailed Section Evaluation Breakdown Structure for CCFS</b>			
Personnel Safety – Protective Measures	<p>Are personnel protective equipment (PPE) and engineering controls in place to mitigate Environmental Health and Safety Risks?</p> <p>In order to be awarded points for this requirement the Bidder must identify the personnel protective equipment (PPE) and engineering controls.</p> <p>Points will be awarded as follows:</p> <p>Yes and information on PPE and engineering controls is provided – 10 points  Yes, but no information on PPE and engineering controls is provided / No PPE and controls in place / Left Blank – 0 points</p>	10/100	
Hazardous Materials Management	<p>Does the facility have a hazardous material inventory management system in place for their receipt, storage, use and disposal of hazardous material?</p> <p>In order to be awarded points for this requirement the Bidder must:</p> <ul style="list-style-type: none"> <li>describe in detail how hazardous material, including hazardous wastes, are accounted for within the facility; <b>or</b></li> <li>provide a copy of the management system manual,</li> </ul> <p>Points will be awarded as follows:</p> <p>Yes and detailed description of management system is provided – 10 points  Yes, but no detailed description of management system is provided / No management system in place / Left Blank – 0 points</p>	10/100	

<b>Table 2.5– Detailed Section Evaluation Breakdown Structure for CCFS</b>			
Emergency Response	<p>Does the facility have a comprehensive Emergency Response Plan, including spills, in place?</p> <p>In order to be awarded points for this requirement the Bidder must provide a copy of the Emergency Response Plan.</p> <p>Points will be awarded as follows:</p> <p>Yes and plan is provided – 10 points  Yes, but no plan is provided / No plan in place / Left Blank – 0 points</p>	10/100	
<b>Total Score for the CCFS (100 pts = 100%)</b>			

## **2.3 Technical Requirements**

- 2.3.1** The Bidder will be evaluated based on its response to the requirements in Appendix BA and its corresponding attachments.
- 2.3.2** Requirements identified as “SOC” in the “Proposal Compliance Methods” column of Appendix BA will be deemed compliant if the Bidder provides a signed copy of its proposal certification (Part 5, Article 2.4 – Certificate of Compliance) and (as applicable) meets the pass/fail criteria defined in Part 4, Attachment 5, Section 2, Schedule 5-2, Appendix 1 for the associated Test Profiles.
- 2.3.3** Mandatory requirements identified as “POC” in the Proposal Compliance Methods column of Appendix BA and its corresponding attachments will be deemed compliant if the Bidder provides the specific information (when applicable) and any other supporting documentation as part of its response which proves to the satisfaction of the evaluation team that the requirement is met and (as applicable) meets the pass/fail criteria defined in Part 4, Attachment 5, Section 2, Schedule 5-2, Appendix 1 for the associated Test Profiles.
- 2.3.4** Rated requirements will be evaluated IAW the “Proposal Compliance Method” (PCM) and “Technical Compliance Method” (TCM) columns and awarded a score in accordance with the “Evaluation Point Allocation” column in Appendix BA and its corresponding attachments. The evaluation of the criteria identified as “TEST” in the TCM column will be conducted IAW their associated Test Profiles in Part 4, Attachment 5, Section 2, Schedule 5-2, Appendix 1.
- 2.3.5** If the Bidder wishes to be awarded points for any particular rated requirement, the Bidder shall clearly respond to that rated requirement indicating the level of performance proposed along with any supporting POC.

**2.3.6** Should a variant-dependent response be proposed to a rated criterion, the Bidders' mark will be the one obtained by the lowest scoring solution for that criterion.

**2.3.7** For the rated requirements being tested at NATC, the Bidder will be scored based on the test, but its score cannot exceed the value obtained from its paper response.

## **2.4 Survivability Requirements**

### **2.4.1 Survivability Mandatory Requirements**

**2.4.1.1** The mandatory survivability requirements in Part 7, Annex B, Appendix BA, Attachment BA-6 will be evaluated based on the 3<sup>rd</sup> Party Test Report (i.e. the POC) submitted as part of the bid response.

### **2.4.2 Survivability Rated Requirements**

**2.4.2.1** The rated survivability requirements in Part 7, Annex B, Appendix BA, Attachment BA-6 will be evaluated and scored IAW Part 4, Attachment 5, Section 2, Schedule 5-1 (APS Survivability Scoring Methodology)

## **2.5 Interactive Electronic Technical Manual (IETM)**

**2.5.1** The Bidder will be evaluated based on its response to the requirements in Appendix BC and Part 7, Annex B, Attachment BC-1.

**2.5.2** Mandatory Requirements identified as "SOC" in the "Proposal Compliance Methods" column of Part 7, Annex B, Appendix BC and Attachment BC-1 will be deemed compliant if the Bidder provides a signed copy of its proposal certification (Part 5, Article 2.4 – Certificate of Compliance).

**2.5.3** Rated requirements will be evaluated IAW the "Proposal Compliance Methods" column of Part 7, Annex B, Appendix BC. Points will be awarded IAW the "Evaluation Point Allocation" column in Attachment BC-1 if the Bidder provides the supporting documentation in their response that proves to the satisfaction of the evaluation team that the requirement is met.

## **2.6 Technical Compliancy Program (TCP)**

**2.6.1** The Bidders will be evaluated on their test articles' results in the TCP.

**2.6.1.1** Canada will conduct the TCP to verify specific performance requirements. The TCP will consist of a configuration audit, performance testing and human factors evaluation (HFE). During the TCP, fuel consumption will be captured and will be used in the LCC cost evaluation.

**2.6.1.2** The TCP results will be documented and assessed in accordance with the Test Profiles contained in Part 4, Attachment 5, Section 2, Schedule 5-2, Appendix 1 and the HF Evaluation contained at Schedules 5-3 and 5-4. The results will be applied to the calculation described in the Technical score matrix (Part 4, Attachment 5, Section 4).

**2.6.1.3** The approach that will be taken for the point-rated requirements scoring will be the following:

- a. Bidder responses provided as per the instructions indicated in the Proposal Preparation Instructions, Part 3, Attachment 3, Section 2, will form the basis for scoring rated requirements;
- b. For those rated requirements that are tested, the equipment will be tested up to the limit of the rated requirement as proposed by the Bidder but not beyond;
- c. Bidder will be scored based on the test, but its score cannot exceed the value from its paper response (i.e. paper response will be a Bidder imposed cap/ceiling); and
- d. Bidder will be contracted to the performance specified in its proposal; in the event that Canada was unable to validate the proposed value during testing (as noted above) the value obtained during testing will be used for contracting.

**2.6.1.4** If Canada is unable to assess a mandatory requirement due to the Bidder not providing the necessary equipment and support during the TCP, the Bidder will be allowed, to the extent possible, a reasonable time, determined by Canada, to provide the support required. Failure to do so within the time allowed will render the bid non-compliant.

**2.6.1.5** If Canada is unable to assess a rated requirement due to the Bidder not providing the necessary equipment and support during the TCP, the Bidder will be allowed, to the extent possible, a reasonable time, determined by Canada, to provide the support required. Failure to do so within the time allowed, zero mark (0 pts) will be awarded for that requirement.

## **2.6.2 Technical Compliancy Method**

**2.6.2.1** The “Technical Compliancy Method (TCM)” column in Part 7, Annex B, Appendix BA and its corresponding attachments identifies the requirements that will be evaluated during the performance testing and human factors evaluation portions of the TCP and how they will be evaluated (Test or HFE). Where “TEST” appears in the TCM column, for the purpose of evaluation, the testing of that requirement will be conducted on the variant(s) identified in both the Test Matrix (see below) and detailed in the Test Profiles at Part 4, Att 5, Section 2, Schedule 5-2, Appx 1.

## **2.6.3 Test Matrix**

**2.6.3.1** The test matrix, located in Part 4, Attachment 5, Section 2, Schedule 5-2 lists the configuration audit, performance tests, and Human Factors evaluation that will be conducted as part of the TCP.

#### **2.6.4 Test Attempts**

- 2.6.4.1** Certain test profiles provide opportunity for additional attempts in the event that the Test Article incurs a fault, malfunction, or mechanical failure. If the maximum number of attempts has been reached and the Bidder's Test Article is unable to complete the test, then the results of the testing will be annotated as "Not Complete": in the case of a mandatory requirement, the Bidder will be deemed Non Compliant; in the case of a rated requirement, the no mark (0 pts) will be awarded for that requirement.

#### **2.6.5 Miscellaneous**

- 2.6.5.1** REMOVED
- 2.6.5.2** REMOVED
- 2.6.5.3** REMOVED
- 2.6.5.4** REMOVED

#### **2.6.6 Human Factors Evaluation (HFE)**

- 2.6.6.1** Canada will conduct a Human Factors Evaluation (HFE) in accordance with Part 4, Attachment 5, Section 2, Schedule 5-3. The HFE will be executed using the Bidder Cargo Variant Test Article.
- 2.6.6.2** The total HFE score will be calculated in accordance with the HFE Plan identified in Part 4, Attachment 5, Schedule 5-4.

#### **2.6.7 Information and data collection**

- 2.6.7.1** Information and documentation related to test results will be safeguarded when collected and documented by NATC. Information and test results forming part of the evaluation of bids by Canada will be designated as "Protected B".
- 2.6.7.2** Any test results collected during the TCP are for evaluation purposes only and will not be released to the Bidders.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 4 – Evaluation Procedures and Basis of Selection

Attachment 5 – Technical Proposal Evaluation Plan

Section 2 – Acquisition Proposal Evaluation Plan

Schedule 5-1 – APS Survivability Scoring Methodology



Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
APS Survivability Scoring Methodology

Schedule 5-1  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

## **TECHNICAL NOTE**

**TITLE** APS Survivability Scoring Methodology

**TASK** DEV 12RW11

## **REFERENCES**

- A. Attachment BA-6 (Armour Protection System (APS) Requirements)
- B. AEP-55 Vol 1 Ed 1, February, 2005.
- C. AEP-55 Vol 2 Ed 1, September, 2006.
- D. Schedule BA-6-1 (APS Survivability Testing Methodology)
- E. CONWEP TM-5-855-1

## **OBJECTIVE**

This document contains the scoring methodology on how the rated survivability requirements will be assessed.

## **CLASSIFIED DATA**

Classified reference data needed for IED scoring in Annex C of this schedule is grouped in Annex D of this document and will be provided to the potential Bidders IAW the instructions of Part 3 of the RFP. The same classified data is utilized in Ref. D (Schedule BA-6-1 - MSVS APS Survivability Testing Methodology).

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
APS Survivability Scoring Methodology

Schedule 5-1  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

## **ANNEX A –**

LEFT BLANK INTENTIONALLY

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
APS Survivability Scoring Methodology

Schedule 5-1  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

## **ANNEX B –**

LEFT BLANK INTENTIONALLY

## ANNEX C – SCORING METHODOLOGY

This Annex describes the methodology that will be used to score the rated performance requirements.

In order to be awarded points for those rated requirements to which the Bidder is responding, the Bidder must submit only one POC for each requirement as provided at Part 7, Annex B, Attachment BA, Appendix BA-6; the three possible POC Response Methods are detailed at Part 3, Attachment 3, Section 2. Each POC Response Method has an associated Object Points Score Factor (i.e. the maximum percentage of the available points that can be obtained) and Bidder's Scores will be calculated for each requirement using the methodology noted in detail below and applying the POC Response Method Object Points Score Factor to the Object Points available for each requirement as shown at Part 4, Attachment 5, Section 4. The POC Response Method Score Factors are provided in Table C2 below.

Table C2: Score Factor as function of POC response method.

POC	Applied to Rated Requirements for:	Object Points Score Factor (Maximum Percentage)
3 <sup>rd</sup> Party Test Report	All	100%
3D Numerical Simulation Report	Blast Mine	60%
Technical Report	Blast Mine Ballistic (Kinetic Energy)	15%

### 1.0 POC - 3<sup>RD</sup> PARTY TEST REPORT – MAXIMUM OBJECT POINTS SCORE FACTOR 100%

Provision of a 3<sup>rd</sup> Party Test Report is sufficient for ALL Survivability Rated requirements as follows:

#### 1.1 Ballistic (Kinetic Energy) Rated Requirement Scoring

If the test conducted as defined in AEP-55 Vol 1, Ed. 1, February 2005 results in a PASS:

*Bidder's Score = Object Points Available*

Else, *Bidder's Score = 0*

#### 1.2 Blast Mine – Under Wheel and Under Belly – Rated Requirements Scoring

If the tests conducted as defined in AEP-55 Vol 2, Ed. 1, September 2006 result in a PASS:

*Bidder's Score = Object Points Available*

Else, *Bidder's Score = 0*

#### 1.3 IED Fragmentation – Laboratory Test Using Fragment Simulating Projectiles (FSP) – Rated Requirement Scoring

The Object Points provided for the Laboratory Test portion are divided between the results obtained for Damaging Shots (40%) and for Penetrating Shots (60%).

Bidders are to refer to Ref D. In order to obtain the maximum score, the lab fragmentation test should be performed in multi-hit and single hit modes for the main area (MA) and in single-hit mode for the structural weak area (SWA).

The single hit mode is performed with penetrating shots only. The multi-hit mode is performed using a mix of damaging and penetrating shots.

The related variables are defined as:

Single-hit:

$V_{Pen}$  : Penetrator impact velocity

$\#_{Pen}$  : Number of penetration shots

Multi-hit:

$V_{Dam}$  : Damaging shot impact velocity,

$\#_{Dam}$  : Number of damaging pairs - each pair must be accompanied with one penetrator shot to form a multi-hit triangle as described at Ref D

$N$  : Distance between shots

Scores will be given only for tests resulting in **no** Complete Penetration (CP). In multi-hit mode, **both** the damage pair and penetrator shot must result simultaneously in **no** CP to be considered for scoring. For example, where the damage pair results in no CP but the penetrator shot penetrates the armour (or vice versa), no score will be given.

With respect to the FSP speed scoring factor, derived from Figure C1, where various speeds were used during a repeated test (for MA or SWA), the lowest one will be always considered for scoring. For example, if the damage shots are fired at X, Y and Z m/s and X is the lowest one, the scoring factor will be based on Figure C1 and using speed X.

Correspondingly, where various distances are obtained during the multi-hit test, the highest distance will be used for scoring per Figure C4.

The Bidder's score is calculated as follows:

Bidder's Score =  $S_{Lab} \times$  Object Points Available

Where  $S_{Lab} = \sum_{MA/SWA} \{ [(WF_{Dam} \times SF_{Dam}) + (WF_{Pen} \times SF_{Pen})] \times A_{prt} \}$

And where:

$WF_{Dam}$  is the weight factor for the damage part -  $WF_{Dam} = 0.4$  for MA and  $WF_{Dam} = 0$  for SWA

$SF_{Dam}$  is the total score factor for the damage part and is calculated as follows:

$$SF_{Dam} = \frac{1}{3} SF_{V_{Dam}} + \frac{1}{3} SF_{\#_{Dam}} + \frac{1}{3} SF_N$$

$SF_{V_{Dam}}$  is determined from Figure C1 and the Threshold Value at Table C3

$SF_{\#_{Dam}}$  is determined from Figure C2 and the Threshold Value at Table C3

$SF_N$  is determined from Figure C4 and the Threshold Value at Table C3

$WF_{Pen}$  is the weight factor for the penetration part -  $WF_{Pen} = 0.6$  for MA and  $WF_{Pen} = 1$  for SWA

$SF_{Pen}$  is the total score factor for the penetration part and is calculated as follows:

$$SF_{Pen} = \frac{1}{2} SF_{V_{Pen}} + \frac{1}{2} SF_{\#_{Pen}}$$

$SF_{V_{Pen}}$  is determined from Figure C1 and the Threshold Value at Table C3

$SF_{\#_{Pen}}$  is determined from Figure C2 for MA and from Figure C3 for SWA and the Threshold Value at Table C3

$A_{prt}$  is the ratio of the protected area (i.e. with **no** complete penetration) relative to the total armour area

Table C3: Threshold Values for the IED Fragmentation laboratory score factor curves				
Variable	Associated Score Factor	Threshold for 0 Score	Threshold for 100% Score	Reference Figure
$V_{Dam}$	$SF_{V_{Dam}}$	Annex D-A6	Annex D-A7	Figure C1
$V_{Pen}$	$SF_{V_{Pen}}$	Annex D-A7	Annex D-A8	Figure C1
$\#_{Dam}$	$SF_{\#_{Dam}}$	0	Equal or greater than 5	Figure C2
$\#_{Pen}$	$SF_{\#_{Pen}}$	Equal or less than 5 (for MA)	Equal or greater than 12 (for MA)	Figure C2 (for MA)
		Equal or less than 3 (for SWA)	Equal or greater than 10 (for SWA)	Figure C3 (for SWA)
$N$	$SF_N$	Equal or greater than 150 mm	Equal or less than 75 mm	Figure C4

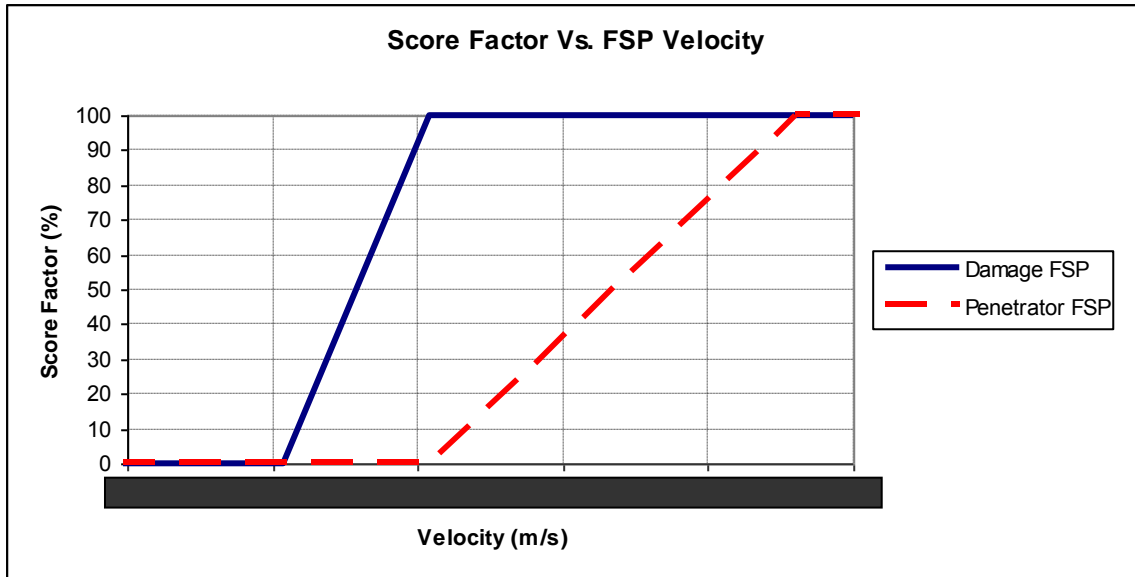


Figure C1. Score factor curve for IED lab fragmentation as function of the FSP impact velocity.

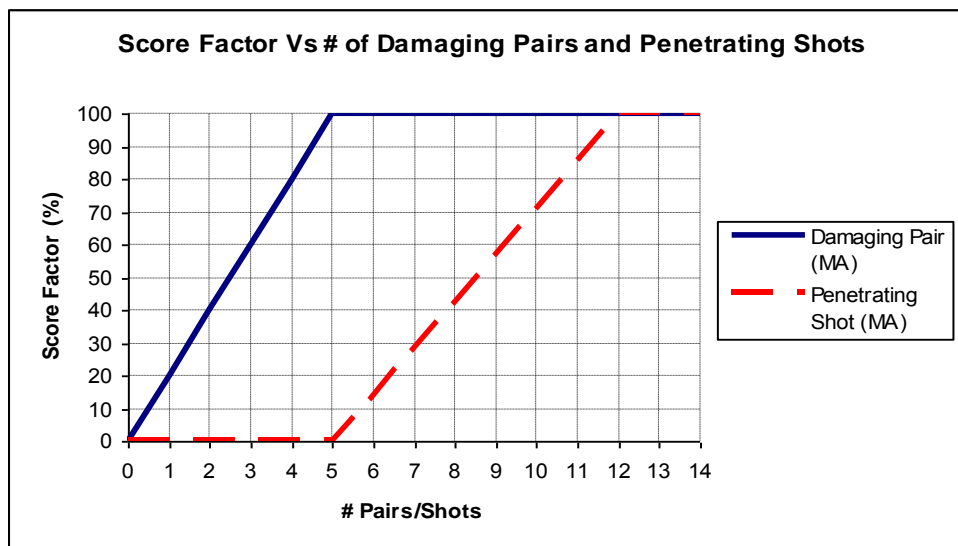


Figure C2. Score factor for MA lab fragmentation as function of number of repetitions.

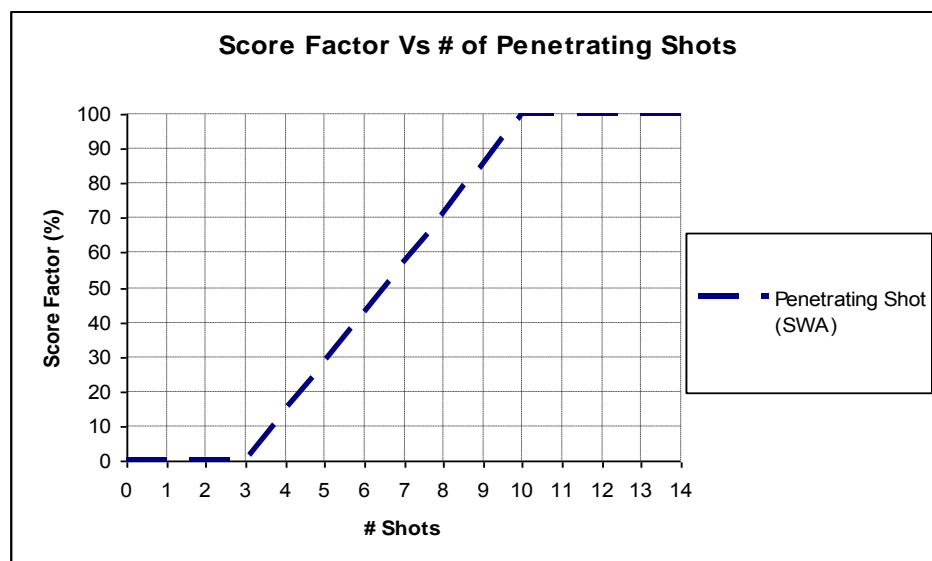


Figure C3. Score factor for SWA lab fragmentation as function of number of repetitions.



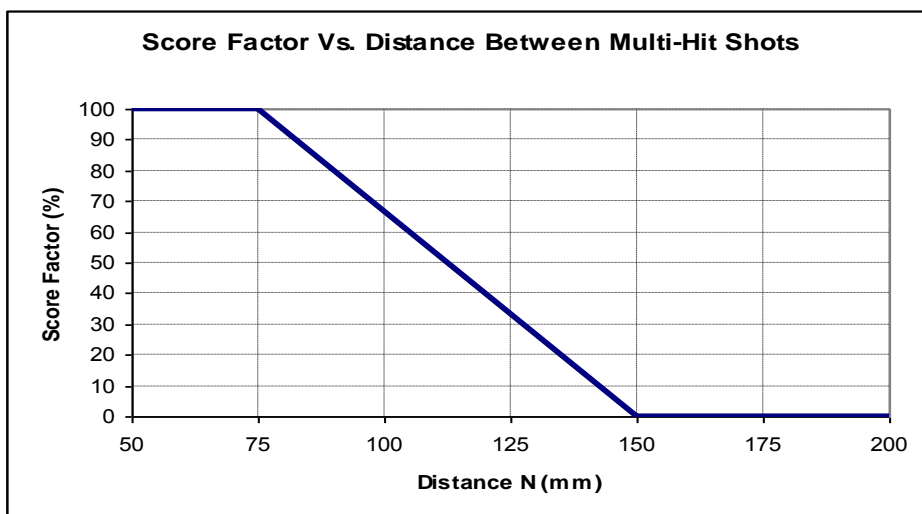


Figure C4. Score factor for IED lab fragmentation as function of shots spacing in multi-hit mode.

#### 1.4 IED Fragmentation – Field Trials (Engineered and Vehicle Targets) – Rated Requirement Scoring

The number of successful (i.e. PASS) tests will affect the score obtained by the bidder, as shown at Figure C5.

If the test conducted as defined at Ref D results in a PASS (in particular, to pass the test, there shall be no fragment CP inside of the occupant compartment):

*Bidder's Score = Score Factor from Figure C5 x Object Points Available*

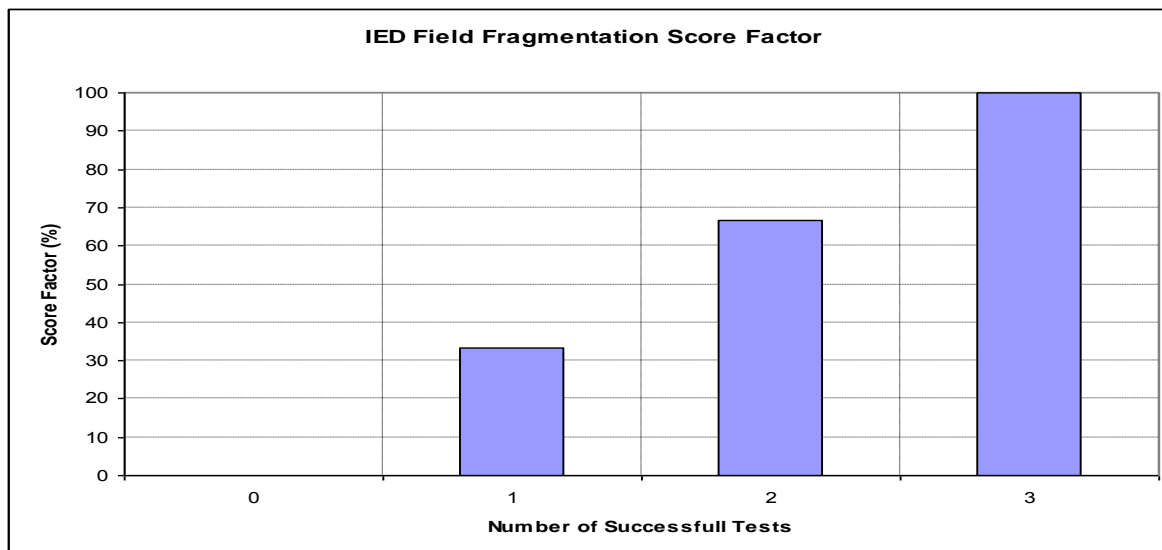


Figure C5. Scoring factor for IED fragmentation field testing as function of the number of successful tests.

### 1.5 IED Blast Rated Requirement Scoring

Scoring for IED Blast is based on the severity of the loading conditions selected for the tests. The severity of the loading is expressed in terms of the reflected impulse generated on the vehicle by the charge. Because it is not a measured value in a vehicle test, it will be calculated based on Ref E using the offset distance for the charge detonation location (see Figure C6) and the real or corrected mass of explosive. The airburst conditions and the corrected amount of explosive should be based on the actual explosive type.

The score factor will be derived from the calculated reflected impulse per Figure C6 and associated score factor provided at Figure C7.

If the test conducted as defined at Ref D results in a PASS:

*Bidder's Score = Score Factor from Figure C7 x Object Points Available*

For clarity at Figure C7, Score Factor = 100% at or above 13700 Pa.s and Score Factor = 0 at or below 1400 Pa.s

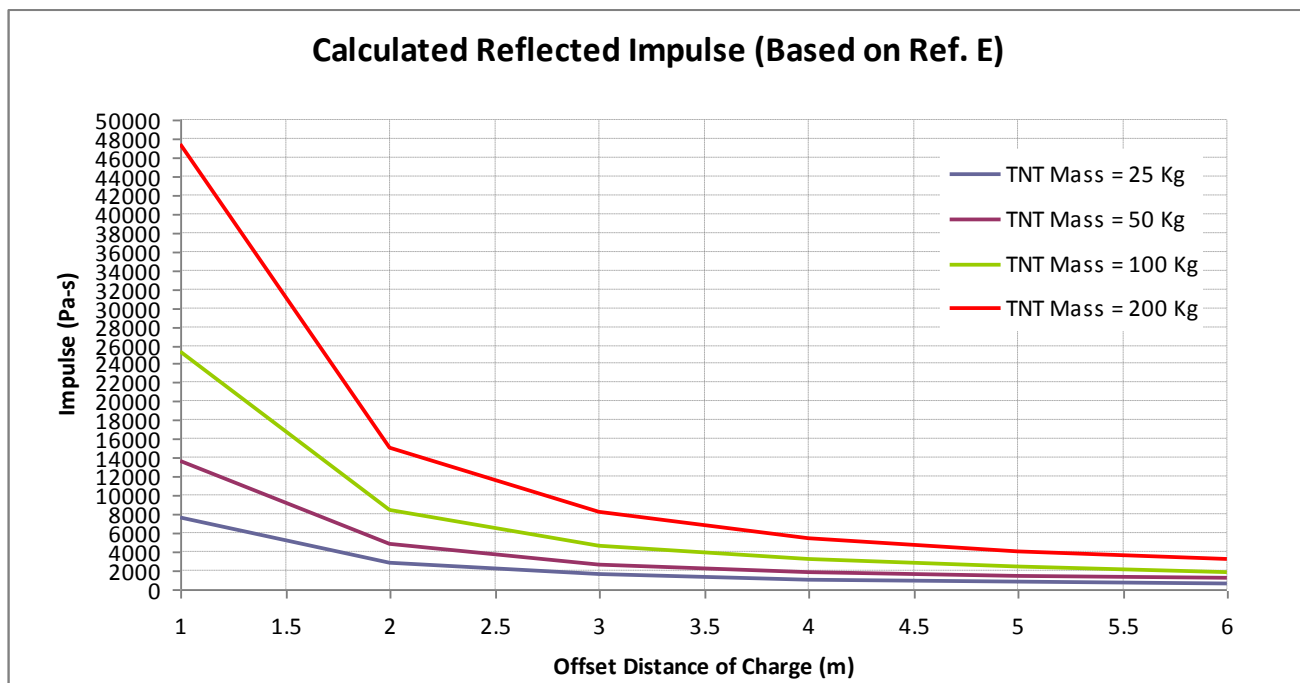


Figure C6. Calculated Reflected Impulse as function of Offset Distance of Charge and TNT Mass (based on Ref. E)

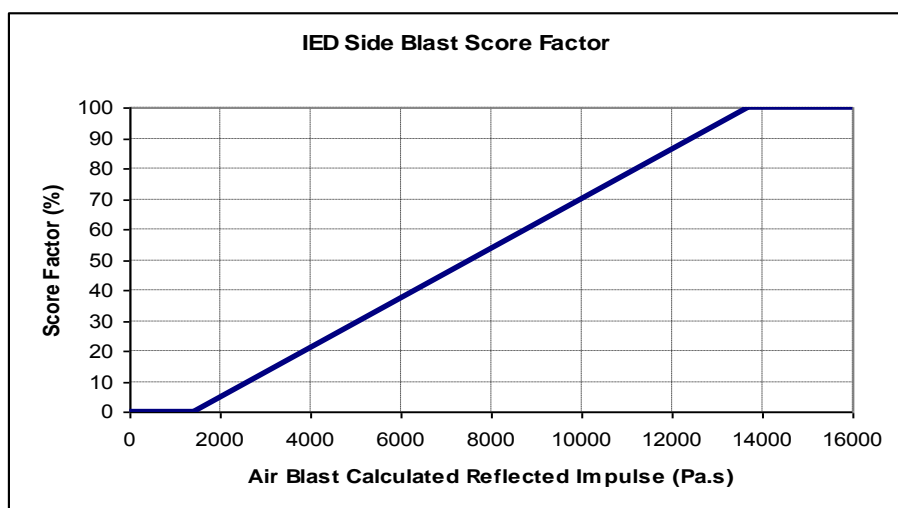


Figure C7. Scoring curve for IED side blast as function of the air blast calculated reflected impulse. For clarity, SF = 100% at or above 13700 Pa.s and SF = 0 at or below 1400 Pa.s

## **2.0 POC - 3D NUMERICAL SIMULATION REPORT – MAXIMUM OBJECT POINTS SCORE FACTOR 60%**

Provision of a 3D Numerical Simulation Report is sufficient only for the two Blast Mine Survivability Rated requirements.

For the 3D Numerical Simulation, a full vehicle model (including suspension, wheels, and seating system) must be used in the analysis. The mandatory blast mine test results (Levels 2a and 2b) will be used as a reference to validate the proposed model and create a baseline for comparison purpose (referred to as “baseline model”). Injury analysis is not required.

The analysis shall include the following dynamic parameters information:

- a) Deformation/Time history and Velocity/Time history at the foot pan (floor beneath the feet)
- b) Deformation/Time history and Velocity/Time history at the seat attachment points (floor/seat interface or roof/seat interface)
- c) Displacement/Time history and Velocity/Time history of the modeled Vehicle center of gravity.

The dynamic parameters of the proposed model will be compared to the outputs of the baseline model.

If the proposed model's centre of gravity global velocity is at least (ie equal to or greater than) 50% higher than the one obtained in the baseline model, then the Bidder's score will be based on the Score Factor obtained as follows:

Table C4: Proposed Model Dynamic Parameters	Score Factor
All dynamic parameters measured at the foot pan and seat attachment points are within 0%-10% (0% excluded, 10% included) increase relative to the baseline model	60%
All dynamic parameters measured at the foot pan and seat attachment points are within 10%-20% (10% excluded, 20% included) increase relative to the baseline model	50%
All dynamic parameters measured at the foot pan and seat attachment points are within 20%-30% (20% excluded, 30% included) increase relative to the baseline model	40%
All dynamic parameters measured at the foot pan and seat attachment points have greater than 30% increase relative to the baseline model	30%

*Bidder's Score = Score Factor from Table C4 x Object Points Available*

*Else, Bidder's Score = 0 (ie the proposed model's centre of gravity global velocity is less than 50%)*

## **3.0 POC - TECHNICAL REPORT – MAXIMUM OBJECT POINTS SCORE FACTOR 15%**

Provision of a Technical Report is sufficient only for Ballistic (Kinetic Energy) and for the two Blast Mine Survivability Rated requirements.

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
APS Survivability Scoring Methodology

Schedule 5-1  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

The Technical Report shall describe the armour materials, manufacturing technique, assembly methodology, and the series of lab tests and associated results performed as part of the Bidders' development programs. The scores will be allocated as follows:

### **3.1 Ballistic (Kinetic Energy) Rated Requirement Scoring**

If the technical report shows an improvement over the results obtained for the mandatory requirement (i.e. higher bullet speed with no complete penetration, lower amount of damage/deformation, etc.)

*Bidder's Score = 15% x Object Points Available,*

Else, *Bidder's Score = 0*

### **3.2 Blast Mine – Under Wheel and Under Belly – Rated Requirements Scoring**

For the two Blast Mine Rated Requirements (ie both are calculated separately and in the same fashion), if the technical report shows an improvement over the results obtained for the mandatory requirements (i.e. lower amount of damage/deformation, etc.),

*Bidder's Score = 15% x Object Points Available,*

Else, *Bidder's Score = 0*

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
APS Survivability Scoring Methodology

Schedule 5-1  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

## **Annex D – Classified Reference Values**

PROVIDED SEPARATELY

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06MSMP/L

Part 4 - Evaluation Procedures and Basis of Selection

Attachment 5 - Technical Proposal Evaluation

Section 2 - Acquisition Proposal Evaluation Plan

Schedule 5-2 - Test Matrix

**Test Matrix**  
**Part 4, Attachment 5, Section 2, Schedule 5-2**

					Vehicle Configurations (NOTE 10)								
			SOW Requirement References		LHS Variant (with APS)					Cargo Variant			
Test Profile #	Performance Requirement (as detailed in Appendix 1 herein)	Referenced Procedure	Mandatory	Rated	CW	GVW	GCW	GVW-R	GCW-R	GVW	GCW	GVW-R	CW
1	Configuration Audit	(NOTE 6)	N/A	N/A									
2	Mission Profile Test	NONE	BA-564			M	M						M
	REMOVED												
	REMOVED												
3	Rollover threshold	SAE J 2180		BA-531		R							
4	Ride quality (absorbed power) - 6W speeds	TOP 1-1-014		BA-645		R							
	Ride quality (half rounds) - 2.5g speeds			BA-670		R							
5	Double Lane Change	AVTP 03-160W		BA-646		R							
6	Braking (stopping distance from 88.6km/h)	TOP 2-2-608		BA-516		R							
7	Fine Grained Soil Tractive Effort	MTP 2-2-619		BA-644		R							
		TOP 2-2-604											
8	Sand Dune Maximum Gradeability	TOP 2-2-610		BA-668		R							
9	Maximum speed	TOP 2-2-602	BA-118				M						
	Maximum speed		BA-11-103				M						
	Maximum speed			BA-120			R						
	Acceleration (0km/h to 80km/h)		NONE	BA-514		R							
10	Maintain 80km/h on 2% grade.	TOP 2-2-610	BA-122			M		P					
	Maximum grade at 80km/h.			BA-542		R							
11	Longitudinal gradeability (60% grade)	TOP 2-2-610	BA-124							M		P	M
	Longitudinal gradeability (40% grade)		BA-597		M	M		P					
	Longitudinal gradeability (20% grade)		BA-369				M		P				
	Longitudinal gradeability (20% grade)		BA-11-104				M		P				
	Longitudinal gradeability (60% grade)			BA-543	R	R							
12	Side slope performance (20% grade)	TOP 2-2-610	BA-371				M						
	Side slope performance (30% grade)		BA-125 and BA-11-201								M		
N/A	Human Factor (HF) Evaluation	Attachment 5, Schedule 5-3	N/A	N/A						M			M

**NOTES:**

- 1 Mandatory requirements will be assessed at configurations identified as "M" in the test matrix. Failure will result in a non-compliant bid.
- 2 The Bidder's response to rated requirements will be assessed at configurations identified as "R" in the test matrix.
- 3 The Bidder's response to the rated payload requirements (BA-486 and BA-11-53) will be assessed via testing at configurations identified as "P" in the test matrix.  
To obtain payload points ALL "P" configuration tests must satisfy their corresponding requirements.
- 4 REMOVED
- 5 The sequence of tests will not necessarily reflect the order tests are presented in the test matrix.
- 6 The configuration audit will be conducted in accordance with the Configuration Audit test profile.
- 7 F-34 Fuel will be used during testing program
- 8 Altitude at the test site ranges from approximately 4,000ft to 10,000ft above sea level.
- 9 Test Locations:  
NATC - Nevada Automotive Test Center
- 10 Vehicle configurations are identified in the Appendix 1 to this Schedule at para 3.8.



# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06MSMP/L

Part 4 – Evaluation Procedures and Basis of Selection

Attachment 5 – Technical Proposal Evaluation Plan

Section 2 – Acquisition Proposal Preparation Instructions

Schedule 5-2 – Test Matrix

Appendix 1 – TCP details and test profiles

## **1. INTRODUCTION**

In addition to Part 3, Attachment 3, Section 2, Acquisition Proposal Preparation Instructions, Article 5, and Part 4, Attachment 5, Section 2, Acquisition Proposal Evaluation Plan, Article 2.6, of the RFP, this Appendix further details the Technical Compliancy Program (TCP) that Canada will conduct to validate select Performance and Human Factors (HF) Testing requirements.

### **1.1 Definition**

For the purpose of this Appendix, “Test Article” means the Equipment the Bidder is required to deliver at NATC as per Part 3, Attachment 3, Section 2, Article 5.2.1 (a), (b) and (c) of the RFP.

### **1.2 Overview**

The TCP is divided into three (3) categories:

1. Configuration Audit
2. Performance Testing requirements (Part 4, Attachment 5, Section 2, Schedule 5-2 and Appendix 1); and
3. Human Factors Evaluation (HFE) requirements (Part 4, Attachment 5, Section 2, Schedules 5-3 and 5-4).

## **2. GENERAL INFORMATION TO BIDDERS**

### **2.1 USA Visitor Entry Requirements**

Each member of the Bidder's team traveling to the USA (non-US Citizens) for the TCP must be in possession of a valid passport.

### **2.2 Access to NATC**

Bidders should provide a nominal list of all of their personnel who will be present at NATC during the TCP. This list can be provided to the Contracting Authority (CA) prior to the start of the TCP at NATC. This list can be amended at any time. The nominal list must include the following information:

Name

Job Title (e.g. Representative, Field Service Representative, Trainer)

Nationality

On-site Contact Information

In order to gain entrance to the NATC testing site, each member of the Bidder's team members as applicable will be required complete a International Visit Authorization Request (non –US Citizens) and a Visitor Release and Entrance Authority form similar to the forms outlined below. The Bidder wishing to visit the test site location will be responsible to obtain all appropriate authorization and visit clearances by contacting NATC directly. Contact information at NATC will be provided to bidders upon receipt of the nominal list outlined above.

Failure to complete these forms may result in Bidder representatives not being granted access to NATC. Please note that it is at the sole discretion of NATC to limit access to their site.

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

The two forms are as follows:

**Form # 1 - International Visit Authorization Request** (Part 4, Attachment 5, Section 2, Schedule 5-2, Appendix 1, Attachment 1)

To be completed by: Representatives who are not American Citizens or a permanent resident of the United States.

**Form # 2 - Visitor Release and Entrance form** (Part 4, Attachment 5, Section 2, Schedule 5-2, Appendix 1, Attachment 1)

To be completed by: All Bidder Representatives.

### **2.3 Prohibited Devices**

The Bidder is not allowed any device that can enhance, transmit/receive or record audio, video or data such as binoculars, cameras, video recorders or cell phones within the confines of NATC. This applies to equipment carried by personnel and equipment mounted on the Test Articles or any other vehicle or item brought by the Bidder.

### **2.4 Personal Protective Equipment**

Bidders must abide by the safety procedures and personal protective equipment requirements as directed by NATC. This includes such articles as safety footwear, eye protection and hearing protection. No personal protective equipment will be provided by Canada or NATC.

### **2.5 REMOVED**

### **2.6 Offices and Space Allocation**

Bidders are responsible for their own transportation to and from NATC.

Each Bidder will be assigned a designated office space/maintenance area location on the NATC grounds. The office container space will be equipped with power and internet access.

The designated office location will be randomly assigned to Bidders by Canada.

Internet access will not be available at NATC outside of the office spaces.

Parking spaces will be provided near the offices.

Bidder personnel are restricted to the office space/maintenance area at all times unless accompanied by an NATC Escort. Field Service Representatives (FSRs) will be escorted to the NATC maintenance area / bay when required.

The Bidder's Test Articles when not in maintenance or during testing, will be stored in a fenced area of NATC. Bidders will not be allowed access to the Test Articles while in that area. Access will be controlled by NATC security at night and on the weekends and by the NATC test team during the day.

All bidders and support personnel are badged as appropriate for their access level; bidders will have "Escort Required" badges for areas other than their office area.

When the maintenance of the Test Article requires a NATC maintenance area/bay, the Bidder's team will be escorted to that location and remain under escort throughout the maintenance activity. For any

maintenance activity (Daily inspection, preventive maintenance...) that can be done at the Bidder's designated maintenance area, the Test Article will be brought to the Bidder's location by NATC.

Test Articles will be deemed to be under the Bidder's safekeeping during driver training, during maintenance and whenever they are in the Bidder's designated area.

### **3. CONDUCT OF TCP**

#### **3.1 General**

The Configuration Audit and Performance Testing will be conducted by NATC. The Human Factors Evaluation will be conducted by Canada. The TCP will be performed from Monday to Friday. Canada reserves the right to perform the TCP during Saturday and Sunday should it be deemed necessary.

#### **3.2 Safety and Regulations**

NATC will provide an outline of the rules and regulations which must be respected by all personnel participating in any capacity in the TCP, including all Bidder personnel.

#### **3.3 Weekly Schedule**

A weekly schedule will be provided to Bidders at the commencement of each week.

##### **3.3.1 TESTING OUTLINE**

The following testing outline provides a high-level summary of the overall schedule for the TCP, but is representative only. The actual TCP schedule will be defined shortly after bid closing and is subject to change without notice as needed.

##### **a. Weeks 1 – 3. Performance Tests Preparation Activities**

- (1) Initial Briefing
- (2) Initial Preparation of Test Articles (to bring the Test Articles to test readiness)
- (3) Operator/User Training
- (4) Configuration Audit as per Article 4 herein.

##### **b. Weeks 4 – 17. Performance Tests**

As provided in the Test Profiles as per Article 4 herein.

##### **c. Week 16. Human Factors Evaluation Preparation Activities – Group #1**

- (1) Phases 1 and 2 (as provided at Part 4, Attachment 5, Schedule 5-3)

##### **d. Weeks 17-19. Human Factors Evaluation – Group #1**

- (1) Phase 3

##### **e. Week 20. Human Factors Evaluation Preparation Activities – Group #2**

- (1) Phases 1 and 2

##### **f. Weeks 21-23. Human Factors Evaluation – Group #2**

- (1) Phase 3

## Conduct of Testing

Prior to the formal start of each day of testing, the Test Articles will be brought to the Bidder's designated office/maintenance area by NATC so they may conduct Daily Driver Maintenance and complete the Daily Inspection Form (DIF); this should not take longer than 30 minutes to complete. Test Articles together with signed DIF are handed over to the Liaison Officer. Detailed timings will be briefed during the Initial Briefing. On the completion of the day's test activities, the Test Articles will be delivered to the Bidder's designated office/maintenance area at which time the Bidder may perform preventive maintenance as necessary.

Bidders will be advised of any anomalies or observed conditions of their respective Test Articles that were noted during testing.

Bidders will not be briefed on the results of testing.

### 3.3.2 CLOSE-OUT ACTIVITIES

At the completion of the TCP, Bidders will have a week to clean out their office and maintenance areas and to prepare their equipment and Test Articles for shipment.

## 3.4 Operator/User Training Requirements

Bidders will only be required to operate the Test Articles as part of the training provided to the NATC drivers and the DND HF Evaluators, and during short test drives.

### 3.4.1 PERFORMANCE TEST OPERATOR/USER TRAINING:

NATC Test Drivers will operate the Test Articles for the Performance Tests.

NATC test vehicle drivers/operators have the following qualifications:

- a. Class A Commercial Drivers License;
- b. have completed NATC driver training in vehicles of the same class as that requested by the SMP RFP; and
- c. will be qualified for the operation of the test vehicle for their individual test event by NATC management.

Each Bidder will have the opportunity to provide up to 16 hours of Operator/User Training to a group of 6-8 NATC Drivers. Bidders are to ensure that their proposed Operator/User training includes the following:

#### Training Outline:

##### **Classroom (cover the following subjects) - 1 hour**

- Vehicle specification
- Vehicle features and controls
- Capabilities review
- Vehicle limitations
- Payloading
- Vehicle configurations for terrain types - Highway, Gravel, Trails, Cross Country, Sand, Mud, Cold and Hot weather.

##### **Vehicle Familiarization (at the vehicle, cover the following subjects) - 3 hours**

- Vehicle Introduction
- Vehicle Preventive Maintenance Checks and Schedule (PMCS)
- Operator Checks/walk around

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

- Operational Cautions
- Cab controls and adjustments
- Vehicle and equipment controls
- Visibility
- Payloading

**Vehicle Operation (cover the following types of terrain, and operational aspects) – 10 hours total (including driving time for all drivers)**

- Pavement - 2 hours
  - Common issues, warnings and cautions
  - Parking and backing up, with and without trailer
  - Acceleration
  - Braking - ABS, cautions
  - Slalom steering inputs, roll control
  - Traction Control/Stability Control pros/cons if equipped
- Secondary Roads/Gravel (1.2 mile gravel oval and washboard course) - 2 hours
  - Common issues, warnings and cautions
  - Acceleration
  - Traction Control/Stability Control pros/cons if equipped
  - Braking - low mu and washboard ABS and stability
  - Slalom steering inputs, roll and yaw control
- Trails (light trail loop, lateral trail, haul road) - 2 hours
  - Common issues, warnings and cautions
  - Drive train and power train configuration/s
  - Acceleration - traction
  - Braking - off-road ABS and stability
  - Traction Control/Stability Control pros/cons if equipped
  - Speed control - gearing, engine brake, other.
  - Ride quality pros and cons
  - Rolling terrain recommendations, vehicle setup
- Cross Country (rolling terrain with boulders and potholes, extended grade operation) - 2 hours
  - Common issues, warnings and cautions
  - Drive train and power train configuration/s
  - Acceleration - traction
  - Braking - off-road ABS and stability
  - Traction Control/Stability Control pros/cons if equipped
  - Speed control - gearing, engine brake, other..
  - Ride quality pros and cons
  - Rolling terrain recommendations, vehicle setup
- Soft Soil Operation (soft sand course) - 2 hours
  - Common issues, warnings and cautions
  - Drive train and power train configuration/s
  - Acceleration - traction
  - Braking - stability
  - Traction Control/Stability Control pros/cons if equipped
  - Speed control - gearing, engine brake, other..

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

- Ride quality pros and cons
- Rolling terrain recommendations, vehicle setup

## **Review - 2 hours**

### **3.4.2 HUMAN FACTORS EVALUATION - EVALUATOR TRAINING:**

DND/Canadian Forces trained drivers will operate the Test Articles for the HF Evaluation and are also referred to as “HF Evaluators”.

The HF Evaluators are members of the Canadian Forces and have the following qualifications:

- a. the Primary Leadership Qualification;
- b. qualified to drive the Canadian 10,000 kg Heavy Logistics Vehicle Wheeled (HLVW), with a minimum of 500 km driven in the last year and 2000 km overall; and
- c. qualified to drive a 16,000 kg Armoured Heavy Support Vehicle System (AHSVS), 16,000 kg Pallet Loading System vehicle or a 15,000 kg Heavy Engineer Support Vehicle (HESV).

Each Bidder will have the opportunity to provide up to 4 hours of vehicle familiarization to groups of 2 HF Evaluators as well as 3 hours of vehicle operation training per Evaluator in accordance with the outline below. There will be 2 rotations of approximately 10 HF Evaluators that require training.

Bidders are to ensure that their proposed HF Evaluator training comprises the Vehicle Familiarization and Vehicle Operation and Handling Characteristics as described below.

Bidders are also requested to provide a summary sheet of written instructions (or excerpt from their Operator's Manual) for the specific HFE tasks outlined at Part 4, Attachment 5, Section 2, Schedule 5-3; for clarity, this should include as a minimum a Driver's Daily Inspection Checklist (which will be augmented if necessary to encompass the full range of inspection items normally required by the CF to be conducted by its drivers (soldiers and DND personnel) prior to driving any vehicle belonging to the CF) and a guide for changing the spare tire. This summary sheet should be given to Canada no later than 4 weeks prior to the commencement of the HF Evaluation.

#### **Vehicle Familiarization (cover the following subjects) – 4 hours (to be done in groups of 2):**

- General Safety
- Driver Inspection
- Ingress/Egress
- Drivers Seat Design Control Functions
- Display, Instrument & Gauge Design
- Control Design & Operation
- Vehicle Handling Characteristics
- Spare Tire Replacement

#### **Vehicle Operation and Handling Characteristics (cover the following subjects including but not limited to) – 3 hours per Evaluator:**

- General Acceleration/Braking
- Braking from highway speed
- Turning Radius
- Lane Changing

- Gear Selection

### **3.5 Bidder Responsibilities**

The following information and requirements are provided in addition to what is provided in Part 3, Attachment 3, Section 2, Acquisition Proposal Preparation Instructions, Article 5 (in its entirety) and in Part 4, Attachment 5, Section 2, Acquisition Proposal Evaluation Plan, Article 2.6.

The Bidder is responsible to keep the Test Articles in working condition for the duration of the TCP. Failure to do so may result in the inability to complete the TCP in the allocated time period, resulting in the Bidder being declared non-compliant.

#### **3.5.1 DAILY DRIVER, PREVENTIVE AND CORRECTIVE MAINTENANCE**

Throughout the test program the Bidder will have access to their test articles to conduct supervised Daily Driver, Preventive and Corrective Maintenance on their Test Articles as follows:

- Daily Driver Maintenance. The Daily Driver Maintenance consists of the Daily Inspection and minor maintenance such as fluid checks, tire pressure checks etc which will be conducted immediately prior to the start of the day's testing. The Bidder will be required to submit a signed Daily Inspection Form (DIF) to the Liaison Officer to confirm the readiness of the Bidder's Test Articles to be eligible for that day's testing.
- Preventive Maintenance. Preventive Maintenance consists of maintenance conducted in accordance with the Bidder's preventive maintenance schedule at the end of a test day, with the exception of during the Mission Profile Test (see Test Profile 4.2). Preventive maintenance should not exceed two hours and is restricted to that maintenance required to ensure the Test Article is test ready. Performance of Preventive Maintenance does not replace Daily Driver Maintenance or negate the requirement for the Bidder to submit a signed DIF form confirming that their test article(s) are ready for the next day's testing.
- Corrective Maintenance. In the event of a Test Article breakdown during the conduct of a test, the Bidder's FSR will be immediately notified, and the Test Article will be recovered by NATC to the Bidder's designated office/maintenance area. The Bidder will be allowed to conduct the required corrective maintenance in order to return the Test Article to test readiness. The corrective maintenance must not result in any change to the configuration of the Test Article as it was verified during the Configuration Audit. Spare parts used during corrective maintenance must be equivalent to the original test article components.
- Bidders may request permission to perform corrective maintenance on Saturdays and Sundays, by exception.
- Bidders are permitted to bring a Mobile Repair Truck that does not exceed 40 feet in length to NATC. Bidders wishing to store their mobile repair truck on NATC premises anywhere else than their designated office area should contact NATC directly to make these arrangements.
- All maintenance activities will be documented by Canada. Bidders' FSRs are required to support and facilitate the collection of the maintenance data.
- Bidders will have access to NATC maintenance bays if required for corrective maintenance, however, dedicated maintenance bays will not be provided. The Bidder's designated office space/maintenance area will be utilized for daily preventive and corrective maintenance. NATC maintenance bays will be provided for major repairs on a case-by-case basis.



- h. Security of the NATC maintenance bays is provided by NATC; however, the Bidder is responsible to provide locks to secure their Bidder-supplied equipments (tool boxes etc).
- i. The use of personal and diagnostic computers, without recording devices, and printers is allowed within the confines of the maintenance bay.
- j. Test Article configuration changes will not be allowed throughout the duration of the TCP.
- k. Except for TCP testing purposes, Test Articles will in no case be permitted to leave the NATC site until completion of the TCP.
- l. English language Operator and Maintenance manuals are required to support the TCP. Maintenance manuals must be up to level 2 maintenance, as given at Part 8, Annex B, Article 1.1.3.2 for major component diagnostics and replacement. Commercial manuals are acceptable. Electronic manuals are acceptable so long as they are accessible to the test team.
- m. Contents of the ISO containers are the responsibility of the Bidder and all containers should be secured with Bidder supplied locks.

### 3.6 TCP Team

The TCP Team will include the following key personnel with assigned responsibilities as follows:

- a. **Contracting Authority (CA) Representative (PWGSC).** The CA is responsible to monitor the TCP and to ensure that the processes are conducted as set out in the RFP.
- b. **Technical Authority (TA) Representative (DND).** The TA is responsible for the oversight, quality control, and management of the entire TCP.
- c. **Test Witness (DND).** The DND Test Witness is mainly responsible to witness the TCP and record observations pertaining to the procedural conduct of the test.
- d. **Performance Test Coordinator (NATC).** The Performance Test Coordinator is responsible to assist Canada with the Configuration Audit and for the oversight, management and conduct of Performance Tests conducted by NATC personnel in accordance with the Test Profiles and the production of interim and final reports.
- e. **Human Factors Evaluation Coordinator (Defence Research and Development Canada (DRDC) Toronto).** The DRDC HF Evaluation Coordinator is responsible for the oversight, management and conduct of the TCP HF Evaluation, and production of the interim and final reports.
- f. **NATC Test Personnel (NATC).** The NATC Test Personnel will receive the Operator/User Training by the Bidders on their respective Test Articles and will operate the Test Articles through the conduct of the Performance Tests in accordance with the Test Profiles. Additionally, other NATC Test Personnel are responsible to escort the Bidders' personnel and to supervise all maintenance performed by the Bidders on their respective Test Articles.
- g. **Human Factors Evaluation Group (Qty 2) (Canadian Forces).** The two (2) distinct and separate HFE Groups will receive the Operator/User Training by the Bidders on their respective Test Articles and will operate and evaluate the Test Articles during the conduct of the TCP Human Factors Evaluation.
- h. **Liaison Officer (DND).** A DND Liaison Officer will be assigned to each Bidder and will act as the interface between the Bidders and the TCP Team members.

### 3.7 Lines of Communication

Throughout the duration of the TCP, Bidders will have direct access to the Liaison Officer. Verbal discussions will be restricted to the schedule, administration and logistics. Any and all TCP-related questions, concerns or issues must be submitted to the Liaison Officer in writing, who will transmit those to the appropriate TCP Team member. Written responses will be transmitted back to the Bidders via the Liaison Officer.

In the presence of the Liaison Officer, direct verbal interaction between the Bidder and the TCP Team members may be permitted with regards to observation on Test Articles and during maintenance supervision etc.

### 3.8 Canada's Responsibilities

Canada will provide F34 fuel that will be used for testing.

Canada will provide Outriggers and Payloads. The Payloads will be the same size and shape as a 20'x8'x8' ISO container and will be connected via the container's ISO locks, and the Outriggers will be connected to the Payloads.

The following table summarizes the vehicle configurations that are identified in the test matrix and the corresponding test profiles.

Variant	Payload Configuration	APS (Yes/No)	Vehicle Payload	Trailer (Yes/No)	Trailer Payload
LHS Variant	CW	Yes	No payload	No	N/A
	GVW		8,500kg	No	N/A
	GVW-R		Proposed Rated + 500kg	No	N/A
	GCW		8,500kg	Yes	8,500kg
	GCW-R		Proposed Rated + 500kg	Yes	Proposed Rated + 500kg
Cargo Variant	CW	No	No payload	No	N/A
	GVW		8,500kg	No	N/A
	GVW-R		Proposed Rated + 500kg	No	N/A
	GCW		8,500kg	Yes	8,500kg
	GCW-R		Proposed Rated + 500kg	Yes	Proposed Rated + 500kg

The additional 500kg added to the vehicle payload represents the weight of the standard kit and equipment for both the vehicle and trailer.

The vehicle and trailer payload used for testing will not exceed 10,500kg. Only the following nominal values will be used for payloads: 8,500kg; 9,000kg; 9,500kg; 10,000kg; and 10,500kg (the payload will be rounded down to the nearest increment).

As an example, if the Bidder proposes a vehicle payload of 9,000kg, the GVW-R configuration during testing will include a vehicle payload of 9,500kg.

The vehicle and trailer payloads will be within a tolerance of +/-100kg. The vehicle and trailer payload centre of gravity is as follows:

X (Longitudinal) = 9 ft, -0 in and +6 in (2743 mm, -0 mm and +152 mm)

Y (Width) = 4 ft +/- 3 in (1219 mm +/- 76 mm)

Z (Height) = 4 ft +/- 1 in (1219 mm +/- 25 mm)

Measurements are referenced from the lower, front (i.e. behind vehicle cab), left hand (i.e. road side) corner of an 8ft x 8ft x 20ft ISO container when secured on the vehicle. If an ISO container is not used for payload, the centre of gravity location described above will not change.

#### **4. TEST PROFILES**

The following pages detail the Test Profiles that will be used for the Configuration Audit and the Performance Test portion of the TCP. A list of acronyms is provided at section 4.13.

The following Tests will be conducted in accordance with the respective Test Profiles as outlined below:

1. Configuration Audit
2. 500km Mission Profile
3. Rollover Threshold
4. Ride Quality
5. Double Lane Change
6. Braking (Stopping Distance)
7. Fine Grained Soil Tractive Effort
8. Sand Dune Maximum Gradeability
9. Speed and Acceleration
10. Speed on Grade
11. Gradeability
12. Side Slope

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

#### **4.1 Test Profile: Configuration Audit**

Prior to the commencement of the Performance Testing and the Human Factors Evaluation portions of the TCP, a Configuration Audit will be conducted.

The Configuration Audit consists of a physical configuration verification of the Test Articles to confirm that they are representative of the bidder's proposed vehicles and trailer as identified in its bid.

The following table lists all of the configuration items (base chassis and key configuration characteristics) that will be verified and the corresponding verification method.

Configuration Item	Verification Method (Pass Criteria)
<u>Vehicle</u>	
a. Standard cab (Cargo variant only);	Same fit and form as the Bidder's proposed vehicle as identified in its bid.
b. Armour Protection System (APS) cab (LHS variant only);	APS weight will be verified in accordance with configuration items (n) and (o).
c. Cab Seating	Same fit, form, and function as the Bidder's proposed vehicle as identified in its bid (NOTE: APS function of seating will not be evaluated at this time)
d. Engine platform;	Same make and model as the Bidder's proposed vehicle as identified in its bid.
e. Transmission;	Same make and model as the Bidder's proposed vehicle as identified in its bid.
f. Transfer case;	Same make and model as the Bidder's proposed vehicle as identified in its bid.
g. Axles;	Same make and model as the Bidder's proposed vehicle as identified in its bid.
h. Wheel rims and tires (including 1 spare mounted on the spare wheel carrier assembly);	Same make and model as the Bidder's proposed vehicle as identified in its bid.
i. Suspension components;	Same fit, form and function as the Bidder's proposed vehicle as identified in its bid.
j. Spare wheel carrier assembly;	Same fit, form and function as the Bidder's proposed vehicle as identified in its bid.
k. Cargo Bed Access (rear) – Cargo Variant only;	Same fit, form and function as the Bidder's proposed vehicle as identified in its bid.
l. Curb weight with APS (LHS variant only);	Weight no more than 2% lower than the Bidder's proposed vehicle as identified in its bid.

Configuration Item	Verification Method (Pass Criteria)
m. Curb weight with standard cab (cargo variant only);	Weight no more than 2% lower than the Bidder's proposed vehicle as identified in its bid.
n. Axle loads measured at curb weight with APS cab (LHS Variant only); and	Each axle load is within 2% of the corresponding axle load on the Bidder's proposed vehicle as identified in its bid.
o. Axle loads measured at curb weight with standard cab (cargo Variant only).	Each axle load is within 2% of the corresponding axle load on the Bidder's proposed vehicle as identified in its bid.
<u>Trailer</u>	
a. Make and model;	Same make and model.
b. Wheel rims and tires; and	Same make and model.
c. Curb weight.	Weight no more than 2% lower than the Bidder's proposed trailer as identified in its bid.

For each configuration item identified in the table above, the Bidder supplied test articles will be compared with the proposed Vehicle and Trailer in the Bidder's RFP response (in accordance with the verification method in the table above). The test articles must be the same as the proposed Vehicle and Trailer (assessed IAW the verification method in the table above) for all configuration items.

Where the verification method refers to "same fit and form" or "same fit, form and function", these are defined as follows:

"Same fit" refers to the ability of the item on the Test Articles to physically interface or interconnect with, or become an integral part of another item, part, sub-assembly or assembly as proposed. For example if the bidder proposes in his bid (written) that the cab seats are "bolted-to-floor, four-point mounting configuration," but the cab seats on the Test Articles are suspended mine blast seat, then that is not the same "Fit" in that the Test Articles' cab seats do not physically connect or interface with the floor as written in the bid proposal.

"Same form" refers to the typical representative shape, size, dimensions, or other key visual parameters which uniquely characterize and define the appearance of the item as proposed. For example, if the bidder proposes in his bid (written) "a solid axle rear suspension with 8 leaf springs per side, and long shackles", but that the Test Article has 12 leaf springs per side, and short shackles, then that is not the

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

same “Form” in that the number of springs and size of the shackles are not the same as written in the bid proposal.

“Same function” refers to the action that the item is designed to perform as proposed. For example, if the bidder proposes in his bid (written) a spare tire carrier with the same size, mounting points and deployment/retractive mechanism (worm gear drive, and ratchet) as that found on the Test Article, then that is the same “Function” as is written in the bid proposal.

If any of the configuration items are not the same as the proposed Vehicle and Trailer (assessed in accordance with the verification method in the table above), the Bidder will be allowed, to the extent possible, a reasonable time, determined by Canada, to correct the Test Article. Failure to correct the Test Article within the time allowed will render the bid non-compliant.

In order to proceed to the Performance Testing and HF Evaluation, the Test Articles must meet the requirements of the configuration audit.

#### 4.2 Test Profile: Mission Profile

The objective of the Mission Profile test is to evaluate the ability of the vehicle to perform tasks in accordance with the MSVS SMP Mission Profile. The Mission Profile evaluation will consist of a total of approximately 500 kilometers (km) of operation for each of the Cargo and LHS variants. The LHS variant will tow the trailer for approximately 150 km. A typical route sheet for this task is enclosed.

The Mission Profile test is based on the MSVS SMP Mission Profile.

##### A. Vehicle Configurations

This test will be conducted in accordance with the procedure (Section D) and Mission Profile Route Sheet (Section I) with each of the following vehicle configurations:

1. LHS variant: 2 laps at GVW (approximately 334 km); and 1 lap at GCW (approximately 167 km)
2. Cargo variant: 3 laps at CW (approximately 500 km)

Tire pressures, transfer case setting, and transmission gear will be set in accordance with the enclosed route sheet unless otherwise specified by the Bidder. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

Instrumentation required for this evaluation is included in Table 1.

**Table 1**  
**Mission Profile Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS-Based Antenna
Vertical Acceleration at Driver's Seat Base	Triaxial Accelerometer
Vertical Acceleration at Centre of Trailer	Triaxial Accelerometer
Data Acquisition System	EDAQ

Equipment necessary for this evaluation includes:

Support vehicle with crane  
50-gallon barrel  
500-pound (lb) axial load cell  
Load cell reader



Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

Fluid sample jars  
Video camera  
Digital photographic camera

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

### **C. Facilities and Course Description**

The Mission Profile Route (henceforth identified as The Route) is identified in Section I, Mission Profile Route sheet. The Mission Profile Test consists of three (3) laps of The Route. The LHS variant will complete one (1) lap of The Route at GCW with the trailer attached and two (2) laps of The Route at GVW without the trailer. The Route for the trailer has been modified to exclude grades which exceed 20 percent. The cargo variant will complete three (3) laps of The Route at CW. Terrain descriptions can be found in Section J.

### **D. Test Procedures**

Discrete Events:

Discrete events are not performed for evaluation purposes; they are conducted for information purposes only. The information gained is used to enhance operator's understanding of the Vehicle's handling characteristics by characterizing vehicle performance and capability over events which may not be included in The Route, but would be common during the life of the vehicle. The following discrete events may be performed (with and without the trailer):

- Braking, 60-0 and 90-0 km/hr
- Wide open throttle acceleration
- Double lane change, up to 70 km/hr
- Off-road braking, gravel and split-mu surface conditions
- Constant radius
- Longitudinal grade and side slope operation
- Full turn lock-to-lock steering
- Reverse operation

Canada, in its discretion, may add or remove discrete events from the above list; however, Bidders will be notified prior to the addition of any events.

The Mission Profile Test (evaluated section) consists of the following steps:

1. Prior to test initiation, for information purposes only, fluid samples will be taken from each vehicle in order to compare pre-test and post-test samples to inspect for water or other contamination. The odometer reading for each vehicle will be recorded and documented in the test log.
2. The quantity of fuel consumed by the vehicle during the test will be measured.
3. The test articles will be operated for approximately eight (8) hours per day.
4. The Mission Profile Test consists of three (3) laps of The Route (i.e. Section I: Mission Profile Route Sheet). The LHS variant will complete one (1) lap of The Route at GCW with the trailer attached and two (2) laps of The Route at GVW without the trailer. The Route for the trailer has been modified to exclude grades which exceed 20 percent. The cargo variant will complete three (3) laps of The Route at CW.
5. If the vehicle is not able to traverse a segment of The Route (a segment is defined as one row on the Mission Profile Route Sheet) at the average speed indicated in the Mission Profile Route Sheet (Section I) due to adverse vehicle characteristics such as but not limited to: power limitation; inability to maintain path; impending danger to the vehicle occupant; or damage to the vehicle, the vehicle operator will note the limitation and stop the test. NATC will determine why the vehicle was not able to complete the segment. If NATC determines that the stoppage was due to a mechanical/electrical failure/condition that would be detrimental to the vehicle operator or vehicle the test will be terminated and the vehicle returned to the Bidder with a description of the problem. Otherwise, NATC will repeat the segment at least once with the original driver and if necessary, additional times with different drivers. If any of these subsequent attempts are successful, the test will continue; otherwise, the test will be terminated and the vehicle returned to the Bidder with a description of the problem. Recorded speed data will be used to substantiate terminated tests.
6. When necessary and at a minimum of once per day, the vehicles will be fueled. The vehicles will be fueled from a 50 gallon drum that will be suspended by an in-line load cell. The weight of the drum and fuel will be measured and recorded with the hand-held load cell reader. The vehicle will be fueled to the predetermined mark and the odometer reading will be recorded and documented. The weight of the drum and remaining fuel will be measured and recorded with the hand-held load cell reader, and the difference in weight will be used to calculate total fuel consumed.
7. At the end of each day of operation, an inspection will be performed on each vehicle to establish safe operating condition of the test articles. The results of the inspection will be documented in the test vehicle log, along with vehicle odometer readings.
8. During the conduct of the test, any hardware failures will be documented, along with an assessment of the impact of the failure to the operation of the vehicle. A cause analysis will be performed to determine whether the failure was due to operator error or misuse of the vehicle (in which case repairs may be permitted prior to resuming the test). Final determination regarding the cause of any failures will be made by NATC.
9. Upon completion of the Mission Profile Test, all test articles will undergo a thorough post-test inspection to verify operation and integrity of vehicle subsystems. Engine oil, transmission fluid, and differential fluid samples will be taken and compared to the pre-test samples to determine if any contamination occurred during the Mission Profile operation.
10. With the exception of tire replacement, maintenance will not be permitted during the Mission Profile test.
11. Representative video and photographic documentation will be taken of the test conduct.
12. Canada reserves the right to rearrange the Mission Profile route due to weather conditions or course availability.

#### E. Aborted runs and retests.

The following outlines the different potential situations that will cause the test to be aborted:

- a. **Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.
- b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.
- c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.** If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to two (2) additional attempts.

#### F. Pass/Fail Criteria

BA-564: This requirement will be assessed as a pass if both the LHS variant and cargo variant complete the mission profile course. The mission profile course will not be considered complete if the test was terminated prior to completion of the prescribed course.

#### G. Scoring Criteria

The average fuel consumption of the LHS variant during the Mission Profile Test will be used in the life cycle cost calculation.

Only the data captured from a completed test will be considered (i.e. if a test was terminated, fuel consumption data from that test will not be used).

#### H. Rated Payload Criteria

Rated payload requirements are not assessed in this test profile.

#### I. Mission Profile Route Sheet

	Surface Type	Trans	CTIS	T.C.	Max Speed mph (km/h)	Avg Speed mph (km/h)	Distance mi (km)
29.5 IN FORDING, ENTER, IDLE 2.5 MIN, OFF 2.5 MIN, IDLE 2.5 MIN, OFF 2.5 MIN, IDLE 2.5 MIN, OFF 2.5 MIN, EXIT (NOTE: fording conducted in final lap only)		D	HWY	H	5 (8)	N/A	0 (0)
Secondary Roads	LG	D	CC	H	25 (40)	20 (32)	0.9 (1.4)
Splash Mud	LG	D	MSS	H	5 (8)	4 (6)	0.3 (0.5)

	Surface Type	Trans	CTIS	T.C.	Max Speed mph (km/h)	Avg Speed mph (km/h)	Distance mi (km)
Full Lock Steering	PAVED	D	HWY	H	5 (8)	N/A	0 (0)
Reverse Lock to Lock Figure 8	PAVED	D	HWY	H	5 (8)	N/A	0 (0)
Secondary Road	LG	D	CC	H	25 (40)	22 (35)	0.9 (1.4)
Secondary Road	LG	D	CC	H	25 (40)	15 (24)	2.2 (3.5)
Low Trail	TR	D	CC	H	25 (40)	20 (32)	6.7 (10.8)
Low Trail - Negotiate grade in 1st gear, Low T-case, use grade by-pass if towing trailer							
Secondary Road	LG	D	CC	H	30 (48)	28 (45)	2.1(3.4)
Secondary Road	LG	D	CC	H	30 (48)	24 (39)	1.7 (2.7)
Secondary Road	LG	D	CC	H	25 (40)	22 (35)	1.7 (2.7)
Secondary Road	LG	D	CC	H	25 (40)	23 (37)	0.9 (1.4)
Paved Roads Severely degraded Pavement	P/DR	D	HWY	H	65 (105)	45 (72)	19.2 (30.9)
Secondary Road	LG	D	CC	H	25 (40)	23 (37)	0.9 (1.4)
Secondary Road	LG	D	CC	H	25 (40)	22 (35)	1.7 (2.7)
Secondary Road	LG	D	CC	H	30 (48)	24 (39)	1.7 (2.7)
Secondary Road	LG	D	CC	H	30 (48)	27 (43)	2.4 (3.9)
Severe Trails	TR	2	CC	H/L	15 (24)	10 (16)	2.7 (4.3)
Medium Trails	TR	2	CC	H/L	15 (24)	10 (16)	6.8 (10.9)
Severe Trails	TR	2	CC	H/L	15 (24)	10 (16)	2.7 (4.3)
Degraded Secondary Road	LG	D	MSS	H/L	25 (40)	20 (32)	1.4 (2.3)
Degraded Secondary Road	LG	D	MSS	H/L	25 (40)	20 (32)	16.5 (26.6)
Low Trail	TR	D	CC	H	25 (40)	20 (32)	6.7 (10.8)
Low Trail - Negotiate grade in 1st gear, Low T-case, use grade by-pass if towing trailer							
Secondary Road	LG	D	CC	H	25 (40)	15 (24)	2.2 (3.5)
Smooth Secondary Road	LG	D	CC	H	25 (40)	23 (37)	1.7 (2.7)
Secondary Road with washboard	LG	D	CC	H	35 (56)	20 (32)	4.8 (7.7)
Secondary Road	LG	D	CC	H	15 (24)	10 (16)	0.5 (0.8)
Medium Cross Country	XC	D	CC	L	25 (40)	15 (24)	0.8 (1.3)
Severe Cross country	XC	2	CC	L/L	15 (24)	10 (16)	1.5 (2.4)
Unlock differentials for tight corners							
Medium Cross Country	XC	4	CC	L	25 (40)	15 (24)	0.8 (1.3)
Secondary Road	LG	D	CC	H	25 (40)	10 (16)	0.1 (0.2)
Secondary Road	LG	D	CC	L	15 (24)	9 (14)	0.2 (0.3)
Degraded Secondary Road	LG	D	MSS	L	20 (32)	15 (24)	3.2 (5.1)
Secondary Road	LG	D	CC	L	10 (16)	9 (14)	0.2 (0.3)
Secondary Road	LG	D	HWY	H	10 (16)	5 (8)	0.2 (0.3)
Belgian Block	BB	D	HWY	H	20 (32)	18 (29)	1.2 (1.9)

	Surface Type	Trans	CTIS	T.C.	Max Speed mph (km/h)	Avg Speed mph (km/h)	Distance mi (km)
Medium Cross Country	XC	D	CC	H	15 (24)	10 (16)	2.4 (3.9)
Secondary Road	LG	D	CC	H	25 (40)	15 (24)	0.6 (1)
Potholes	P/DR	D	HWY	H	15 /10 (24 / 16)	12 (19)	0.8 (1.3)
Secondary Road	LG	D	HWY	H	4 (6)	2 (3)	0.2 (0.3)
Frame Twist	P/DR	1	HWY	L/L	4 (6)	N/A	0 (0)
Secondary Road	LG	D	HWY	L	25 (40)	17 (28)	0.4 (0.6)

## J. Terrain Descriptions

The terrain utilized for the Mission Profile evaluation is distributed between four (4) classifications: primary surfaces, secondary surfaces, trails, and cross country. Within each of these categories are subcategories which are classified by roughness as quantified by Wave Number Spectrum (WNS) profile. The WNS profiles for each subcategory of applicable terrain are shown in Table C.1.

**Table C.1**  
**Terrain Severity Classification**

Terrain			Wave Number Spectrum	RMS Roughness (inches)
Improved Surfaces	Primary Surfaces	High Quality Paved Road	$G_{xx}(n) = 1.4 \times 10^{-8}(n)^{-2.5}$	0.1
		Secondary Pavement	$G_{xx}(n) = 1.9 \times 10^{-7}(n)^{-2.5}$	0.2
	Secondary Surfaces	Rough Pavement Degraded	$G_{xx}(n) = 8.0 \times 10^{-7}(n)^{-2.5}$	0.3 – 0.5
		Loose Surface	$G_{xx}(n) = 3.0 \times 10^{-5}(n)^{-2.0}$	0.6
		Belgian Block	$G_{xx}(n) = 4.0 \times 10^{-6}(n)^{-1.4}$	0.3 – 0.6
		Washboard and Potholes	$G_{xx}(n) = 4.0 \times 10^{-6}(n)^{-2.4}$	0.7 – 1.2
Un-Improved Surfaces	Trails		$G_{xx}(n) = 4.6 \times 10^{-4}(n)^{-1.9}$	1.0 – 3.4
	Cross Country		$G_{xx}(n) = 9.2 \times 10^{-4}(n)^{-2.1}$	1.5 – 4.8

### Primary Surfaces

Primary surfaces include high quality paved road and secondary pavement with an RMS Roughness range of 0.1 – 0.2 inches. These are man-made and maintained roads designed for heavy traffic. Generally, primary surfaces feature a minimum width of nine (9) feet, a maximum longitudinal grade of six (6) percent, and a maximum crown of two (2) degrees. Secondary pavement may include slight degradation of the roadway, such as potholes and freeze/thaw cracking. An example of primary surface terrain is shown in Figure C.1



**Figure C.1**  
**Primary Surface Example**

### **Secondary Surfaces**

Secondary surfaces include highly degraded pavement, loose surface terrain such as gravel or crushed rock roads – with or without washboard and potholes – and Belgian block. These are typically man-made but not frequently maintained and are subjected intended for medium-weight, low-density traffic and feature an RMS roughness between 0.3 and 1.2 inches. Secondary surfaces generally have a minimum width of 9 feet and a longitudinal slope of up to 15 percent. Figures C.2 to C.4 show examples of secondary surface terrain.



**Figure C.2**  
**Secondary Surface: Severely Degraded Pavement**





**Figure C.3**  
**Secondary Surface: Gravel with Washboard**



**Figure C.4**  
**Secondary Surface: Belgian Block**



## Trails

Trails are one (1) lane, unimproved, seldom maintained loose surface roads intended for low density traffic. Trails have no defined road width and can include large obstacles (rubble, boulders, logs, and stumps). Trails have a RMS roughness range of 1.0 to 3.4 inches and may include ditches, washouts, and longitudinal grades up to 40 percent. Figures C.5 and C.6 show examples of trail terrain.



**Figure C.5**  
**Trails Surface Example**



**Figure C.6**  
**Trails Surface Example**

### **Cross Country**

Cross country surfaces are typically naturally occurred and unimproved terrain which is not subjected to frequent or repeated traffic. There are no defined road widths and the terrain may feature large exposed obstacles such as rocks and boulders. The range of cross country RMS roughness is defined as 1.5 to 4.8 inches. Figures C.7 shows an example of cross country surfaces.



**Figure C.7**  
**Cross Country Surface Example**

#### 4.3 Test Profile: Rollover Threshold

The objective of the rollover threshold evaluation is to estimate each vehicle's center of gravity and roll threshold. The center of gravity and roll threshold will be used to determine if outriggers will be required for stability during the steady state cornering and double lane change evaluations.

The rollover threshold evaluation was developed using TOP 2-2-002, Dynamic Stability Handling and Steering, dated 19 May 2009 and SAE J2180, A Tilt Table Procedure for Measuring the Static Rollover Threshold for Heavy Trucks, dated December 1998 as references only. This test profile outlines the steps and parameters that will be followed for the Rollover Threshold testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with the following vehicle configuration:

1. LHS variant at GVW.

Tire pressures and adjustable configurations such as transfer case setting, ride height, differential locks and any other settings set at highway settings. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

Instrumentation required for this assessment is shown in Table 2.

**Table 2**  
**Static Stability Instrumentation**

Parameter	Sensor
Inclinometer	Tilt Table
Inclinometer	Front Bumper
Inclinometer	Rear Bumper
Smart Level (Digital Level)	Tilt Table

Inclinometer data from each tilt event will be acquired at a minimum sample rate of 10 Hz.

The equipment necessary for this test includes:

- Calibrated tire pressure gauge
- Digital photographic camera
- Video camera

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

##### C. Facilities and Course Description

NATC's tilt test facility will be used for this test effort. The tilt table is equipped with a high friction surface to inhibit sliding of the test vehicle on the tilt table during test conduct. The tilt table rotates at a rate of approximately 0.09 degrees per second in order to determine the static roll properties of the vehicle and prevent abrupt roll input into the test vehicle.

#### D. Test Procedures

The Bidders shall be responsible for ensuring that their vehicle is in an appropriate condition to be tested and that all critical areas of the test vehicle, including the suspension, frame, chassis, and mounting points have been inspected for anomalies that could lead to non-typical results during the tilting process. The test vehicle will be weighed to determine wheel and axle loading. The following steps will be used to conduct the rollover threshold test.

1. The test vehicle will be placed on the tilt table.
2. The test vehicle will be secured to the tilt table in accordance with SAE J2180.
3. During the tilt table evaluation, the vehicle's engine will remain off, the transmission in neutral, and the parking brake engaged.
4. The tilts in each orientation, driver's side down and passenger's side down, will be conducted three (3) times to confirm repeatability.
5. Between individual tilt events, the test vehicle will be removed from the tilt table and driven. Left- and right-hand turns will be completed to equalize the suspension and prevent any variations in the test results due to binding of suspension components.

The point of static instability of the test vehicle on the tilt table will be determined when the test vehicle's tires lift off the surface of the table. Using the average tilt table angles at the point of wheel lift, the rollover threshold for each tilt event will be calculated.

#### E. Aborted runs and retests.

The following outlines the different potential situations that will cause the test to be aborted:

**a. Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.

**b. Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.

**c. Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.** If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to one (1) additional attempt.

#### F. Pass/Fail Criteria

Mandatory requirements are not assessed in this test profile.

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

#### **G. Scoring Criteria**

BA-531: The value used for scoring will be the lesser of:

- a. The rollover threshold attained in the driver side down orientation; and
- b. The rollover threshold attained in the passenger side down orientation.

#### **H. Rated Payload Criteria**

Rated payload requirements are not assessed in this test profile.

#### 4.4 Test Profile: Ride Quality

The objective of the ride quality evaluation is to determine the amount of shock and vibration transmitted from the road to the vehicle operator and crew over standard root mean squared (RMS) random roughness courses and over discrete half round events. The test vehicles will be evaluated against the six Watt (6W) absorbed power exposure limit while traversing RMS courses and against the 2.5g criteria while traversing half-round obstacles.

The ride quality evaluation was developed using TOP 1-1-014, Ride Dynamics, dated 30 October 2007 as a reference only. This test profile outlines the steps and parameters that will be followed for the Ride Quality testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with the following vehicle configuration:

1. LHS variant at GVW

Tire pressures and adjustable configurations such as transfer case setting, ride height, differential locks, and any other settings will be set at level cross country settings. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

Instrumentation required for this evaluation is included in Table 3.

**Table 3**  
**Ride Quality Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS-Based Antenna
Acceleration at Driver's Seat Base	Triaxial Accelerometer
Data Acquisition System	EDAQ

All data will be collected with a digital data acquisition system at a minimum of 500 Hz. Prior to analog-to-digital conversion, the system will internally filter all data at approximately 167 Hz to prevent aliasing.

The equipment necessary for this test includes:

- Calibrated tire pressure gauge
- Digital photographic camera
- Video camera

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

##### C. Facilities and Course Description

The following table provides a list of the courses that will be used for this evaluation:

Course Type	NATC Course Name	Initial Test Speeds (km\h)
RMS Ride Quality	1.0-Inch RMS	45
	1.2-Inch RMS	35
	2.4-Inch RMS	10
	3.6-Inch RMS	10
Half-Round Obstacle	6-Inch Half-round	35
	8-Inch Half-round	15
	10-Inch Half-round	15
	12-Inch Half-round	10

All courses and speeds above will be used up to the limit of vehicle capability. If adverse vehicle characteristics are experienced – such as tire lift, diminished handling, or risk of damage to the vehicle or occupant – the vehicle speeds will be reduced.

RMS courses will be free from standing water during test conduct. The courses will be profiled using an NATC profilometer at the start and end of the ride quality testing. All data processing will use measured course roughness, as opposed to the roughness indicated in the course name.

#### **D. Test Procedures**

The test vehicle will be driven at a speed of 40 to 50 km/h prior to the test to ensure that the OEM specified engine operating temperature has been reached and that the tires have been warmed up.

The following steps will be used to conduct the ride quality test:

1. The test vehicle will be driven over the course at the initial speed a minimum of three (3) times to verify data repeatability. Data will be collected throughout the duration of each course; data logging will be initiated as the front of the vehicle passes the course's start line, and will be terminated as the rear of the vehicle passes the end line.
2. Subsequent speeds will increase in approximately 10 km/h increments until the end limit approaches, at which point the speed will be increased in 5 km/h increments until the 6W limit, 2.5 g limit, or vehicle dynamic limit is reached. A minimum of three (3) runs will be performed at each tested speed to verify data repeatability.

The test will be terminated if vehicle dynamics at tested speeds create a high risk of personnel injury or vehicle damage. Determination of risk will be made by NATC test personnel.

All dynamic ride quality testing will be videotaped.

#### **NOTES:**



All data will undergo a quality control check to verify signal quality and run validity. Any RMS course run in which the coefficient of variation in the speed is greater than 0.1 will be removed from further analysis.

Calculated absorbed power in the vertical direction will be used as the primary evaluation criteria for all RMS ride quality testing. Average absorbed power in the vertical direction will be calculated for all accelerometer positions for each run. The absorbed power over each course will be plotted as a function of average vehicle speed over each run. Calculated absorbed power differences between accelerometer locations and orientations will be compared to determine the channels in which the vibrational energy is dominant.

A power law regression analysis will be performed on the absorbed power for each course. The speed at which exactly six (6) Watts is reached will be determined from the regression line. If data are not collected at that speed ( $\pm 5$  km/h), additional runs will be performed at the 6W speed, pending vehicle capability.

The 6W speed will be plotted as a function of course roughness using the measured course roughness profiles. A power law regression analysis will be performed to compare the capability of each vehicle.

Accelerometer data from half round events will be low-pass filtered at 30 Hz using an 8-pole Butterworth filter, in accordance with TOP 1-1-014. The filtered half round data will be used to determine the maximum absolute value of the vertical acceleration at the driver's seat base that was experienced in each run.

The average vehicle speed within one (1) second prior to half round impact will be determined and will be plotted against the maximum absolute value of the vertical acceleration at the driver's seat base. A power law regression analysis will be performed to determine the speed at which exactly 2.5 g is experienced. If data are not collected at that speed ( $\pm 5$  km/h), additional runs will be performed at the 2.5 g speed, pending vehicle capability.

#### **E. Aborted runs and retests.**

The following outlines the different potential situations that will cause the test to be aborted:

a. **Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.

b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.

c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.** If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator

manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to one (1) additional attempt.

#### **F. Pass/Fail Criteria**

Mandatory requirements are not assessed in this test profile.

#### **G. Scoring Criteria**

BA-645: The values used to evaluate this requirement will be the maximum speed the vehicle can negotiate each of the following RMS courses without exceeding 6 watts average vertical absorbed power, measured at the driver's location (not including energy absorbed by the seat):

- a. 1.0 inch RMS;
- b. 1.2 inch RMS;
- c. 2.4 inch RMS; and
- d. 3.6 inch RMS.

BA-670: The values used to evaluate this requirement will be the maximum speed the vehicle can negotiate each of the following half round obstacles without exceeding 2.5g vertical acceleration, as measured at the driver's location (not including energy absorbed by the seat):

- a. 6 inch half round;
- b. 8 inch half round;
- c. 10 inch half round; and
- d. 12 inch half round.

#### **H. Rated Payload Criteria**

Rated payload requirements are not assessed in this test profile.

#### 4.5 TEST PROFILE: DOUBLE LANE CHANGE

The objective of the double lane change/obstacle avoidance maneuver is to establish the test vehicles' performance in a simulated obstacle avoidance maneuver. The dynamic response of the suspension system to sudden lateral loading and weight transfer will be observed along with handling recovery capabilities (i.e. the ability to regain safe control of the vehicle and resume with normal driving operation).

The double lane change evaluation was developed using North Atlantic Treaty Organization (NATO) Allied Vehicle Testing Publication (AVTP) 03-160W, Dynamic Stability, dated September 1991 as a reference only. This test profile outlines the steps and parameters that will be followed for the Double Lane Change testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with each of the following vehicle configurations:

1. LHS variant at GVW

Tire pressures and adjustable configurations such as transfer case setting, ride height, differential locks and any other settings will be set at highway settings. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

Instrumentation required for this evaluation is included in Table 4.

**Table 4**  
**Double Lane Change Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS-Based Antenna
Sprung Mass Roll Rate	Inertial Measurement Unit (IMU)
Sprung Mass Yaw Rate	IMU
Sprung Mass Lateral Acceleration	IMU
Steering Wheel Angle	Displacement Transducer
Data Acquisition System	VBOX

Data will be acquired at a minimum sample rate of 100 Hz.

The equipment necessary for this test includes:

- Calibrated tire pressure gauge
- Eighteen (18) traffic cones
- 300-foot tape measure
- Video camera
- Digital photographic camera

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

##### C. Facilities and Course Description

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

The double lane change test will be conducted at NATC. The course section to be used is hard pavement and has less than one (1) percent slope in all directions. The course will be dry and free of debris during the conduct of the test.

Traffic cones will be placed to define the double lane change course as determined in NATO AVTP 03-160W using width and length of the test vehicle at 0.5 meters above ground level. Figure 1 shows the course layout dimensions.

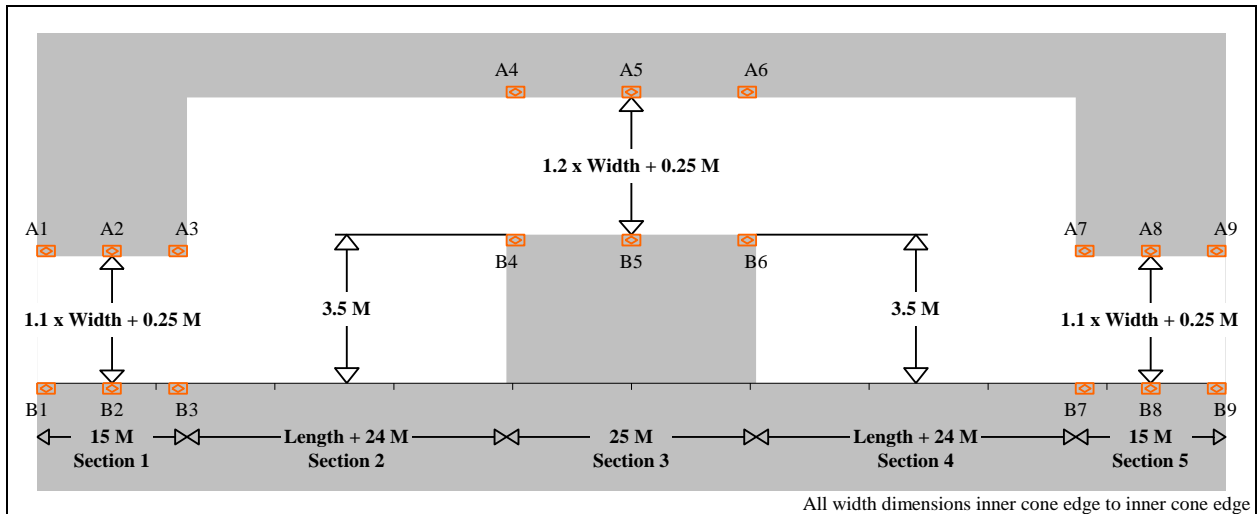


Figure 1: Cone Layout for Double Lane Change Test

The test will be performed with ambient wind speeds less than three (3) meters per second.

#### D. Test Procedures

Outriggers will be installed on the test vehicles for the complete conduct of the double lane change test.

The test vehicle will be driven at a speed of 40 to 50 km/h prior to the test to ensure that the OEM specified engine operating temperature has been reached and that the tires have been warmed up.

1. The vehicle will be accelerated to an initial speed of 35 kilometers per hour (km/h) and maintain that speed,  $\pm 2$  km/h, throughout the course. Data acquisition will be started once the vehicle achieves the desired test speed, before entering the course. Each run will be attempted in sets of 3 trials at each speed.
2. Observers will monitor the run to watch for vehicle contact with cones and to record the location of each contacted cone. If any cones are found to be knocked outside of their marked location, the vehicle will rerun two additional times at the same speed. Additional reruns may be conducted if constant speed or incorrect operator input is determined to be the contributing factor to cone displacement. Cones that are partially contacted but remain upright and within the marked location will not require a rerun.
3. Upon each successful run completion, the speed will be increased in 10 km/h increments for subsequent runs. When a 10 km/h increment cannot be achieved, the increments will be reduced to 5 km/h from previous successful set. Speeds will be increased until the vehicle end limit is reached, defined as:
  - The driver is unable to negotiate the course without knocking over a course-marking cone or
  - The vehicle can no longer maintain a constant speed through the evaluation course; or

- The limit of the vehicle's stability is reached.
- 4. If the vehicle end limit speed is reached below 90 km/h, a minimum of three (3) runs in one set will be performed at the end limit to parameterize the vehicle dynamic behavior.
- 5. The test will be conducted in both directions on the test course to negate any effects of wind or grade and to investigate any potential directional inconsistencies in vehicle handling characteristics.

All dynamic double lane change conduct will be videotaped.

#### **E. Aborted runs and retests.**

The following outlines the different potential situations that will cause the test to be aborted:

a. **Deviation from the test procedure.** The test will be aborted the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.

b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.

c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.** If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to one (1) additional attempts.

#### **F. Pass/Fail Criteria**

Mandatory requirements are not assessed in this test profile.

#### **G. Scoring Criteria**

BA-646: The value used to evaluate this requirement will be the highest successful event speed at which the driver is able to negotiate the course in both directions.

#### **H. Rated Payload Criteria**

Rated payload requirements are not assessed in this test profile.

#### 4.6 Test Profile: Braking (Stopping Distance)

The objective of the braking evaluation is to determine the vehicle minimum stopping distance and its stability and controllability under hard brake application.

The braking evaluation was developed using TOP 2-2-608, Braking, Wheeled Vehicles, dated 20 May 2008 and U.S. Department of Transportation (DOT) Federal Motor Vehicle Safety Standards (FMVSS) and Canadian Motor Vehicle Safety Standards (CMVSS) as references only. This test profile outlines the steps and parameters that will be followed for the Brake testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with the following vehicle configurations:

1. LHS at GVW.

Tire pressures and adjustable configurations such as transfer case setting, ride height, differential locks and any other settings will be set at highway settings. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

Instrumentation required for this assessment is shown in Table 5.

**Table 5**  
**Braking Evaluation Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS-Based Antenna
Sprung Mass Pitch Rate	IMU
Sprung Mass Yaw Rate	IMU
Sprung Mass Longitudinal Acceleration	IMU
Brake Pedal Displacement	String Potentiometer
Data Acquisition System	VBOX

Data will be acquired at a minimum sample rate of 100 Hz.

The equipment necessary for this test includes:

- Calibrated tire pressure gauge
- Infrared Temperature gun
- Digital photographic camera
- Video camera

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

##### C. Facilities and Course Description

The NATC facility will be utilized for all service brake stops. The course section that will be used has a longitudinal grade of less than one percent (1%) and a lateral grade of less than two percent (2%). The paved course will be dry and free of debris during the conduct of the test.

The test will be performed with ambient wind speeds of less than 3 meters per second.

#### **D. Test Procedures**

As specified in part 3, attachment 3, all vehicles delivered for the TCP shall arrive ready for testing. This includes that all vehicles variants, including the trailer, shall have their brakes already burnished prior to arrival. Also, in the Test Matrix of Part 4, Attachment 5, section 2, it is stated that brake burnishing will not be accomplished as a separate task so additional brake burnishing will not be performed.

The test vehicle will be driven at a speed of 40 to 50 km/h prior to the test to ensure that the OEM specified engine operating temperature has been reached and that the tires have been warmed up.

The following steps will be used to conduct the braking test:

1. The vehicle will be accelerated to a speed of at least 90 (+5, -1) km/h.
2. The speed will be held constant for a minimum of five (5) seconds or until the primary air tank reaches its cutoff pressure as indicated by a dash mounted air gauge, whichever comes last.
3. While data is being recorded, the vehicle will be allowed to decelerate to the desired test speed of 88.6 km/h (+0,-3 km/h), the vehicle transmission will be placed in neutral and the service brakes will be applied to maximum pedal travel. The test vehicle operator will maintain safe control of the vehicle until it comes to a complete stop and is held stationary for a minimum of five (5) seconds.
4. An observer will note any tire lock-up or inability of the vehicle to maintain a 12-foot lane as marked by traffic cones.
5. At the completion of each stop, a pyrometer will be used to check the temperature of each brake rotor or drum. If necessary, cool down laps will be performed prior to the next stop to keep the brake drums/rotors under 250 degrees Fahrenheit (°F).
6. The test will be conducted in the opposite direction on the test course to negate any effects of wind. Three (3) runs in each direction will be performed to demonstrate repeatability.

All dynamic braking conduct will be videotaped.

Corrected stopping distances, in accordance with Society of Automotive Engineers J299, Stopping Distance Test Procedure, dated September 1993 will be calculated utilizing Equation 1.

$$S_c = S_m \frac{V_d^2}{V_a^2} \quad (\text{Eq. 1})$$

where:

$V_d$  = Desired initial vehicle stopping speed

$V_a$  = Actual initial vehicle stopping speed

$S_m$  = Measured stopping distance

$S_c$  = Calculated stopping distance from  $V_d$

#### **E. Aborted runs and retests.**



The following outlines the different potential situations that will cause the test to be aborted:

a. **Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.

b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.

c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.**  
If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to one (1) additional attempt.

#### **F. Pass/Fail Criteria**

Mandatory requirements are not assessed in this test profile.

#### **G. Scoring Criteria**

BA-516: The value used for evaluation will be the mean average of the best 5 of 6 corrected stopping distances the vehicle attains without leaving a 12ft wide lane.

#### **H. Rated Payload Criteria**

Rated payload requirements are not assessed in this test profile.

#### 4.7 Test Profile: Fine Grained Soil Tractive Effort

The objective of the fine grained soil tractive effort evaluation is to define the tractive effort of the test vehicles on soft soil terrain.

This test profile outlines the steps and parameters that will be followed for the Fine Grained Soil Tractive Effort testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with the following vehicle configuration:

1. LHS variant at GVW

Tire pressures and adjustable configuration such as transfer case setting, ride height, differential locks will be set as required. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

The instrumentation required for this evaluation is shown in Table 6.

**Table 6**  
**Fine Grained Soils Tractive Effort Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS-Based Antenna
Draw Bar Load	Load Cell
Wheel Speed of Four (4) Corner Wheels	Wheel Encoder

All data will be collected with a digital data acquisition system at a minimum of 256 Hz. Prior to analog-to-digital conversion, the system will internally filter all data at approximately 100 Hz to prevent aliasing.

Equipment necessary for this test includes:

- Mobile Dynamometer
- Cone Penetrometer
- Soil Trafficability Measurement Kit
- Tape Measure and One (1) Meter Ruler
- Video camera
- Digital photographic camera

A tow vehicle will be used as the mobile dynamometer for the dynamic tractive effort evaluation.

The following meteorological data will be measured and recorded during each day of testing: temperature, relative humidity, precipitation, wind speed, and wind direction.

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

### C. Facilities and Course Description

The clay/mud traction soil bin will be utilized for the fine grained dynamic tractive effort test. The soil bin is a fine grained soil test area with controllable moisture content. The course dimensions are approximately 250 meters long and 100 meters wide. Course material is clay/loam with a hardpan clay base. A range of mud depth and cone index conditions are available to suit specific test requirements.

### D. Test Procedures

A dynamic tractive effort test in fine grained soft soil will be conducted. The dynamic tractive effort evaluation provides the necessary data to determine the maximum draw bar load the vehicle can sustain without losing speed at various tire slip conditions.

Prior to the start of testing an appropriate test area will be identified based on the soil strength (RCI), moisture content, and grade. For dynamic tractive effort testing a flat, level area will be used for all testing. For each test lane five (5) soil measurements will be taken in the direction of travel and two across the width of the course in order to create a soil compaction matrix of the test area. The soil will be prepared to provide a consistent test surface for each vehicle. Soil preparation (watering/drying) will continue until the desired soil conditions are achieved. The soil will be prepared with the following target soil parameters:

- 0-6 inch Layer,  $20 < RCI < 40$
- 3-9 inch Layer,  $40 < RCI < 75$
- 6-12 inch Layer,  $RCI > 75$

Course soil conditions will be spot-checked daily. A sufficient number of samples will be taken to represent the full test area.

The dynamic tractive effort/soft soil mobility test will be conducted in the following manner.

1. The test vehicle will achieve the desired test speed, 5 km/h, prior to entering the test course.
2. Once the test vehicle and towed load have entered the test area the towed load will increase the draw bar load while the test vehicle increases throttle to achieve various load and the tire slip conditions while maintaining constant speed. A minimum of 3 seconds of constant load, slip and speed are required for each test condition.
3. Test vehicle speed must be maintained to 5 km/h  $\pm 1.5$  km/h
4. Tire speed readouts will be monitored to provide positive wheel slip. This provides the maximum clearing action on the tires to ensure maximum tractive effort is achieved.
5. Upon a successful pull the previous steps will be repeated once. More runs may be conducted if necessary to completely define the tractive effort versus slip curve.
6. Steps 1-5 will be repeated at different tire slip conditions in order to develop a tractive effort versus tire slip graph for 0 to 100 percent slip at a constant speed of 5 km/h.

Drawbar pull ratio will be calculated as follows:

$$\text{Drawbar Pull Ratio} = \frac{\text{Drawbar Pull}}{\text{Gross Vehicle Weight (actual test vehicle weight)}}$$

#### **E. Aborted runs and retests.**

The following outlines the different potential situations that will cause the test to be aborted:

a. **Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.

b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.

c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.**  
If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to one (1) additional attempt.

#### **F. Pass/Fail Criteria**

Mandatory requirements are not assessed in this test profile.

#### **G. Scoring Criteria**

BA-644: The value used for evaluation will be the peak drawbar pull ratio attained by the vehicle.

#### **H. Rated Payload Criteria**

Rated payload requirements are not assessed in this test profile.

#### 4.8 TEST PROFILE: SAND DUNE MAXIMUM GRADEABILITY

The objective of the Sand Dune Maximum Gradeability test is to determine the Vehicle's performance in a natural sand dune environment with regards to maximum grade climbing ability.

This test profile outlines the steps and parameters that will be followed for the Sand Dune Maximum Gradeability testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with the following vehicle configuration:

1. LHS variant at GVW

Tire pressures and adjustable configurations such as transfer case setting, ride height, differential locks, and any other settings will be set as required. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

The instrumentation required for this evaluation is shown in Table 10.

**Table 7**  
**Gradeability Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS-Based Antenna

Data will be acquired at a minimum sample rate of 20 Hz.

The equipment necessary for this test includes:

- Calibrated tire pressure gauge
- Digital photographic camera
- Video camera
- Cone penetrometer
- Soil Trafficability Measurement Kit

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

##### C. Facilities and Course Description

Sand Mountain Recreation Area located in Churchill County, Nevada will be utilized for the soft soil grade climbing test. This test area is a natural blown sand dune 2 miles in length and up to 200 meters in vertical height. Natural sand grades over the dune range from 5% up to 60%, which is the natural angle of repose of sand.

##### D. Test Procedures

The clinical slope evaluations will be performed on a grade with a slope which increases from zero (0%) to more than 40% slope through a minimum of 50 meters of linear distance. The test

area will be identified based on uniform soil conditions across the test area to include CI and moisture content.

The following steps will be used to conduct the sand dune maximum gradeability test:

- 1) The evaluation will begin with the vehicle stopped at the bottom of the slope with the transmission locked in first gear.
- 2) Throttle will be gradually applied to ascend the grade in a slow and controlled manner. Throttle will be modulated to control wheel slip and prevent excessive sinkage. Test observers will communicate vehicle movement, tire slip and vehicle sinkage to the operator throughout the test.
- 3) An NATC engineer will determine the point of immobilization and will communicate immobilization to the vehicle operator.
- 4) At the point when the vehicle becomes immobile (defined as the point in time when the vehicle is no longer able to maintain forward movement up the grade), the parking brake will be set and the transmission will be placed in neutral. Inclinator readings will be taken of the surface soil next to the vehicle.
- 5) Repeat three times. Additional runs may be conducted based on soil, vehicle or measurement inconsistencies. Soil moisture variation for each layer greater than 1% by weight or average cone reading variation greater than 10 for each layer up to 30 centimeters will be used to void the results of a run.

Cone penetrometer readings will be taken at three points along each side of the vehicle.

At the end of each test event, a sampling of the test course material will be collected. These samples will be collected over a geographical representation of the test course area, and taken at the surface, and at depths of 0.15 meters and 0.3 meters. Test samples will be analyzed for confirmation that the test course moisture content is consistent throughout the grades.

#### **E. Aborted runs and retests.**

The following outlines the different potential situations that will cause the test to be aborted:

- a. **Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.
- b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.
- c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.** If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator

manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to one (1) additional attempt.

**F. Pass/Fail Criteria**

Mandatory requirements are not assessed in this test profile.

**G. Scoring Criteria**

BA-668: The value used for scoring will be the best (of 3 attempts) maximum grade attained at the point of immobilization during the Soft Soil Grade Climbing Test.

**H. Rated Payload Criteria**

Rated payload requirements are not assessed in this test profile.

#### 4.9 TEST PROFILE: SPEED AND ACCELERATION

The objective of the speed and acceleration evaluation is to determine the maximum sustained speed of the test vehicles, as well as the minimum time required to accelerate to 80 km/h from a stop.

The speed and acceleration evaluation was developed using TOP 2-2-602, Acceleration; Maximum and Minimum Speeds, dated 8 August 1980 as a reference only. This test profile outlines the steps and parameters that will be followed for the Speed and Acceleration testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with each of the following vehicle configurations:

1. LHS variant at GVW.
2. LHS variant at GCW.

Tire pressures and adjustable configurations such as transfer case setting, ride height, differential locks will be set at highway settings. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

The instrumentation required for this evaluation is shown in Table 8.

**Table 8**  
**Speed and Acceleration Evaluation Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS Speed Sensor
Throttle Position	Displacement Transducer
Data Acquisition System	VBOX

Data will be acquired at a minimum sample rate of 100 Hz.

The equipment necessary for this test includes:

Calibrated tire pressure gauge  
Digital photographic camera  
Video camera

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

##### C. Facilities and Course Description

The NATC facility will be utilized for all acceleration and maximum speed runs. The course section that will be used has a longitudinal grade of less than one percent (1%) and a lateral grade of less than two percent (2%). The course will be dry during the conduct of the test.



The test will be performed with ambient wind speeds of less than 3 meters per second.

#### **D. Test Procedure**

The test vehicle will be driven at a speed of 40 to 50 km/h prior to the test to ensure that the OEM specified engine operating temperature has been reached and that the tires have been warmed up.

The acceleration and maximum speed test will be conducted in accordance with the following steps:

1. From a standing start, with engine idling and data acquisition recording, the vehicle operator will apply full throttle until the vehicle's maximum speed has been achieved. The vehicle will be allowed to shift through all transmission gears until the maximum sustained speed has been achieved. A sustained speed means that a speed limit has been achieved and maintained for at least 3 consecutive seconds.
2. The test will be repeated in the opposite direction. Three runs per direction will be performed. The highest value in each direction will be averaged for evaluation purposes of speed and acceleration.

#### **E. Aborted runs and retests.**

The following outlines the different potential situations that will cause the test to be aborted:

a. **Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.

b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.

c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.** If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to two (2) additional attempts.

#### **F. Pass/Fail Criteria:**

BA-118, BA-11-103: This requirement will be assessed as a pass if the LHS variant at GCW sustains a speed of 90km/h or greater for a continuous period of 3 seconds or more. The speed used for this evaluation will be the mean average of the highest sustained speed obtained in each direction.

**G. Scoring Criteria:**

BA-120: The speed used for scoring will be the mean average of:

- a. The LHS variant at GCW maximum sustained speed for any continuous period of 3 seconds in the first direction of travel; and
- b. The LHS variant at GCW maximum sustained speed for any continuous period of 3 seconds in the opposite direction of travel.

BA-514: The acceleration time used for scoring will be the mean average of:

- a. The LHS variant at GVW acceleration time from 0km/h to 80km/h in the first direction of travel; and
- b. The LHS variant at GVW acceleration time from 0km/h to 80km/h in the opposite direction of travel.

**H. Rated Payload Criteria:**

Rated payload requirements are not assessed in this test profile.

#### 4.10 Test Profile: Speed on Grade

The objectives of the speed on grade evaluation is to determine the maximum longitudinal grade between 2% and 5% on which the vehicle is capable of maintaining 80 km/h.

The speed on grade evaluation was developed using a drawbar pull method outlined in TOP 2-2-610, Gradeability and Side Slope Performance, dated 12 March 2009 as a reference only. This test profile outlines the steps and parameters that will be followed for the Speed on Grade testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with each of the following vehicle configurations:

1. The LHS variant at GVW; and
2. The LHS variant at GVW – R (if the Bidder proposes a rated payload).

Tire pressures and adjustable configurations such as transfer case setting, ride height, differential locks will be set at highway settings. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

The instrumentation required for this evaluation is shown in Table 9.

**Table 9**  
**Speed on Grade Evaluation Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS Speed Sensor
Drawbar Load	Tension Link Load Cell
Data Acquisition System	EDAQ

Data will be acquired at a minimum sample rate of 20 Hz.

The equipment necessary for this test includes:

- Towed dynamometer
- Tow cables
- Four (4) clevises
- Calibrated tire pressure gauge
- Digital photographic camera
- Video camera

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

##### C. Facilities and Course Description

The NATC facility will be utilized for all speed on grade runs. The course section that will be used has longitudinal grades of less than one percent (1%) and a lateral grade of less than two percent (2%). The course will be dry during the conduct of the test.

The test will be performed with ambient wind speeds of less than 3 meters per second.

#### D. Test Procedures

The test vehicle will be driven at a speed of 40 to 50 km/h prior to the test to ensure that the OEM specified engine operating temperature has been reached and that the tires have been warmed up.

The drawbar load required to represent a two percent (2%) longitudinal grade will be calculated using Equation 2 and Equation 3.

$$\sin \theta = \frac{P}{W} \quad (\text{Eq. 2})$$

$$\text{Percent Grade} = \tan \theta \cdot 100 \quad (\text{Eq. 3})$$

where:

$\theta$  = Angle of grade

P = Drawbar pull value

W = Vehicle test weight

The following steps will be used to conduct the speed on grade test:

1. The towed dynamometer will be hooked up to the test vehicle with a cable and the tension link load cell in line.
2. The test vehicle and the dynamometer will accelerate to 80 km/h.
3. Once 80 km/h is achieved, drawbar load to simulate a 2 percent grade will be applied by the dynamometer while the test vehicle operator increases throttle to full pedal travel. Dynamometer load will remain constant and allow the speed of the test vehicle to achieve steady state.
4. For the duration of the evaluation, the transmission selector will be placed in “drive” and will be allowed to shift automatically through gears.
5. Drawbar load and GPS speed will be monitored on a digital readout while the test is conducted. Full throttle will be maintained until a sustained speed (3 seconds or more) on a 2% longitudinal grade is reached.
6. Steps 2-5 will be repeated using approximately 3, 4 and 5 percent grade load.
7. At each load, the maximum speed will be evaluated in both directions to negate the effects of wind.

The results will be plotted on a speed versus grade plot and a linear trend line applied to the data. The speed on a 2 percent grade and the maximum grade at 80 km/h will be determined based on the trend line. If the results of either evaluation are outside the minimum or maximum speed or grade load identified above additional runs will be conducted to verify the vehicle capability.

Maximum speed will be plotted as a function of drawbar load for each vehicle. A regression line will be applied to the points and used to interpolate the maximum speed at exactly two percent (2%) representative drawbar as well as the longitudinal grade at which the maximum vehicle speed is exactly 80 km/h.

#### **E. Aborted runs and retests.**

The following outlines the different potential situations that will cause the test to be aborted:

a. **Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.

b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.

c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.**  
If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to two (2) additional attempts.

#### **F. Pass/Fail Criteria:**

BA-122: This requirement will be assessed as a pass if the LHS variant at GVW sustains a speed of 80km/h or greater with the 2% grade drawbar load.

#### **G. Rated Scoring Criteria:**

BA-542: The value used for scoring will be the average of:

- a. The maximum grade on which the LHS variant at GVW can sustain a speed of 80km/h in the first direction of travel; and
- b. The maximum grade on which the LHS variant at GVW can sustain a speed of 80km/h in the opposite direction of travel.

#### **H. Rated Payload Criteria:**

The rated payload portion of the speed on grade test will be assessed as a pass if the LHS variant at GVW-R sustains a speed of 80km/h or greater with the 2% grade drawbar load.

This is one of the two tests required to meet the payload rated requirements (the other being Gradeability). This will constitute a pass for one of the two different tests being assessed for the rated payload. A pass on both tests related to the rated payload requirement is required in order to get the associated points for the evaluation of this requirement. A single fail on any of the two tests related to the rated payload requirement will mean no points will be allocated to this rated requirement.

#### 4.11 Test Profile: Gradeability

The objective of the gradeability evaluation is to establish the test vehicles' performance in ascending and descending grades.

The gradeability evaluation was developed using TOP 2-2-610 as a reference only. This test profile outlines the steps and parameters that will be followed for the Gradeability testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with each of the following vehicle configurations:

1. Cargo variant at CW – 20%, 40%, and 60% reinforced
2. Cargo variant at GVW – 20%, 40%, and 60% reinforced
3. Cargo variant at GVW-R – 60% reinforced
4. LHS variant at CW – 20%, 40% and 60% reinforced
5. LHS variant at GVW – 20% , 40% and 60% reinforced
6. LHS variant at GVW-R – 20%, and 40% reinforced
7. LHS variant at GCW – 20%
8. LHS variant at GCW-R – 20%

Tire pressures and adjustable configurations such as transfer case setting, ride height, differential locks, and any other settings will be set at cross country settings for all hard or reinforced surface grade tests. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

The instrumentation required for this evaluation is shown in Table 10.

**Table 10**  
**Gradeability Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS-Based Antenna

Data will be acquired at a minimum sample rate of 20 Hz.

The equipment necessary for this test includes:

Calibrated tire pressure gauge  
Digital photographic camera  
Video camera

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

##### C. Facilities and Course Description

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

NATC's hard surface 20 %, 40%, and reinforced 60% longitudinal grades will be used for the gradeability evaluations.

#### **D. Test Procedures**

The capability of each test vehicle to ascend and descend slopes at specified grades will be evaluated. Service brake holding and engine shut-down and restart will also be conducted as part of the gradeability evaluation procedure. Fuel level will be no less than 25% and no more than 35 % at the start of testing.

The following grade events will be conducted:

- Ascend the grade in forward facing uphill.
- Ascend the grade in reverse facing downhill.
- Descend the grade in forward facing downhill

Ascending the grade from the bottom **(in a forward gear facing uphill and in a reverse gear facing downhill)** will be conducted in accordance with the following steps:

1. Start at the bottom of the grade.
2. Ascend the grade until the entire vehicle or combination is on the grade.
3. Apply the service brakes and bring the vehicle to a full stop.
4. Place the drive train selector in neutral.
5. Determine if the service brakes hold (an initial settling period of 5 seconds will be permitted, after which the vehicle must remain motionless on the grade).
6. Shut off engine
7. Hold the vehicle stopped using the service brakes for 5 minutes (an initial settling period of 5 seconds will be permitted, after which the vehicle must remain motionless on the grade)
8. If the service brakes hold with the engine off, restart the engine and idle for two (2) minutes
9. Continue the ascent of the grade

Descending the grade from the top (in a forward gear facing downhill) will be conducted in accordance with the following steps:

1. Start at the top of the grade.
2. Descend the grade until the entire vehicle or combination is on the grade.
3. Apply the service brakes and bring the vehicle to a full stop.
4. Place the drive train selector in neutral.
5. Determine if the service brakes hold (an initial settling period of 5 seconds will be permitted, after which the vehicle must remain motionless on the grade).
6. Shut off engine
7. Hold the vehicle stopped using the service brakes for 5 minutes (an initial settling period of 5 seconds will be permitted after which the vehicle must remain motionless on the grade).
8. If the service brakes hold with the engine off, restart the engine and idle for two (2) minutes.
9. Continue the descent of the grade.

#### **E. Aborted runs and retests.**

The following outlines the different potential situations that will cause the test to be aborted:



a. **Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.

b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.

c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.**  
If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to two (2) additional attempts.

#### **F. Pass/Fail Criteria**

BA-124: This requirement will be assessed as a pass if the Cargo variant:

- a. successfully completes each of the 3 grade events on the 60% grade at GVW; and
- b. successfully completes each of the 3 grade events on the 60% grade at CW.

BA-597 – This requirement will be assessed as a pass if the LHS variant:

- a. successfully completes each of the 3 grade events on the 40% grade at GVW; and
- b. successfully completes each of the 3 grade events on the 40% grade at CW.

BA-369 and BA-11-104: These requirements will be assessed as a pass if the LHS variant:

- a. successfully completes each of the 3 grade events on the 20% grade at GCW.

#### **G. Scoring Criteria**

BA-543: The Bidder will receive full points for this requirement if the LHS variant:

- a. successfully completes each of the 3 grade events on the 60% grade at GVW; and
- b. successfully completes each of the 3 grade events on the 60% grade at CW.

#### **H. Rated Payload Pass/Fail Criteria**

The rated payload portion of the gradeability test will be assessed as a pass if:

- a. the Cargo variant at GVW-R successfully completes each of the 3 grade events on the 60% grade;
- b. the LHS variant at GVW-R successfully completes each of the 3 grade events on the 40% grade;
- c. the LHS variant at GCW-R successfully completes each of the 3 grade events on the 20% grade.

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

This is one of the two tests required to meet the payload rated requirements (the other being Speed on Grade). This will constitute a pass for one of the two different tests being assessed for the rated payload. A pass on both tests related to the rated payload requirement is required in order to get the associated points for the evaluation of this requirement. A single fail on any of the two tests related to the rated payload requirement will mean no points will be allocated to this rated requirement.

#### 4.12 Test Profile: Side Slope

The objective of the side slope evaluation is to establish the test vehicles' stability, engine performance, braking, and controllability on side slopes.

The side slope evaluation was developed using U.S. Army TOP 2-2-610, Gradeability and Side Slope Performance, dated 12 March 2009 as a reference only. This test profile outlines the steps and parameters that will be followed for the Side Slope testing as part of the SMP TCP.

##### A. Vehicle Configurations

This test will be conducted with each of the following vehicle configurations:

1. LHS variant at GCW (20% grade only); and
2. Cargo variant at GCW (30% grade only).

Tire pressures and adjustable configurations such as transfer case setting, ride height, differential locks and any other settings set at cross country settings. Any other adjustable settings will be set as recommended by the Bidder on his submitted settings checklist IAW Part 3, Attachment 3, Section 2, paragraph 5.3.3 (c).

##### B. Instrumentation and Equipment

The instrumentation required for this evaluation is shown in Table 11.

**Table 11**  
**Side Slope Evaluation Instrumentation**

Parameter	Sensor
Vehicle Ground Speed	GPS-Based Antenna
Sprung Mass Roll Rate	IMU
Sprung Mass Yaw Rate	IMU
Sprung Mass Lateral Acceleration	IMU
Steering Wheel Angle	String Potentiometer
Data Acquisition System	VBOX

Data will be acquired at a minimum sample rate of 100 Hz.

The equipment necessary for this test includes:

- Calibrated tire pressure gauge
- Digital photographic camera
- Video camera

Canada reserves the right to use alternate test instrumentation and equipment at its discretion.

##### C. Facilities and Course Description

NATC's 20% and 30% reinforced side slopes will be used for all side slope evaluations.

##### D. Test Procedures

The side slope evaluation will be conducted with outriggers installed and a recovery vehicle on-site in case of vehicle instability during testing. Fuel level will be no less than 25% and no more than 35% at the start of testing.

The straight across side slope evaluation will be conducted using the following steps:

- 1) Approach side slope at speeds of 24 km/h and proceed across the slope at a constant speed and in a straight line (driver side up).
- 2) Repeat step 1 bringing the vehicle to a stop using the service brakes on the side slope. Let the vehicle idle for 2 minutes while holding the vehicle stationary with the service brakes. Apply the parking brake to ensure it will hold the vehicle stationary and shut the engine off for 2 minutes. Restart the vehicle, release the parking brake and proceed off the side slope.
- 3) Repeat steps 1-2 in the opposite direction (driver side down).

#### **E. Aborted runs and retests.**

The following outlines the different potential situations that will cause the test to be aborted:

a. **Deviation from the test procedure.** The test will be aborted, the conduct of the test will be reviewed, and the test will be repeated. Results from the aborted test will not be considered.

b. **Failure of the data collection system, or inadequate data captures.** The vehicle will be retested. Results from the aborted test will not be considered.

c. **Vehicle does not behave as expected or incurs fault, malfunction, or mechanical failure.** If the issue is correctable using procedures established within the Bidder's operator manuals, NATC will correct the issue and the testing will be repeated. If the issue is not correctable by NATC using procedures established within the Bidder's operator manuals, the Bidder will be notified in writing with a description of the test vehicle behaviour, fault, malfunction, or mechanical failure. The Bidder will be required to confirm to the CA representative, within the prescribed timeframe, that: the test vehicle behaviour, fault, malfunction, or mechanical failure will not affect the testing and the Bidder recommends that the test resume; or the vehicle should be returned to the Bidder for maintenance. Under no circumstances will Canada or NATC conduct maintenance on the test vehicle, nor conduct any procedures not established within the Bidder's operator manuals. Should the Bidder be unavailable for contact or not provide a response within the prescribed timeframe, then the test vehicle will be returned to the Bidder for maintenance. If the test vehicle is returned to the Bidder for maintenance, the test will be rescheduled for up to two (2) additional attempts.

#### **F. Pass/Fail Criteria**

BA-371: This requirement will be assessed as a pass if the LHS variant at GCW traverses the straight line side slope course at 20% in both directions without wheel lift.

BA-125: This requirement will be assessed as a pass if the Cargo variant at GCW traverses the straight line side slope course at 30% in both directions without wheel lift.

#### **G. Scoring Criteria**

Rated requirements are not assessed in this test profile.

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

#### **H. Rated Payload Criteria**

Rated payload requirements are not assessed in this test profile.

#### 4.13 ACRONYMS

AVTP	Allied Vehicle Testing Publication
BB	Belgian Block
CG	Center of Gravity
CTIS	Central Tire Inflation System
CC	Cross Country Inflation Pressure
CW	Curb Weight
DR	Degraded Pavement Terrain
DOT	Department of Transportation
°F	Degrees Fahrenheit
FMVSS	Federal Motor Vehicle Safety Standards
ft	Feet
g	Acceleration of gravity
GVW	Gross Vehicle Weight
H	High Range Gear
H/L	High Range Gear with Differentials Locked
HZ	Hertz
HWY	Highway Inflation Pressure
km	Kilometres
km/h	Kilometres per hour
L	Low Range Gear
L/L	Low Range Gear with Differentials Locked
LG	Loose Gravel Terrain
m	Meter

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
Test Matrix – TCP details and test profiles

Appendix 1 to  
Schedule 5-2 to  
Section 2 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

Mi	Miles
mph	Miles per Hour
MSS	Mud, Sand and Snow Inflation Pressure
MSVS	Medium Support Vehicle System
N/A	Not Applicable
NATC	Nevada Automotive Test Center
NATO	North Atlantic Treaty Organization
P	Paved Road Terrain
RCI	Rating Cone Index
RMS	Root Mean Square
sec	Second
SAE	Society of Automotive Engineers
T.C.	Transfer Case Gear
TOP	Test Operations Procedure
TR	Trails Terrain
Trans.	Transmission Gear
VCI	Vehicle Cone Index
XC	Cross Country Terrain

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 4 – Evaluation Procedures and Basis of Selection

Attachment 5 – Technical Proposal Evaluation Plan

Section 2 – Acquisition Proposal Preparation Instructions

Schedule 5-2 – Test Matrix

Appendix 1 – TCP details and test profiles

Attachment 1 – NATC Forms





# Nevada Automotive Test Center

A Division of Hodges Transportation, Inc.

*Real Time,  
Real World  
Solutions™*

P.O. Box 234  
Carson City, Nevada 89702-0234  
Phone: (775) 629-2000  
Fax: (775) 629-2029  
email: [hhodgesjr@nadc-ht.com](mailto:hhodgesjr@nadc-ht.com)

## INTERNATIONAL VISIT AUTHORIZATION REQUEST

Date \_\_\_\_\_

TO: Paul Wonder  
Facility Security Officer  
Hodges Transportation, Inc.  
dba Nevada Automotive Test Center  
P. O. Box 234  
Carson City, Nevada 89702  
Email address [pwonder@nadc-ht.com](mailto:pwonder@nadc-ht.com)

### REQUESTING FACILITY OR ORGANIZATION

1. NAME:  
POSTAL ADDRESS: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_ FAX NUMBER: \_\_\_\_\_  
EMAIL ADDRESS: \_\_\_\_\_

### INDUSTRIAL FACILITY TO BE VISITED

2. NAME: Hodges Transportation Inc, Nevada Automotive Test Center  
ADDRESS: P. O. Box 234, Carson City, Nevada 89702  
TELEPHONE NUMBER: (775) 629-2000 FAX NUMBER: (775) 629-2029  
POINT OF CONTACT: \_\_\_\_\_

3. DATES OF VISIT: \_\_\_\_\_ TO \_\_\_\_\_

4. TYPE OF VISIT:

- |                                                 |                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------|
| <input type="checkbox"/> GOVERNMENT SPONSORED   | <input type="checkbox"/> INITIATED BY REQUESTING AGENCY OR FACILITY  |
| <input type="checkbox"/> COMMERCIAL INITIATIVE  | <input type="checkbox"/> BY INVITATION OF THE FACILITY TO BE VISITED |
| <input type="checkbox"/> STATE DEPART SPONSORED | <input type="checkbox"/> OTHER (SPECIFY) _____                       |

CONTRACT NUMBER (IF APPLICABLE): \_\_\_\_\_

5. SUBJECT TO BE DISCUSSED:

6. ANTICIPATED LEVEL OF INFORMATION TO BE INVOLVED:

7. PARTICULARS OF VISITORS:

NAME: \_\_\_\_\_  
DATE OF BIRTH: \_\_\_\_\_ PLACE OF BIRTH: \_\_\_\_\_  
SECURITY CLEARANCE: \_\_\_\_\_ ID/PASSPORT NUMBER: \_\_\_\_\_  
VISA NUMBER: \_\_\_\_\_  
NATIONALITY: \_\_\_\_\_  
POSITION: \_\_\_\_\_

NAME: \_\_\_\_\_  
DATE OF BIRTH: \_\_\_\_\_ PLACE OF BIRTH: \_\_\_\_\_  
SECURITY CLEARANCE: \_\_\_\_\_ ID/PP NUMBER: \_\_\_\_\_  
VISA NUMBER: \_\_\_\_\_  
NATIONALITY: \_\_\_\_\_  
POSITION: \_\_\_\_\_

7. REMARKS

SIGNATURE OF REQUESTOR \_\_\_\_\_  
NAME OF REQUESTOR \_\_\_\_\_  
POSITION \_\_\_\_\_

Visitor Release and Entrance Authority  
NEVADA AUTOMOTIVE TEST CENTER  
A Division of Hodges Transportation, Inc.

Time In: \_\_\_\_\_ 7

Day/Time Out \_\_\_\_\_

DATE: \_\_\_\_\_  
(DAY) (MONTH) (YEAR)

Print - NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_

US Citizen? Yes/No \_\_\_\_\_ Security Clearance: \_\_\_\_\_

Country

Company \_\_\_\_\_

Division/Program Group/Office \_\_\_\_\_

Business Address: \_\_\_\_\_

Business Phone: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Resident Address: \_\_\_\_\_

Purpose of Visit: \_\_\_\_\_ Contact: \_\_\_\_\_

I Carry: Camera/Video Equipment \_\_\_\_\_ Briefcase \_\_\_\_\_ Package \_\_\_\_\_

Cell Phone \_\_\_\_\_ Laptop Computer \_\_\_\_\_ MIS Authorization \_\_\_\_\_

**NOTICE:** No computers may be connected to the HTI network without written authorization. On-site modem use is at the discretion of your HTI contact. Unauthorized network access can result in the confiscation of your computer.

HTI Authorization: Camera (OK) \_\_\_\_\_ (STORED) \_\_\_\_\_  
Exco Signature Office Signature

**NOTICE:** No cameras can be carried or used by this visitor during his/her visit without the written authorization of Corporate Officer. Any camera/video equipment may be left at owners risk at the Visitor's Desk. Unauthorized photographs, film or videotapes may be confiscated by the Company.

#### VISITOR RELEASE

In consideration for the permission granted to me by Nevada Automotive Test Center, a Division of Hodges Transportation, Inc, to enter upon its premises, observe its test procedures or participate therein, I do hereby release and hold harmless said Hodges Transportation, Inc, and its officers, agents and employees from liability or claim of liability arising by reason of any injury to my person or property occurring while I am on premises owned, or controlled by said Corporation or in or about any vehicle owned, leased or operated by said Corporation or any of its officer, agents or employees. Also in Consideration of such permission, the undersigned agrees not to disclose to others, nor to use any information disclosed to him/her by the Corporation, or derived by him/her during his/her visit, except for any part of such information that is available publicly or from other lawful sources.

Visitor Signature \_\_\_\_\_

HTI Escort to fill in Below

Authorized length of visit From: \_\_\_\_\_ to \_\_\_\_\_ Badge Issued \_\_\_\_\_

Authorized by: \_\_\_\_\_ Badge Returned \_\_\_\_\_

This pass authorizes this visitor to enter the facility for this visit only. Visitor must be accompanied by HTI Escort at all times. Badge must be returned or renewed before expiration date above.

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06-MSMP/L

Part 4 – Evaluation Procedures and Basis of Selection

Attachment 5 – Technical Proposal Evaluation Plan

Section 2 – Acquisition Proposal Preparation Instructions

Schedule 5-3 – Human Factors Evaluation Requirements

## 1. HFE Scope/Overview

The Human Factors Evaluation (HFE) portion of the Technical Compliancy Program will assess certain Human Factors (HF) Requirements which are detailed in article 3 below. The HF requirements are grouped into 15 categories, each of which is comprised of distinct criteria, each of which is reflected in the HF Evaluation Questionnaire. In order to conduct this assessment, two groups of approximately 10 Canadian Forces personnel (hereinafter referred to as evaluators), each trained and experienced in the use of medium/heavy logistics vehicles, will execute a series of representative Tasks with each Bidder's Cargo variant Test Article (hereinafter referred to simply as the Test Article) under controlled conditions and while wearing Canadian military environmental and operational clothing and equipment. After completing all of the Tasks, each evaluator will then complete the HF Evaluation Questionnaire, from which an Overall HF Score and corresponding HF points will be calculated for each Test Article, as described in Part 4, Attachment 5, Section 2, Schedule 5-4.

## 2. HFE Evaluators

For this HFE, the evaluators will be members of the Canadian Forces and hold qualifications as described at per Part 4, Attachment 5, Section 2, Schedule 5-2, Appendix 1 article 3.4.2.

## 3. HF Requirements - Categories and Criteria

The HF Requirements that will be evaluated during this HFE are described within the following 15 categories and associated criteria. During the Evaluation, the evaluators will be wearing the Canadian Forces standard combat uniform with soft cap (referred to as "CADPAT"), with or without the Full Fighting Order (FFO) including ballistic plates and with Night Vision Goggles (NVG) in stowed position (i.e. mounted on the helmet), or in some instances also with limited winter clothing, specifically mukluks and Arctic mitts (details are outlined in article 6 below).

### Category 1 - Ease of Cab Ingress and Egress - Driver Station

The evaluators will consider the size and location of steps and grab handles and their perception of safety while entering and exiting the driver station, when assessing the following criteria:

- (i) Ability to easily enter the driver station from the outside.
- (ii) Ability to easily exit from the driver station.
- (iii) Ability to easily open or close the driver's door.
- (iv) Presence of any projections or obstructions that could cause snagging or injury to the driver during vehicle ingress or egress.

### Category 2 - Ease of Cab Ingress and Egress – Passenger Station

The evaluators will consider the size and location of steps, size and location of grab handles and their perception of safety while entering and exiting the passenger station, when assessing the following criteria:

- (i) Ability to easily enter the passengers' station from the outside.
- (ii) Ability to exit easily from the passenger station(s).
- (iii) Ability to easily open or close the passenger door.
- (iv) Presence of any projections or obstructions that could cause snagging or injury to the passenger(s) during vehicle ingress or egress.

### Category 3 - Cab Workstation – Driver Seat Design

The evaluators will consider the driver's seat back angle, seat pan angle, lower back support, adjustments, and comfort when assessing the following criteria:

- (i) Range and effort required to adjust the seat.
- (ii) Design geometry, including angle, posture and dimensions of the seat.
- (iii) Materials and padding of the seat.

### Category 4 - Cab Workstation - Driver Station Design

The evaluators will consider fit while seated at the driver station when assessing the following criteria:

- (i) Adequacy of headroom.
- (ii) Adequacy of leg- and foot-room.
- (iii) Adequacy of hip room.
- (iv) Adequacy of arm room.

### Category 5 - Cab Workstation - Passenger Station Design

The evaluators will consider fit while seated in the passenger station when assessing the following criteria:

- (i) Adequacy of headroom.
- (ii) Adequacy of leg- and foot-room.
- (iii) Adequacy of hip room.
- (iv) Adequacy of arm room.

### Category 6 - Display, Instrument and Gauge Design

The evaluators will assess the criteria of design, location and readability for each of the components below:

- (i) Speedometer and odometer(s)
- (ii) Gauges
- (iii) Warning indicators

### Category 7 - Control Design and Operation

The evaluators will assess the criteria of design, location, spacing and effort to activate for each of the the following controls:

- (i) Accelerator pedal.
- (ii) Brake pedal.
- (iii) Transmission shift lever.
- (iv) All-wheel drive control.
- (v) Steering wheel.
- (vi) Emergency / parking brake.
- (vii) Heater/ventilation control.
- (viii) Starter/ignition switch.
- (ix) Cold start control.

- (x) Horn.
- (xi) Master disconnect switch.
- (xii) Window opening control.
- (xiii) Windshield wiper/washer.
- (xiv) 4-way flasher control.
- (xv) Headlights / parking lights.
- (xvi) Interior lights control.
- (xvii) Headlight dimmer control.
- (xviii) Turn signal control.
- (xix) Standard auxiliary-start receptacle.

Category 8 - External Visibility – Driver

The evaluators will consider the driver's field of view when assessing the following criteria:

- (i) Visibility to the front.
- (ii) Visibility close in.
- (iii) Visibility to the rear.
- (iv) Visibility to either side (left and right).
- (v) Visibility with the sun visors down in front and to the side.
- (vi) Visibility in mirrors.
- (vii) Visibility with headlights on

Category 9 - Cab and Cargo Environment – Ventilation

The evaluators will consider the rate of airflow, direction and adequacy when assessing the following criteria:

- (i) Ventilation at the driver's station.
- (ii) Ventilation at the passenger station

Category 10 - Cab Environment – Noise/Vibration/Internal Visibility

The evaluators will assess the criteria of loudness and frequency of noises and vibrations, as well as adequacy of internal visibility (at night) for each of the following cab environment elements :

- (i) Noises.
- (ii) Steering wheel vibration.
- (iii) Whole body vibration.
- (iv) Internal lighting at night.

Category 11 - Cab and Cargo Environment – General Safety:

The evaluators will assess the criteria of injury prevention and stowage of loose items for each of the following elements of the cab and cargo area:

- (i) Snag and injury hazards.
- (ii) Heater safeguards.
- (iii) Stowage devices.

Category 12 - Vehicle Handling Characteristics:

The evaluators will consider the general manoeuvrability and overall performance of the vehicle when assessing the following criteria:

- (i) Ability to corner at low and high speeds.
- (ii) Ability to brake at high speed.
- (iii) Ability to vehicle control while braking.
- (iv) Ability to road feel.
- (v) Ability to drive at low speed controllability at Gross Vehicle Weight.
- (vi) Ability to drive at high speed controllability at Gross Vehicle Weight.
- (vii) Controllability while driving on soft terrain.
- (viii) General acceleration and responsiveness.

Category 13 - Ease of Cargo Bed Ingress and Egress:

The evaluators will consider their ease of and the perception of safety while entering and exiting the cargo bed area at the tailgate when assessing the following criteria:

- (i) Ability to easily enter.
- (ii) Ability to easily exit.
- (iii) Presence of any projections or obstructions that could cause snagging or injury to personnel during ingress or egress.
- (iv) Presence of, accessibility and ease of use of climbing devices (ladder).

Category 14 - Driver Inspection:

The evaluators will conduct the Driver's Inspection and consider the location and size of hand- and/or foot-holds and their perception of safety when assessing the following criteria:

- (i) Ability to check the exterior body of the Vehicle for damage and cleanliness, including windshield and window glass and all external lighting.
- (ii) Ability to check the Vehicle's fluid levels.
- (iii) Ability to check hoses and clamps, electrical wiring and the battery and cables for condition and security.
- (iv) Ability to check the inside of the cab and cargo bed area for evidence of leaks.
- (v) Ability to check the condition and security of the seat belts inside the cab.
- (vi) Ability to check the side and rear view mirrors for condition and proper adjustment.
- (vii) Ability to check the Vehicle's warning lights for serviceability.

Category 15 - Spare Tire Replacement:

The evaluators will consider the effort required to access the spare tire and on-board tools, the ease with which the tire change can be effected and the adequacy of the on-board tools to do the job when assessing the following criteria:

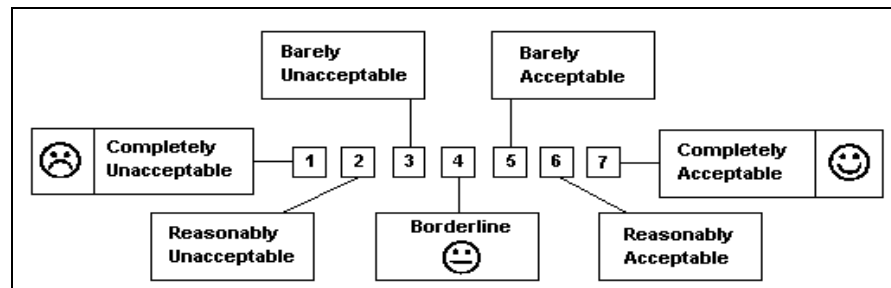
- (i) Ability to remove and replace a tire from the axle using only the on-board tools provided.
- (ii) Ability to remove and replace the spare tire from the spare tire carrier assembly using only the on-board tools provided.



- (iii) Accessibility of the spare tire as well as of the on-board tools.

#### 4. Rating of Criteria

Each of the criteria within the 15 HF Requirements Categories described above will be reflected in the HF Evaluation Questionnaire and will be phrased in terms that allow the evaluators to respond by rating acceptability using the Likert Scale, shown below. The numbers on the scale are the numbers that will be used to determine the Average Criteria Score (which is then used for the remainder of the calculation to derive the HF points that will be awarded) for each Bidder's Test Article (see Part 4, Attachment 5, Section 2, Schedule 5-4). "Acceptable" is deemed to be the range of ratings on the scale including and between "Barely Acceptable (5)" and "Completely Acceptable (7)."



#### 5. Conduct of HFE

The HFE will be conducted by Defense Research and Development Canada (DRDC). The HFE will be conducted in two groups; each group will include approximately 10 CF personnel (evaluators). Each group will complete three Phases as follows:

- a. Phase 1: Rehearsal of Concept and Anthropometry.
  - (i) Anthropometric measurements of the trial evaluators will be taken by DRDC to confirm that the evaluators are not outside the range of the anthropometric requirement provided at Part 7, Annex B, Appendix BA, BA-364;
  - (ii) DRDC will provide training on aspects of Human Factors Engineering to the evaluators as it pertains to logistics vehicles, and will familiarize evaluators with the HF Evaluation Questionnaire; and
  - (iii) DRDC will provide Rehearsal of Concept training on the Tasks that the evaluators will be expected to carry out during execution.
- b. Phase 2: Driver Training by Bidders.
  - (i) Bidders will provide driver training to the evaluators as detailed in Part 4, Attachment 5, Section 2, Schedule 5-2, Appendix 1.

c. Phase 3: HFE Execution.

- (i) Evaluators will carry out the prescribed Tasks described in article 6.2 below and complete the HF Evaluation Questionnaire as described in article 6.4 below.

## 6. HFE Execution

### 6.1 Evaluators

As noted above, it is expected that each group of evaluators will comprise approximately 10 Canadian Forces personnel. This will allow the assessment of each test to be completed in pairs and each evaluator to be paired with another evaluator in order to assess each Bidder's Test Article. It is anticipated that each pair of evaluators will complete all of the Tasks and the Questionnaire for each Bidder's Test Article in a block of 2 days. The HFE block schedule will be drawn up to maximize distinct evaluator pairings. An example of a schedule is shown below based on 5 Bidder's Test Articles (TAx) with 10 evaluators (A-J) across 10 days of HFE execution.

	Block 1 (day 1-2)	Block 2 (day 3-4)	Block 3 (day 5-6)	Block 4 (day 7-8)	Block 5 (day 9-10)
<b>TA1</b>	A+B	I+D	G+F	E+H	C+J
<b>TA2</b>	C+D	A+F	I+H	G+J	E+B
<b>TA3</b>	E+F	C+H	A+J	I+B	G+D
<b>TA4</b>	G+H	E+J	C+B	A+D	I+F
<b>TA5</b>	I+J	G+B	E+D	C+F	A+H

### 6.2 Tasks

The seven tasks outlined in the table below have been designed to provide the evaluators with sufficient exposure to the Bidder's Test Article to permit them to assess the acceptability of each of the HF Requirements Categories and related Criteria. The evaluators will only complete the HF Questionnaire once they have completed the following seven Tasks with each Bidder's Test Article.

Task #	Title	Description
Task 1	Daily Inspection (Static)	Using the Daily Inspection checklist (refer to Part 4, Attachment 5, Section 2, Sched 5-2, Appx 1, as well as the sample CF Daily Inspection Checklist provided below), each evaluator will conduct a Daily Inspection three times on the Test Article, twice in conjunction with the Task 2 Day Drive (once while wearing CADPAT, once while wearing FFO with NVGs in the stowed position), and once in conjunction with Task 3 Night Drive while wearing CADPAT. The evaluator will systematically inspect all systems and components of the vehicle including vehicle fluid levels, lighting systems, environmental systems, tires and relevant engine components. The evaluator will open, inspect and close all maintenance

Task #	Title	Description
		hatches and covers pertinent to conducting a daily inspection and do so using his hands with or without the on-board tools.
Task 2	Day Drive (Dynamic)	The Day Drive will be conducted on a designated route (approximately 125 – 150 km) twice by each evaluator, once while wearing CADPAT, and once while wearing FFO. The designated route will comprise both improved and unimproved surfaces.
Task 3	Night Drive (Dynamic)	The Night Drive will be conducted on designated paved route (approximately 40 km) once by each evaluator while wearing CADPAT. The Night Drive will commence only once full dark (as per local meteorological reports) has been achieved.
Task 4	Spare Tire Replacement (Static)	Working in pairs, each evaluator, with the assistance of the second evaluator, will change the right rear tire (mounted on the wheel) of the Test Article while wearing FFO and using only the on-board tools. Evaluators will have access to the written tire change instructions and any relevant training material provided by the bidder for the Test Article. With the Test Article parked on level ground, the evaluator will retrieve the applicable on-board tools from their stowage location, remove the spare tire from its stowage location, remove the right rear tire from the axle, install the spare tire on the axle, remove the spare tire from the axle, return the original tire to the axle, re-install the spare tire back in its stowage location and re-stow the on-board tools.
Task 5	Ingress/Egress (Static)	The Ingress/Egress task will be conducted once by each evaluator while wearing CADPAT and mukluks and Arctic mitts. With the Test Article parked on level ground, the evaluator will open the driver's side door and enter the vehicle to sit in the seat. The evaluator will then close the door, place his feet on the floor pedals and systematically touch all critical controls in the driver's crew station. The evaluator will then open the door and exit the vehicle. The evaluator will walk around to the passenger's side, open the door, enter the vehicle, and again touch all relevant passenger crew station controls. The user will then exit the vehicle.
Task 6	Safe Backing (Dynamic)	With a co-driver acting as ground guide, each evaluator will drive the Test Article two times in reverse through the CF standard safe backing course (as designed for the CF Safe Backing Training), while wearing CADPAT. The safe backing course comprises four distinct sections to simulate the following backing situations: backing into an alley on the right; backing into an alley on the left; negotiating an offset staggered alley; straight backing through a tight alleyway. The course will be clearly delineated using pylons.
Task 7	Cargo Bed Ingress/Egress	The Cargo Bed Ingress/Egress Task will be conducted twice by each evaluator, once while wearing CADPAT, and once while wearing FFO. With the Test Article parked on level ground, the evaluator will open or

Task #	Title	Description
	(Static)	lower any tail gates or hand/foot-hold devices, climb unassisted into the cargo bed using only the integral hand-holds and foot-holds, stand upright, and then climb out of the cargo bed using only the integral hand-holds or foot-holds.

### 6.3 SAMPLE CF DAILY INSPECTION CHECKLIST

<b>LOGISTICS TRUCK – SAMPLE CF DAILY INSPECTION CHECKLIST</b>
ENGINE COMPARTMENT:
Engine oil
Engine coolant level
Power steering level
Clutch fluid level
Windshield washer fluid level
Hydraulic pump handle stowage
Intercooler for damaged fins and debris
V-belt tension/fan free wheel
Fuel lines, fittings and filters
Coolant, hydraulic and pneumatic lines and fittings
Electrical connections
General security of engine components; check grease fittings and grease as required
EXTERIOR:
Doors, mirrors and door mechanism
Air couplers (front and rear)
Body damage
Wheels, tires, spare tire and mud flaps
Fuel tank and system
Drain fuel prefilter
Hydraulic reservoir and filter
Superstructure, tarpaulin, tie-downs points, extension racks and troop seats
tailgate, locking levers and access mechanisms
Pintle hook; check grease fittings and trailer cable receptacle
Self recovery guide pulleys, cable hooks, guide tray and fairleads; check grease fittings
Jerry can brackets
Drop sides, locking levers and tie down points
Camouflage net box cover
Tool box,
Turbo protection unit
Air filter assembly, dust boot
Coolant level (cooling tower if equipped)
Fuel fired coolant heater
Power receptacle and battery box
Emergency shut off lever

Shock, spring, propeller shafts and differentials; check grease fittings
Brake pneumatic lines, hoses, brake linkage and brake adjusters; check grease fittings
Indication of leaks
Exhaust system
Drain air reservoirs of condensation
INTERIOR:
Operators instructions, trip ticket and DND 423, collision report form
Fire extinguisher and first aid kit
Mirrors adjust
Hand brake
Horn
Seat and Seat belts
INSTRUMENTS, LIGHTS AND CONTROLS (with Engine Running):
Engine oil pressure, voltmeter, fuel gauge, coolant temperature, torque converter oil temperature, tachometer and air pressure gauges
Warning and indicator lights
Clutch, accelerator interlock operation
Heating and ventilation controls
Exhaust system
Brake system mandatory checks
Check lights
Door windows, windshield, windshield wiper arms and blades

### 6.3 Schedule (evaluation block)

Each scheduled evaluation block (example at 6.1 above) will begin with evaluators paired up and assigned to a Bidder's Test Article as per the pre-defined schedule. All maintenance routines that were in place for the Performance Test portion of the TCP will be in place for the HFE evaluation blocks (ie morning and evening inspections and maintenance). One evaluator will be designated as the driver and the other designated as the co-driver. The following table provides a general outline of the two day evaluation block (timeline subject to change):

DAY 1		
Time	Evaluator 1 (E1)	Evaluator 2 (E2)
0700	Transit to NATC. Evaluators will be attired in CADPAT for task conduct (attire will change throughout the day depending on task). Bidders receive Test Articles to conduct the Daily Driver Inspection and sign-off of the Daily Inspection Form.	
0730		
0800	Task 1 Daily Inspection	Route map recce
0830	Task 2 Day Drive <ul style="list-style-type: none"> <li>E1 driver</li> <li>E2 co-driver</li> </ul>	
0900		
0930		
1000		
1030		
1100	Task 6 Safe Backing	Assist Safe Backing
1130		
1200	Lunch	
1230	Route map recce	Task 1 Daily Inspection
1300	Task 2 Day Drive <ul style="list-style-type: none"> <li>E1 co-driver</li> <li>E2 driver</li> </ul>	
1330		
1400		
1430		
1500		
1530	Assist safe backing	Task 6 Safe Backing
1600		
1630	Task 5 Ingress/Egress	Task 5 Ingress/Egress
1700	Task 8 Cargo Bed Ingress/Egress	Task 7 Field of View
1730	Task 7 Field of View	Task 8 Cargo Bed Ingress/Egress
1800	Break and Supper	
1830		
1900		
1930		
2000	Task 3 Night Drive (including Task 1 Daily Inspection)	
2030	<ul style="list-style-type: none"> <li>E1 driver</li> <li>E2 co-driver</li> </ul>	
2100	Task 3 Night Drive (including Task 1 Daily Inspection)	
2130	<ul style="list-style-type: none"> <li>E1 co-driver</li> <li>E2 driver</li> </ul>	
2200	Transit to hotel. Test Articles returned to Bidders for Preventive Maintenance.	
2230		

DAY 2		
Time	Evaluator 1	Evaluator 2
0700	Transit to NATC. Evaluators will be attired in FFO for task conduct (attire will change throughout the day depending on Task). Bidders receive Test Articles to conduct the Daily Driver Inspection and sign-off of the Daily Inspection Form.	
0730		
0800	Task 1 Daily Inspection	Route map recce
0830	Task 2 Day Drive: <ul style="list-style-type: none"> <li>E1 driver</li> <li>E2 co-driver</li> </ul>	
0900		
0930		
1000		
1030		
1100	Task 4 Tire Change	Assist tire change.
1130		
1200	Lunch	
1230	Route map recce	Task 1 Daily Inspection
1300	Task 2 Day Drive <ul style="list-style-type: none"> <li>E1 co-driver</li> <li>E2 driver</li> </ul>	
1330		
1400		
1430		
1500		
1530	Assist tire change	Task 4 Tire Change
1600		
1630	Evaluators complete the HF Evaluation Questionnaire	
1700		
1730	Transit to hotel. Test Articles returned to Bidders for Preventive Maintenance.	

#### 6.4 HF Evaluation Questionnaire

Once each pair of evaluators has completed the block of seven tasks, they will then complete the HF Evaluation Questionnaire, during which time they will be permitted to sit in, walk around or climb onto the Test Article they are assessing.

#### 6.5 Correlation between HF Requirements Categories, and Tasks

The following table shows the correlation between tasks and categories.

	Categories	<b>Tasks</b> <b>D=Dynamic Task S = Static Task</b>						
		Daily Inspection (S)	Day Drive (D)	Night Drive (D)	Tire Change (S)	Ingress/Egress (S)	Safe Backing (S)	Cargo Bed Ingress/Egress (S)
1	Ease of Cab Ingress and Egress-Driver Station					√		
2	Ease of Cab Ingress and Egress-Passenger Station					√		
3	Cab Workstation-Driver Seat Design		√	√				
4	Cab Workstation – Driver Station Design		√	√				
5	Cab Workstation - Passenger Station Design		√	√				
6	Display, Instrument and Gauge Design		√	√				
7	Control Design and Operation		√	√				
8	External Visibility – Driver		√	√			√	
9	Cab and Cargo Environment – Ventilation		√	√				
10	Cab Environment – Noise/Vibration/Internal Visibility		√	√			√	
11	Cab and Cargo Environment – General Safety		√	√				
12	Vehicle Handling Characteristics		√	√				
13	Ease of Cargo Bed Ingress and Egress							√
14	Driver Inspection	√						
15	Spare Tire Replacement				√			



# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06MSMP/L

Part 4 – Evaluation Procedures and Basis and Basis of Selection

Attachment 5 – Technical Proposal Evaluation Plan

Section 2 – Acquisition Proposal Preparation Instructions

Schedule 5-4 – Human Factors Evaluation (HFE) Plan

- 1.1 An Overall HF Score, for each bidder, will be calculated from the scores on the HF Evaluation Questionnaire of all evaluators (both groups); this score will yield a value between zero (0) and one (1) which will then be multiplied by the total points available for HF, as provided at part 4, Attachment 5, section 4, to yield the bidders' points for HF.

- 1.2 The Overall HF Score is calculated as follows:

Step 1: Calculate the Average Criteria Score (ACR) of all evaluator's scores for that criteria.

Let N =number of evaluators  
CR = evaluators criteria score  
ACR = average criteria score

$$ACR = 1/N \sum_{i=1}^N CR$$

- 1.3 Step 2: Calculate the Average Category Score (ACAT).

Let K=number of criteria in the category  
ACAT=average category score

$$ACAT = 1/K \sum_{i=1}^K ACR$$

- 1.4 Step 3: Calculate the HF Score for each category (points are awarded only for average category scores greater than 4).

$$CAT \text{ HF Score} = \frac{ACAT - 4}{3}$$

Note that for any Average Category Score less than or equal to 4.0, the HF Score will be zero (0) (or, where CAT HF Score is negative, the HF Score will be zero).

- 1.5 Step 4: Overall HF Score is the average of the sum of 15 CAT HF Scores.

$$\text{Overall HF Score} = 1/15 \sum_{i=1}^{15} \text{CAT HF Score}$$

- 1.6 The bidder's HF points are then calculated as follows:

$$\text{HF Points} = \text{Bidder's Overall HF Score} \times 2.1000$$

1.7 Example:

Example table of HF Points calculation for all evaluators (2 groups)														
Category	Criteria	Criteria Scores by Evaluator										Average Criteria score ACR	Average Category Score ACAT	Category HF Score
		P1	P2	P3	P4	... P5	P6	P7	P18	P19	P20			
CAT 1	CR (i)	4	5	5	3	..	..	..	5	6	6	4.9000	5.6250	0.5417
	CR (ii)	5	4	6	7	..	..	..	6	5	3	5.3000		
	CR (iii)	6	7	7	6	..	..	..	2	7	6	6.1000		
	CR (iv)	7	6	7	6	..	..	..	6	5	7	6.2000		
CAT 2													6.1250	0.7083
CAT 3													6.3750	0.7917
CAT 4													6.5250	0.8417
CAT 5													5.8500	0.6167
CAT 6	CR (i)	2	1	0	5	..	..	..	4	7	1		3.2230	0.0000
	CR (ii)	2	1	0	5	..	..	..	4	4	1			
	CR (iii)	2	1	0	5	..	..	..	4	4	1			
CAT 7													5.9750	0.6583
CAT 8													3.5500	0.0000
CAT 9													5.6000	0.5333
CAT 10													5.6250	0.5417
CAT 11													6.1500	0.7167
CAT 12													6.4500	0.8167
CAT 13													5.9750	0.6583
CAT 14													6.1250	0.7083
CAT 15													6.6000	0.8667
Overall HF Score														0.6000
HF Points=0.6000 X 2.1000														1.2600

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06MSMP/L

Part 4 – Evaluation Procedures and Basis of Selection

Attachment 5 – Technical Proposal Evaluation Plan

Section 3- ISS Proposal Evaluation Plan

## **1. Management and ISS Technical Evaluation Overview**

The ISS technical proposal Mandatory Criteria and Technical Score can be found in Part 4, Attachment 5, Section 4.

In this section, each assessed rated requirement will be given a percentage mark between zero (0) and one hundred percent (100%) in accordance with the "mark to allocate" column of Table 5.2 below. For each of those assessed rated requirements, the mark will then be multiplied by the associated available points (object points) as outlined in Part 4, Attachment 5, Section 4 which will give a number of points for each rated requirements. The score for the ISS Technical evaluation will then be the sum (rounded to four (4) decimals) of all points.

## **2. Deleted**

## **3. Mandatory Requirements**

### **3.1 Technical Performance Requirements**

3.1.1 The Bidder will be evaluated based on its response to the requirements of Annex B to Part 8.

3.1.2 Requirements identified as "SOC" in the "Proposal Compliance Methods" column of Appendix BE of Annex B to Part 8 will be deemed compliant if the Bidder provides a signed copy of its proposal certification (Part 5, Attachment 2 - Certificate of Compliance).

### **3.2 Life Cycle Cost (LCC)**

3.2.1 Submission of LCC data, identified in the Proposal Preparation Instructions (Part 3, Attachment 3, Schedule 3-2), is a mandatory requirement.

### **3.3 Draft ISS Plan**

3.3.1 Submission of a Draft ISS Plan, identified in the Proposal Preparation Instructions (Part 3, Attachment 3, Section 3), is a mandatory requirement. It is a mandatory requirement that the ISS plan achieve a pass mark of 70 %.

### **3.4 Corporate Experience and Capability**

3.4.1 Submission of the Corporate Experience and Capability, identified in the Proposal Preparation Instructions (Part 3, Attachment 3, Section 3), is a mandatory requirement. It is a mandatory requirement that the bidder achieve an overall mark of no less than 70% for the combined criteria in Table 5.3 below.

## **4. Point Rated Requirements Evaluation**

### **4.1 Life Cycle Cost (LCC) Point Rated Evaluation**

4.1.1 Based on the subset of Life Cycle Cost (LCC) information/data provided by Bidders IAW Part 3, Attachment 3, schedule 3-3, a total LCC over the 20-year service life of each Bidder's proposed equipment will be determined IAW Part 4, Attachment 5, Schedule 5-5.

4.1.2 The simulated total LCC will be converted to a score IAW Schedule 5-5.

#### 4.2 Draft ISS Plan Evaluation

- 4.2.1 Although not all sections of the Draft ISS Plan are evaluated, the Bidder should provide a complete draft plan as part of its proposal.
- 4.2.2 The individual sections and corresponding weightings of the Draft ISS Plan are identified in Table 5.1. Score percentages will be awarded for each section in accordance with Table 5.2.

<b>Table 5.1 Detailed Evaluation Structure for Draft ISS Plan</b>		
<b>Technical and Management Evaluation Criteria</b>	<b>Weight Percentage</b>	<b>Allocated mark</b>
<b>ISS Plan (Pass Mark is 70%)</b>	<b>N/A</b>	<b>N/A</b>
▪ Content Requirements	Not Evaluated	
▪ Project Management Framework	2/28	
▪ HR Management	Not Evaluated	
○ Points of Contact	Not Evaluated	
▪ Schedule	1/28	
▪ Procurement Management	Not Evaluated	
▪ Acquisition and ISS Contracts	1/28	
▪ Equipment Management Team (EMT)	Not Evaluated	
▪ PMO MSVS ISS/ILS Team	Not Evaluated	
▪ Data Management	1/28	
▪ Performance Management	2/28	
▪ Technical Problem Management (TPM)	2/28	
▪ Cost Control	Not evaluated	
▪ Quality Management	1/28	
▪ FSR Support	1/28	
▪ Major Repair Program	2/28	
▪ Supply Support (Spare parts)	3/28	
▪ R&O	3/28	
▪ Obsolescence	2/28	
▪ Training Support	1/28	

<b>Table 5.1 Detailed Evaluation Structure for Draft ISS Plan</b>		
<b>Technical and Management Evaluation Criteria</b>	<b>Weight Percentage</b>	<b>Allocated mark</b>
▪ Engineering Support	2/28	
▪ Support to EMT	1/28	
▪ Packaging, Handling, Storage and Transportation	1/28	
▪ Environmental, Health and Safety (EHS) Management	Not evaluated in this section	
▪ Reliability and Maintainability	1/28	
▪ Special Circumstances	1/28	

<b>Table 5.2 – Scoring Guide for Draft Plan</b>	
<b>Assessment of Section of Document</b>	<b>mark to Allocate</b>
This section of the draft document demonstrates that the Bidder fully understands the requirements and the final version will need no additional clarifications or revisions in this section; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which addresses all of the required elements listed in the DID.	100%
Most portions of this section of the draft document demonstrate that the Bidder fully understands the requirements and the final version will need minimal additional clarifications or revisions in this section; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which address at least 80% of the required elements listed in the DID.	85%
Most portions of this section of the draft document demonstrate that the Bidder fully understands the requirements and the final version will need little additional clarifications or revisions in this section; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which address at least 60% of the required elements listed in the DID.	75%
This section of the draft document demonstrates that the Bidder generally understands the requirements but close to half of the section will need clarifications and/or revisions for the document to be finalized; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which address 40-60% of the required elements listed in the DID.	50%
More than half of this section of the draft document does not clearly demonstrate that the Bidder understands the requirements and final	0%

<b>Table 5.2 – Scoring Guide for Draft Plan</b>	
<b>Assessment of Section of Document</b>	<b>mark to Allocate</b>
version will need major clarification and/or revision in this section; demonstrated by a thorough, complete, and well presented document with clear details including well established and proven sound approaches which address less than 40% of the required elements listed in the DID.	

4.3 Corporate Experience and Capability Evaluation

4.3.1 Not used.

4.3.2 The individual sections and corresponding available marks of the Corporate Experience and Capability are identified in Table 5.3. The scores will then be calculated in accordance with Part 4, Attachment 5, Section 4, Table 12.

<b>Table 5.3 – Scoring Guide for Bidders Experience</b>			
<b>Criteria</b>	<b>Assessment</b>	<b>mark available</b>	<b>mark Awarded</b>
<b>Corporate ISS Experience</b>	The Bidder provided details and client references for a minimum of three projects, within the last 10 years that demonstrate completion of all seven ISS elements indicated in the ISS Management and Technical Proposal (Part 3, Attachment 3, Section 3, para 4.1.1).	100%	
	The Bidder provided details and client references for a minimum of two projects, within the last 10 years that demonstrates completion of all seven ISS elements, indicated the ISS Management and Technical Proposal.	80%	
	The Bidder provided details and client references for a minimum of one project, within the last 10 years that demonstrates completion of all seven ISS elements, indicated the ISS Management and Technical Proposal.	60%	
	The Bidder provided details and client references for a minimum of one project, within the last 10 years that demonstrates completion of at least five out of seven ISS elements, indicated the ISS Management and Technical Proposal.	40%	



<b>Table 5.3 – Scoring Guide for Bidders Experience</b>			
<b>Criteria</b>	<b>Assessment</b>	<b>mark available</b>	<b>mark Awarded</b>
	The Bidder provided details and client references for a minimum of one project, within the last 10 years that demonstrates completion of less than five ISS elements, indicated the ISS Management and Technical Proposal.	20%	
	The Bidder didn't demonstrate Corporate ISS experience.	0%	
<b>Experience with Performance Based Contracting</b>	The Bidder demonstrated experience in PBC (items 1-4 from ISS Management and Technical proposal, Part 3, Attachment 3, Section 3, Paragraph 4.2.1) for two or more contracts within last 10 years.	100%	
	The Bidder demonstrated experience in PBC (items 1-4 from ISS Management and Technical proposal Part 3, Attachment 3, Section 3, Paragraph 4.2.1) for one contract within last 10 years.	75%	
	The Bidder demonstrated limited direct experience with PBC.	35%	
	The Bidder didn't demonstrate experience with PBC.	0%	
<b>Experience with R&amp;O of Defence Systems</b>	The Bidder demonstrated experience in R&O of Defence Systems (as per Paragraph 4.3.1 from ISS Management and Technical proposal, Part 3, Attachment 3, Section 3) for three or more contracts within last 15 years.	100%	
	The Bidder demonstrated experience in R&O of Defence Systems (as per Paragraph 4.3.1 from ISS Management and Technical proposal, Part 3, Attachment 3, Section 3) for two contracts within last 15 years.	80%	

<b>Table 5.3 – Scoring Guide for Bidders Experience</b>			
<b>Criteria</b>	<b>Assessment</b>	<b>mark available</b>	<b>mark Awarded</b>
	The Bidder demonstrated experience in R&O of Defence Systems (as per Paragraph 4.3.1 from ISS Management and Technical proposal, Part 3, Attachment 3, Section 3) for one contract within last 15 years.	70%	
	The Bidder demonstrated limited direct experience with R&O of Defence Systems (as per Paragraph 4.3.1 from ISS Management and Technical proposal, Part 3, Attachment 3, Section 3).	30%	
	The Bidder didn't demonstrate R&O requirements of defence systems experience (as per Paragraph 4.3.1 from ISS Management and Technical proposal, Part 3, Attachment 3, Section 3).	0%	
<b>Average Mark</b>			
<b>Minimum Pass Mark</b>		70%	

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06MSMP/L

Part 4 – Bid Preparation Instructions and Evaluation Plan

Attachment 5 – Technical Proposal Evaluation Plan

Section 3 – ISS Proposal Preparation Instructions

Schedule 5-5 - Comparative LCC Calculation and Rating Details

## 1 GENERAL

- 1.1 A Monte-Carlo Simulation will be used to perform a risk analysis of the vehicle reliability and in-service input parameters provided by the Bidders. The input data to be provided is described in Part 3, Attachment 3, Section 3, Schedule 3-2. To account for any uncertainty in Bidder Data, select data elements will be fitted with appropriate probability distributions. A Monte-Carlo simulation algorithm will be used to determine the in-service cost distribution. A calculated risk-corrected mean figure of merit will be used to evaluate the Bidder. The risk-corrected mean is a function of a probability distribution's mean and variance. This appendix outlines the mathematical details of the probability distribution fitting, simulation model, and risk-corrected mean calculation.
- 1.2 All costs are to be submitted in original (preferred) currency. Evaluation will be done in Canadian Dollars (\$). The exchange rate will be Bank of Canada nominal noon exchange rate, at the day of RFP release. Fuel costs will be set at the date of RFP release and a labour rate of \$68.00/ hr. will be assumed for evaluation purposes.
- 1.3 The mathematical expressions outlined below are in general terms. During evaluation the in-service cost for each variant (Cargo, LHS) and APS will be calculated separately (per Monte-Carlo simulation iteration) and summed.

## 2 CALCULATIONS

- 2.1 The total in-service cost,  $C_{IS}$ , will be the sum of the Fuel Cost, Preventive Maintenance Cost, Corrective Maintenance Cost, and initial provisioning of spares cost.

$$C_{IS} = C_{Fuel} + C_{PM} + C_{CM} + C_{IP} \quad (1)$$

- 2.2 Fuel Cost: The total fuel cost,  $C_{FUEL}$ , will be computed over the 20-year service life of the equipment based on simulations using the fuel consumption data obtained from the Mission Profile Test (LHS variant with APS at 8,000kg payload with trailer at 8,000kg payload configuration) described in Part 4, Attachment 5, Schedule 5-2: Test Matrix and historical monthly usage of comparable DND vehicles and fitted to a log normal probability distribution with the most-likely cumulative value equal to 5000 km per year. A discount factor of 4 percent per year can be used (based on the rate of return of the Bank of Canada 30 year bond).

$$C_{FUEL} = \sum_{i=1}^M \sum_{k=1}^V C_F \cdot I_{Fi} \cdot \delta_i \cdot d_{i,k} \cdot f \quad (2)$$

$M$	total number of months fleet in service
$V$	total number of vehicles
$C_F$	cost per litre for fuel
$I_{Fi} = 5.8$	yearly inflation factor for fuel (compounded annually)
$\delta_i$	discount factor for month $i$
$d_{i,k}$	distance traveled by truck $k$ in month $i$
$f$	fuel consumption from DND fuel testing

- 2.3 Preventive Maintenance Cost: The PM cost,  $C_{PM}$ , is calculated per month, per truck based on simulation results. The stochastic variables are the distance traveled,  $d_{i,k}$ , of truck  $k$  in month  $i$ .

$$C_{PM} = \sum_{i=1}^M \sum_{t=1}^T \sum_{k=1}^V C_{i,t} \cdot P_{i,t,k} \quad (3)$$

$$C_{i,t} = \delta_i \cdot (l_{Pi} \cdot C_{P,t} + l_{Li} \cdot C_L \cdot t_{P,t}) \quad (4)$$

$$P_{i,t,k} = \begin{cases} 0 & i - m_{ik} < \theta_{T,t} \quad \text{and} \quad D_{ik} - D_{mtk,k} < \theta_{M,t} \\ 1 & \text{otherwise} \end{cases} \quad (5)$$

$$D_{i,k} = D_{i-1,k} + d_{i,k} \quad (6)$$

$M$	total number of months fleet in service
$V$	total number of vehicles
$T$	number of tasks
$C_{i,t}$	cost of performing task $t$ in month $i$
$P_{i,t,k}$	number of times task $t$ is performed in month $i$ on truck $k$
$l_{Pi} = 1.9$	yearly inflation factor for parts (compounded annually)
$l_{Li} = 2.0$	yearly inflation factor for labour (compounded annually)
$C_{P,t}$	cost of parts to perform task $t$
$t_{P,t}$	labour hours required to perform task $t$
$C_L$	cost of labour
$d_{i,k}$	distance traveled by truck $k$ in month $i$
$D_{i,k}$	cumulative distance traveled by truck $k$ by end of month $i$
$m_{jk}$	last month in which truck $k$ had task $t$ performed
	$m_{jk}$ initialized to first month that truck $k$ enters service
	$m_{jk}$ set to $\infty$ when truck $k$ leaves service / is retired.
$\theta_{T,t}$	frequency of task $t$ (months)
$\theta_{M,t}$	frequency of task $t$ (mileage)

- 2.4 Corrective Maintenance Cost:

- 2.4.1 The failure rate (inverse of MKBF) for each MSI  $j$  will be fitted with a *Gamma* distribution. Let  $\#f_j$  be the number of failures observed,  $m_j$  the number of kms observed, then the failure rate of MSI  $j$  will be computed as  $\lambda_j = \text{Gamma}\left(\#f_j + 1, \frac{\gamma_j}{m_j}\right)$  where  $\gamma_j$  is a failure-rate scale factor determined by the level testing or field observation:

$$\gamma_j = \begin{cases} 1 & \text{Actual (A) or Predicted (P) usage} \\ \text{PERT}(1,5,10) & \text{Lab (L) testing.} \end{cases}$$

If the MKBF of component  $j$  is predicted (P) then  $\lambda_j = \text{Gamma } 1, \text{MKBF}_j$ .

- 2.4.2 The Discard Fraction ( $1 - \beta_j$ ), of each MSI will be determined by a *Beta* distribution depending on the number of observed repairs,  $\#rep, j$ , and discards  $\#dis, j$  that justify the Bidder's input RF  $p_j$ :

$$\beta_j = 1 - \begin{cases} Beta(\#_{rep,j} + 1, \#_{dis,j} + 1) & \#_{rep,j}, \#_{dis,j} \text{ data provided} \\ Beta(p_j + 1, 1 - p_j + 1) & p_j \text{ provided without justification} \\ Beta(1, 1) & \text{no } p_j \text{ value provided} \end{cases}$$

2.4.3 Replacement labour hours, repair parts cost, and repair labour hours for each MSI will be fitted with a lognormal distribution which is characterized by the 50<sup>th</sup> and 95<sup>th</sup> percentile.

2.4.4 Truck/component warranties are taken into account in equation (8).

2.4.5 Corrective Maintenance,  $C_{CM}$ , Calculation:

$$C_{CM} = \sum_{j=1}^{MSI} \sum_{i=1}^M F_{i,j} \cdot C_{i,j} \quad (7)$$

$$F_{i,j} = \sum_{k=1}^V \begin{cases} 0 & \text{if } i < w_j \text{ and } D_{ik} < \bar{w}_j \\ Poisson \lambda_j \cdot d_{i,k} & \text{otherwise} \end{cases} \quad (8)$$

$$\lambda_j = Gamma\left(\# f_j + 1, \frac{\gamma_j}{m_j}\right) \quad (9)$$

$$\gamma_j = \begin{cases} 1 & \text{Actual (A) usage or Predicted (P)} \\ PERT(1, 5, 10) & \text{Lab (L) testing} \end{cases} \quad (10)$$

$$C_{i,j} = \delta_i \cdot \left[ \beta_i \cdot l_{P,i} \cdot C_{R,j} + l_{L,i} \cdot C_L \cdot t_{R,j} + (1 - \beta_i) \cdot l_{P,i} \cdot C_{D,j} + l_{L,i} \cdot C_L \cdot t_{D,j} \right] \quad (11)$$

$$\beta_j = 1 - \begin{cases} Beta(\#_{rep,j} + 1, \#_{dis,j} + 1) & \#_{rep,j}, \#_{dis,j} \text{ data provided} \\ Beta(p_j + 1, 1 - p_j + 1) & p_j \text{ provided without justification} \\ Beta(1, 1) & \text{no value } p_j \text{ provided} \end{cases} \quad (12)$$

$$C_{R,j} = LOGNORMAL(c_{like}^{R,j}, c_{max}^{R,j}) \quad (13)$$

$$t_{D,j} = LOGNORMAL(t_{like}^{D,j}, t_{max}^{D,j}) \quad (14)$$

$$t_{R,j} = LOGNORMAL(t_{like}^{R,j}, t_{max}^{R,j}) \quad (15)$$

$M$	total number of months fleet in service
$V$	total number of vehicles
$F_{i,j}$	number of failures of component $j$ in month $i$
$C_{i,j}$	cost per failure of component $j$ in month $i$
$w_j$	warranty length (months) on component $j$

$\bar{w}_j$	warranty length (km) on component $j$
$\lambda_j$	failure rate of component $j$
$d_{i,k}$	distance traveled by truck $k$ in month $i$
$\# f_j$	number of failures observed of component $j$
$m_j$	number of km tested
$\gamma_j$	failure rate scale factor
$\delta_i$	discount factor for month $i$
$l_{Pi} = 1.9$	yearly inflation factor for parts
$l_{Li} = 2.0$	yearly inflation factor for labour
$CR, j$	cost of parts to repair component $j$
$CL$	cost of labour
$t_{R, j}$	labour time required to repair component $j$
$CD, j$	cost of discarding and replacing component $j$
$t_{D, j}$	labour time required to discard and replace component $j$
$\beta_j$	computed repair fraction
$p_j$	provided repair fraction (with no justification)
$\#_{rep, j}$	number of repaired components from data provided
$\#_{dis, j}$	number of discarded components from data provided

- 2.5 Initial Provisioning (IP) of Spares cost: The IP cost,  $C_{IP}$ , is calculated with OmegaPS Analyzer using bidder data.
- 2.5.1 The input variables are the bidder-specified item failure rates, most likely replacement times, most likely repair times, and repair fractions.
- 2.5.2 The fixed input variables are the unit replacement cost,  $CD, j$ , of item  $j$  and quantity of item  $j$  in parent.
- 2.5.3 The minimum cost of spare MSIs required to achieve an overall fleet operational availability requirement of at least 95% is determined by a one-time run of the Sparring Analysis module of OmegaPS Analyzer.
- 2.5.4 The procurement lead time for new parts from the Contractor is set at 180 days. The Contractor Turn Around Time for repairs is set at 60 days.

### 3 EVALUATION

- 3.1 Let  $x_{ij}$  denote the simulated  $C_{IS}$  figure of merit generated at iteration  $j$  for Bidder  $i$ .  $N$  is the total number of simulation iterations. The expected value (i.e., the mean) of the  $C_{IS}$  figure of merit for Bidder  $i$  is then given by

$$\mu_i = \frac{1}{N} \sum_{j=1}^N x_{ij} . \quad (16)$$

- 3.2 An unbiased estimation of the standard deviation of  $C_{IS}$  for Bidder  $i$  is then given by
- (17)

$$\delta_i = \sqrt{\frac{1}{N-1.5} \sum_{j=1}^N (x_{ij} - \mu_i)^2}$$

3.3 The “risk-corrected” mean  $C_{IS}$  figure of merit  $\hat{\mu}_i$  for each Bidder is computed using the formula:

$$\hat{\mu}_i = \mu_i + \frac{\sigma_i^2}{2R} \quad (18)$$

where  $R = \$5,000,000$  and denotes the risk tolerance DND has for the in-service portion of the project.

3.4 We denote the smallest such risk-corrected mean as  $\hat{\mu}_{\min}$  :

$$\hat{\mu}_{\min} = \min_i \hat{\mu}_i. \quad (19)$$

3.5 Each Bidder will receive a score that is a ratio of  $\hat{\mu}_i$  and the minimum cost  $\hat{\mu}_{\min}$  ; Specifically  $S_i$  given by:

$$S_i = \frac{\hat{\mu}_{\min}}{\hat{\mu}_i} \quad (20)$$

The Bidder with the lowest risk-corrected figure of merit ( $\hat{\mu}_i = \hat{\mu}_{\min}$ ) scores 1.

3.6 The Bidder’s LCC points will be calculated by multiplying  $S_i$  by the number of points available per Part 4, Attachment 5, Section 4.

## 4 SUMMARY OF INPUT VARIABLES / PARAMETERS

4.1 DND Provided (Deterministic)

20	number of in-service years per vehicle
$M$	total number of months fleet in service
$V=595$	number of MSVS CARGO vehicles (per scenario 1)
$V=705$	number of MSVS LHS vehicles (per scenario 1)
$V=150$	number of MSVS APS (per scenario 1)
$l_{Pi}$	yearly inflation factor for parts
$l_{Li}$	yearly inflation factor for labour
$l_{Fi}$	yearly inflation factor for fuel
$\delta_i$	discount factor for month $i$
$CL$	cost of labour (assumed OEM labour rate 68\$ CAN)
$MSI=20$	number of components selected for CM cost analysis for MSVS CARGO variant



$MSI=24$  number of components selected for CM cost analysis for MSVS LHS variant  
 $MSI = 2$  number of components selected for CM cost analysis for MSVS APS  
95% overall MSVS SMP availability requirement  
60 number of days for part turnaround from Contractor

#### 4.2 DND Provided (Stochastic)

$d_{i,k}$  distance traveled by truck  $k$  in month  $i$ :  
 $d_{i,k}$  is selected from a distribution derived from historical CF usage rates for comparable fleets.  
 $\mu, \sigma$  lognormal distribution parameters to be used for MSVS SMP distance/month are:  
 $\mu = 5.3$ ; and  
 $\sigma = 1.2$   
The mean of this distribution is 411.6 and the standard deviation is 738.6.  
 $C_F$  cost per litre for fuel  
 $\gamma_j$  failure rate scale factor for each MSI component  $j$

#### 4.3 Measured

$f$  fuel consumption (litres/km)

#### 4.4 Bidder Provided (Deterministic)

$T$  number of preventive maintenance tasks selected for PM cost analysis  
 $\theta_{T,t}$  frequency of PM task  $t$  (months)  
 $\theta_{M,t}$  frequency of PM task  $t$  (mileage)  
 $CP,t$  cost of parts to perform PM task  $t$   
 $tp,t$  labour hours required to perform PM task  $t$   
 $w_j$  warranty length (months) on component  $j$   
 $\bar{w}_j$  warranty length (km) on component  $j$   
 $CD,j$  cost of discarding and replacing component  $j$   
MKBF: #  $f_j$  number of failures observed of component  $j$   
 $m_j$  total test mileage  
 $p_j$  provided repair fraction (with no justification)  
#  $rep,j$  number of repaired components from OEM maintenance data provided  
#  $dis,j$  number of discarded components from OEM maintenance data provided

#### 4.5 Bidder Provided (Stochastic)

$c_{like}^{R,j}$  most likely cost of parts to repair component  $j$   
 $c_{max}^{R,j}$  maximum cost of parts to repair component  $j$   
 $CR,j$  cost of parts to repair component  $j$ :  
 $CR,j$  sampled from  $LOGNORMAL(c_{like}^{R,j}, c_{max}^{R,j})$  distribution  
 $t_{like}^{R,j}$  most likely number of labour hours required to repair component  $j$

- $t_{\max}^{R,j}$  maximum number of labour hours required to repair component  $j$   
 $t_{R,j}$  number of labour hours required to repair component  $j$   
 $t_{R,j}$  sampled from  $LOGNORMAL(t_{\text{like}}^{R,j}, t_{\max}^{R,j})$  distribution  
 $t_{\text{like}}^{D,j}$  most likely number of labour hours required to discard and replace component  $j$   
 $t_{\max}^{D,j}$  maximum number of labour hours required to discard and replace component  $j$   
 $t_{D,j}$  number of labour hours required to discard and replace component  $j$   
 $t_{D,j}$  sampled from  $LOGNORMAL(t_{\text{like}}^{D,j}, t_{\max}^{D,j})$  distribution

## 5 PROBABILITY DENSITY FUNCTIONS

### 5.1 Beta Distribution: $Beta(\alpha, \beta)$

$$f(x; \alpha, \beta) = \frac{x^{\alpha-1} \cdot (1-x)^{\beta-1}}{\int_0^1 u^{\alpha-1} \cdot (1-u)^{\beta-1} du} \quad (3)$$

### 5.2 Gamma Distribution: $Gamma(\alpha, \beta)$

$$f(x; \alpha, \beta) = \frac{e^{-\frac{x}{\beta}} x^{\alpha-1} \cdot \beta^{-\alpha}}{\int_0^{\infty} u^{\alpha-1} e^{-u} du} \quad (4)$$

### 5.3 Normal Distribution : $Norm(\mu, \sigma^2)$

$$f(x; \mu, \sigma^2) = \frac{1}{\sqrt{2\pi\sigma^2}} \exp\left(-\frac{(x-\mu)^2}{2\sigma^2}\right) \quad (23)$$

### 5.4 Poisson Distribution: $Poisson(\lambda)$

$$f(x; \lambda) = \frac{e^{-\lambda} \lambda^x}{x!} \quad (24)$$

### 5.5 PERT Distribution: $PERT(a, b, c)$

$$f(x; a, b, c) = Beta(\alpha_1, \alpha_2) \cdot (c - a) + a \quad (25)$$

$$\alpha_1 = \frac{(\mu - a) \cdot (2b - a - c)}{(b - \mu) \cdot (c - a)} \quad (26)$$

$$\alpha_2 = \frac{\alpha_1 \cdot (c - \mu)}{(\mu - a)} \quad (27)$$

$$\mu = \frac{a + 4 \cdot b + c}{6} \quad (28)$$

Medium Support Vehicle System  
Standard Military Pattern  
Evaluation Procedures and Basis of Selection  
Technical Evaluation Plan  
Acquisition Proposal Evaluation Plan  
LCC Calculations

Schedule 5-5  
Section 3 to  
Attachment 5 to  
Part 4 to  
Request For Proposal W8476-06MSMP/L

5.6 Lognormal Distribution :  $LOGNORMAL(\mu, \sigma)$

$$f(x; \mu, \sigma) = \frac{1}{x\sigma\sqrt{2\pi}} \cdot e^{-\frac{(\ln(x)-\mu)^2}{2\sigma^2}}$$

## 6 ACRONYMS

CF	Canadian Forces
CM	Corrective Maintenance
DND	Department of National Defence
km	Kilometers
LCC	Life Cycle Costs
MKBF	Mean Kilometers Between Failures
MSI	Maintenance Significance Items
PM	Preventive Maintenance
RF	Repair Factor

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)

W8476-06MSMP/L

Part 4 EVALUATION PROCEDURES AND BASIS OF SELECTION

ATTACHMENT 5 – TECHNICAL PROPOSAL EVALUATION PLAN

SECTION 4 – MANDATORY CRITERIA AND TECHNICAL SCORE

## 1.0 Introduction

This section summarizes the Technical Mandatory and Rated Criteria found throughout the RFP. Although the criteria are summarized in this section, it is essential that they be read in conjunction with the RFP reference identified in each table for more detailed information on the requirement.

## 2.0 Technical Mandatory Criteria

The following Table 1 summarizes the Technical Mandatory Criteria that require additional information as identified in Part 7, Annex B and Part 3, Attachment 3, Section 3. The other Technical Mandatory Criteria require a Statement of Compliance (SOC) as per Part 3, Attachment 3, Section 2, paragraph 2.2.1.

The column definitions for Table 1 are as follows:

- Column (A)     **Object ID / RFP Ref** - The document number where a full description of the requirements can be viewed in the RFP. For example BA-527, the full description is located in Appendix BA, ID number 527.
- Column (B)     **Object Name** - Basic description of the requirement.
- Column (C)     **Evaluation Method** – The method used to evaluate the bid. For an Evaluation Method identified as Proof of Compliance (POC), the bidder shall provide sufficient proof as per Part 3, Attachment 3, Section 2, Paragraph 2.2.2 and further identified in Part 7, Annex B and its corresponding Appendices and Attachments. Where an Evaluation Method is identified as a Technical Compliancy Program (TCP), Canada will test the requirement IAW Part 3, Attachment 3, Section 2, Paragraph 5.0. In some circumstances, a combination of TCP and POC Evaluation Methods will be used and the bidder must meet the criteria for both methods in order to fully meet the specific mandatory criteria.

**Table 1 – Technical Mandatory Criteria**

<b>Mandatory Criteria</b>		
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Evaluation Method</b>
BA-98	Vehicle Design	POC
BA-102	Country of Origin	POC
BA-505	Base Chassis	POC
BA-506	Base Chassis Validation	POC
BA-637	NATO Military Service	POC
BA-103	Mandatory Payload	POC
BA-681	Payload Centre of Gravity	POC
BA-396	Towed Equipment	POC
BA-107	Improved Medium Mobility Load Carrier	POC
BA-621	Vehicle Height	POC
BA-622	Vehicle Width	POC
BA-623	Vehicle Length	POC
BA-624	Trailer Length	POC
BA-625	Steering Axle Capacity	POC
BA-449	Rail Transport	POC
BA-549	Vehicle Mission Reliability	POC
BA-564	Mean Kilometres Between Mission Failures (MKBMF)	POC and TCP
BA-128	Single Fuel Concept	POC
BA-129	Cold Starting	POC
BA-137	Transmission	POC
BA-148	Spare Wheel Carrier Assembly	POC
BA-161	Cab Seating	POC
BA-454	Air Conditioning	POC
BA-184	Heater/Defroster/Ventilation System	POC
BA-399	Windshield Defrosting and Defogging	POC
BA-444	Corrosion Prevention	POC
BA-6-7	APS - Kinetic Energy (KE)	POC
BA-6-8	APS - Mine Blast	POC
BA-6-67	APS - Mine Blast	POC
BA-6-24	APS Windshield Defrosting and Defogging	POC
BA-7-27	Cargo Bed Access (Rear)	POC
BA-7-130	Cargo Bed Access (Rear) - Simultaneous Ingress and Egress	POC
BA-7-134	Cargo Bed Access (Rear) - 5th Percentile Female	POC
BA-7-131	Cargo Bed Access (Rear) - First Step	POC
BA-7-175	Cargo Bed Access (Rear) - Hand Holds	POC
BA-9-181	Crane Traverse Range	POC

Mandatory Criteria		
(A) Object ID / RFP Ref	(B) Object Name	(C) Evaluation Method
BA-9-216	Crane Performance	POC
BA-9-286	Crane Performance	POC
BA-9-253	Crane Performance	POC
BA-9-254	Crane Performance	POC
BA-9-215	Crane Performance	POC
BA-9-265	Crane Performance	POC
BA-10-4	Winch Design	POC
BA-10-15	Winch Line Pull	POC
BA-11-2	LHS Tandem Axle Trailer	POC
BA-11-15	LHS Trailer Mandatory Payload	POC
BA-11-206	LHS Trailer Centre of Gravity	POC
BA-11-149	LHS Trailer Tongue Weight Load	POC
BA-11-95	LHS Trailer Dimensions	POC
BA-11-135	LHS Trailer Rail Transport	POC
BA-11-106	LHS Trailer Tires	POC
BA-11-103	LHS Trailer Speed Capability	TCP
BA-11-104	LHS Trailer Gradeability	TCP
BA-11-201	LHS Trailer Side Slope Operation	TCP
BA-118	Speed	TCP
BA-122	Speed on Grade	TCP
BA-124	Cargo Variant Gradeability	TCP
BA-597	Cargo with Crane Variant, LHS Variant, MRT Variant, and Gun Tractor Variant Gradeability	TCP
BA-369	Gross Combination Weight Gradeability	TCP
BA-371	LHS Variant Side Slope Operation	TCP
BA-125	Cargo Variant, Cargo with Crane Variant, MRT Variant, and Gun Tractor Variant Side Slope Operation	TCP
DID-SMP-PM-001	Project Management Plan (including DID SMP-PM-003 Master Project Schedule)	All 5 Plans submitted AND Overall Average Score is no less than 60%
DID-SMP-SE-001	Systems Engineering Management Plan	
DID-SMP-IL-001	Integrated Logistic Support Plan	
DID-SMP-SE-003	Quality Assurance Plan	
DID-SMP-SE-011	Integrated Testing and Support Plan	Plan submitted AND Overall Average Score is no less than 70%
DID SMP-ISS-001	In Service Support Plan	
DID SMP-IL-024	Environmental Health and Safety Impact Report	
DID SMP-IL-025	Contractor Capability and Facility Survey	
Part 3, Att 3, S3, Article 4	Corporate ISS Experience	All 3 Experience Documents submitted AND Overall Average Score is no less than 70%
Part 3, Att 3, S3, Article 4	Experience with Performance Based Contracting	
Part 3, Att 3, S3, Article 4	Experience of R&O Defence Systems	LCC Data Submitted
Part 3, Att 3, S3, Article 2	LCC Data Tables	

### 3.0 Technical Score Determination

The following tables summarize how the Bidders Total Technical Proposal Score will be determined IAW the Technical Scoring Methodology as described in Part 4.

#### **NOTES**

NOTE 1 - Table 2 shows the overall SMP evaluation weight in points.

NOTE 2 - Table 3 thru Table 12 shows the rated items for each category.

NOTE 3 - Calculated points (ie Bidder's score for each individual rated item x Object Points available for that item) will be rounded to four decimal places.

NOTE 4 - These are the Column Definitions for Tables 3 through 12:

Column (A)	<b>Object ID / RFP Ref</b> - The document number where a full description of the requirements can be viewed in the RFP. For example BA-527, the full description is located in Appendix BA, ID number 527.
Column (B)	<b>Object Name</b> - Basic description of the rated requirement.
Column (C)	<b>Ordinal Ranking</b> - The item rank within the category.
Column (D)	<b>Evaluation Method</b> – The method used to evaluate the bid. For an Evaluation Method identified as Proof of Compliance (POC), the bidder shall provide sufficient proof as per Part 3, Attachment 3, Section 2, Paragraph 2.2.2 and further identified in Part 7, Appendix BA and its corresponding Attachments and also, for Table 12a, as per Part 3, Attachment 3, Section 2, Paragraph 4.2.2. Where an Evaluation Method is identified as a Technical Compliancy Program (TCP), Canada will test the requirement IAW Part 3, Attachment 3, Section 2, Paragraph 5.0. In some circumstances, a combination of Evaluation Methods may be used.
Column (E)	<b>Object Points</b> - The value of that criteria relative to the overall Technical Score of 70 points.



**Table 2 – SMP Evaluation Points Breakdown**

Technical and Logistic Support - 70 points										
Vehicle Equipment Items						Human Factors, Environmental and Logistics Support				
Mobility	Survivability	Performance	Payload	Standard Design	Vehicle Systems and Ancillaries	Human Factors	Environmental	Plans and Report	ILS	ISS
11.3750	11.3750	6.8250	6.8250	4.5500	4.5500	2.1000	3.5000	2.1000	1.0502	15.7498

**Table 3 – Mobility Rated Items**

<b>Mobility</b>				
<b>Total Points (Category)</b>				<b>11.3750</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points ( / 70 )</b>
BA-644	Soft Soil Mobility – Drawbar Pull	1a	TCP	2.1067
BA-668	Soft Soil Mobility Sand Gradeability	1b	TCP	2.1067
BA-646	Double Lane Change	2	TCP	2.5884
BA-645	Ride Quality RMS	3a	TCP	0.8879
BA-670	Ride Quality Half Rounds	3b	TCP	0.8879
BA-438	Turning Circle without Trailer	4a	POC	0.6171
BA-682	Turning Circle with Trailer	4b	POC	0.6171
BA-285	Driveline Locks	5	POC	0.8280
BA-528	Ground Pressure MMP	6	POC	0.5030
BA-441	Traction Control	7	POC	0.2322
<b>Sum</b>				<b>11.3750</b>

**Table 4 – Survivability Rated Items**

<b>Survivability</b>				
<b>Total Points (Category)</b>				<b>11.3750</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points  ( / 70 )</b>
BA-6-68	Blast Under Belly	1	POC	3.4125
BA-6-74	IED Blast	2	POC	2.275
BA-6-13	Blast Under Wheel	3	POC	1.7063
BA-6-73	IED Fragmentation Lab	4a	POC	1.7063
BA-6-73	IED Fragmentation Field	4b	POC	1.7063
BA-6-12	Ballistic	5	POC	0.5686
<b>Sum</b>				<b>11.3750</b>

**Table 5 – Performance Rated Items**

<b>Performance</b>				
<b>Total Points (Category)</b>				<b>6.8250</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points ( / 70 )</b>
BA-516	Vehicle Stopping Distance	1	TCP	1.6696
BA-543	Gradeability - Low Speed	2	TCP and POC	1.1446
BA-514	Acceleration Time	3	TCP	0.8821
BA-542	Gradeability - High Speed	4	TCP	0.7071
BA-120	Maximum Speed	5	TCP	0.5758
BA-531	Static Rollover Threshold	6	TCP	0.4708
BA-437	Ground Clearance	7	POC	0.3833
BA-234	Fording Depth	8	POC	0.3084
BA-524	Ramp Breakover Angle	9	POC	0.2427
BA-384	Angle of Approach	10	POC	0.1843
BA-393	Angle of Departure	11	POC	0.1319
BA-11-142	Trailer Fording Depth	12	POC	0.0842
BA-11-139	Trailer Ground Clearance	13	POC	0.0402
<b>Sum</b>				<b>6.8250</b>

**Table 6 – Payload Rated Items**

<b>Payload</b>				
<b>Total Points (Category)</b>				<b>6.8250</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points ( / 70 )</b>
BA-486	Vehicle Payload	1	TCP and POC	5.1188
BA-11-53	Trailer Payload	2	TCP and POC	1.7062
<b>Sum</b>				<b>6.8250</b>

**Table 7 – Standard Design Rated Items**

<b>Standard Design</b>				
<b>Total Points (Category)</b>				<b>4.5500</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points ( / 70 )</b>
BA-499	Cab (3rd Seating Position)	1	POC	1.0567
BA-555	Reliability	2	POC	0.7318
BA-6-44	APS Installation	3	SOC	0.5693
BA-11-56	Wheels and Tires	4	POC	0.4609
BA-556	Vehicle Daily Operator Inspection	5	POC	0.3797
BA-11-148	Wheels and Tires	6	POC	0.3147
BA-264	Driver's Seat	7	POC	0.2605
BA-268	Steering Column	8	POC	0.2141
BA-634	F-34 Fuel Compatibility	9	POC	0.1734
BA-319	Instrument Gauges	10	POC	0.1374
BA-409	Warning Lights and Indicators	11	POC	0.1048
BA-406	Exterior Heated Mirrors	12	POC	0.0753
BA-386	Lubricants and Fluids Compatibility	13	POC	0.0483
BA-267	Fully Opening Windows	14	POC	0.0231
<b>Sum</b>				<b>4.5500</b>

**Table 8 – Vehicle Systems & Ancillaries Rated Items**

<b>Vehicle Systems and Ancillaries</b>				
<b>Total Points (Category)</b>				<b>4.5500</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points ( / 70 )</b>
BA-249	Air Actuated Service Brakes and Spring Actuated Parking Brakes	1	POC	1.1131
BA-9-5	Crane Lifting Capacity (3.5 m Reach)	2	POC	0.763
BA-9-214	Crane Lifting Capacity (6 m Reach)	3	POC	0.588
BA-10-37	Winch with Synthetic Fibre Rope	4	POC	0.4714
BA-10-45	Winch Front and Rear Deployability	5	POC	0.3839
BA-8-23	LHS Manual Operation (Failure)	6	POC	0.3139
BA-257	CTIS Runflat Mode	7	POC	0.2555
BA-9-264	Crane Traverse Range	8	POC	0.2056
BA-282	Solar Powered Battery System	9	POC	0.1618
BA-10-73	Angles of Approach and Departure with Winch	10	POC	0.1229
BA-7-92	Sideboards, Tailgate and Related Components Stowage	11	POC	0.0879
BA-7-45	Tarp and Superstructure Stowage	12	POC	0.0561
BA-9-280	Sideboard Stowage	13	POC	0.0269
<b>Sum</b>				<b>4.5500</b>

**Table 9 – Human Factors Rated Items**

<b>Human Factors</b>				
<b>Total Points (Category)</b>				<b>2.1000</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points ( / 70 )</b>
Part 4, Attachment 5, Section 2, Schedule 5-3	Human Factors	1	TCP	2.1000
<b>Sum</b>				<b>2.1000</b>



**Table 10 – Environmental Rated Items**

<b>Environmental</b>				
<b>Total Points (Category)</b>				<b>3.5000</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points ( / 70 )</b>
BA-526	Particulate Matter	1a	POC	1.0694
BA-636	Nitrogen Oxide Emissions	1b	POC	1.0694
DID SMP-IL-024	EHSIR	2	POC	0.9722
DID SMP-IL-025	CCFS	3	POC	0.3890
<b>Sum</b>				<b>3.5000</b>

**Table 11 – Plans and Reports Rated Items**

<b>Plans and Reports</b>				
<b>Total Points (Category)</b>				<b>2.1000</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points ( / 70 )</b>
DID-SMP-PM-001 and DID-SMP-PM-003	Project Management Plan	1	POC	0.9590
DID-SMP-SE-001	SEM Plan	2	POC	0.5390
DID-SMP-IL-001	Integrated Logistics Support Plan	3	POC	0.3290
DID-SMP-SE-003	QA Plan	4	POC	0.1890
DID-SMP-SE-011	Integrated Testing and Support Plan	5	POC	0.0840
<b>Sum</b>				<b>2.1000</b>

**Table 12 – ILS/ISS Rated Items**

<b>ILS/ISS</b>				
<b>Total Points (For Both Category)</b>				<b>16.8000</b>
<b>(A)</b> <b>Object ID /</b> <b>RFP Ref</b>	<b>(B)</b> <b>Object Name</b>	<b>(C)</b> <b>Ordinal</b> <b>Ranking</b>	<b>(D)</b> <b>Evaluation Method</b>	<b>(E)</b> <b>Object</b> <b>Points</b> <b>( / 70 )</b>
<b>ISS</b>				
Part 3, Attachment 3, Section 3	LCC	1	POC	8.7499
Part 3, Attachment 3, Section 3	Corporate ISS Experience	2a	POC	2.7805
Part 3, Attachment 3, Section 3	Experience with Performance Based Contract	2b	POC	1.2639
Part 3, Attachment 3, Section 3	Experience of R&O Defence Systems	2c	POC	0.5056
DID SMP-ISS-001	ISS Plan	3	POC	2.4499
<b>ISS Sum</b>				<b>15.7498</b>
<b>ILS</b>				
Part 7, Appendix BC (See Table 12a Below)	IETM	4	(See Table 12a Below)	1.0502
<b>ILS Sum</b>				<b>1.0502</b>

**Table 12a – IETM**

NOTE: This table is used to score the last item in Table 12 (IETM).

<b>IETM</b>				
<b>Total Points (Category)</b>				<b>1.0502</b>
<b>(A) Object ID / RFP Ref</b>	<b>(B) Object Name</b>	<b>(C) Ordinal Ranking</b>	<b>(D) Evaluation Method</b>	<b>(E) Object Points ( / 1.0502 )</b>
BC-1-736	Software Driven Entry to IETM	1	POC	0.0942
BC-1-737	Dynamic Diagnostics	2a	POC	0.0452
BC-1-738	Dynamic Diagnostics	2b	POC	0.0451
BC-1-739	Prognostics	3a	POC	0.0441
BC-1-735	Prognostics	3b	POC	0.0441
BC-1-740	System Simulation	4	POC	0.0861
BC-1-741	Wire/Fluid System Tracing	5	POC	0.0777
BC-1-748	Dialog-Driven Interaction	6	POC	0.0683
BC-1-749	Filter by Configuration	7	POC	0.0651
BC-1-750	Filter by Model Series	8	POC	0.0620
BC-1-751	Filter by Modification	9	POC	0.0609
BC-1-752	Filter by Unique Identification Code	10	POC	0.0557
BC-1-753	Simultaneous Display of Multiple Content	11a	POC	0.0252
BC-1-755	Simultaneous Display of Multiple Content	11b	POC	0.0252
BC-1-756	System/Subsystem Navigation	12	POC	0.0452
BC-1-757	Tear off Window Capability	13a	POC	0.0200
BC-1-759	Tear off Window Capability	13b	POC	0.0200
BC-1-758	User Creation of Bookmarks	14	POC	0.0347
BC-1-761	Hot Reference	15	POC	0.0236
BC-1-762	Internal References	16	POC	0.0242
BC-1-763	Work Package Specific Printing	17a	POC	0.0095
<b>IETM (continued)</b>				

Total Points (Category)				1.0502
(A) Object ID / RFP Ref	(B) Object Name	(C) Ordinal Ranking	(D) Evaluation Method	(E) Object Points ( / 1.0502 )
BC-1-764	Work Package Specific Printing	17b	POC	0.0095
BC-1-765	Fully Formatted/Book Version Printing	18a	POC	0.0069
BC-1-766	Fully Formatted/Book Version Printing	18b	POC	0.0069
BC-1-768	Animation	19a	POC	0.0063
BC-1-769	Animation	19b	POC	0.0062
BC-1-770	Audio	20a	POC	0.0062
BC-1-771	Audio	20b	POC	0.0061
BC-1-772	Motion Video	21a	POC	0.0046
BC-1-774	Motion Video	21b	POC	0.0045
BC-1-776	Digital Photos	22a	POC	0.0027
BC-1-777	Digital Photos	22b	POC	0.0026
BC-1-778	User Training	23	POC	0.0032
BC-1-779	Reset User Interface to Standard Default	24	POC	0.0022
BC-1-780	3D Modeling	25	POC	0.0013
BC-1-743	Deficiency Report	26	POC	0.0012
BC-1-744	Maintenance Data Collection	27	POC	0.0011
BC-1-747	Supporting Technical Data	28	POC	0.0008
BC-1-732	Personal Annotation	29	POC	0.0007
BC-1-733	Redlining Graphics	30	POC	0.0006
BC-1-786	Login	31	POC	0.0005
<b>IETM Sum</b>				<b>1.0502</b>

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 5 – Certifications

## **PART 5 – CERTIFICATIONS**

### **1.0 Certifications**

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

### **2.0 Mandatory Certifications**

#### **2.1 Code of Conduct and Certifications - Related documentation**

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications – Standard instructions 2003, Part 2, Attachment 1. The related documentation required will assist Canada in confirming that the certifications are true.

#### **2.2 Team Stability**

Canada believes that there is a strong correlation between the successes of an initiative and a Contractor with well-established relationships with its team members (subcontractors, joint venture partners, partners, parent organization, sister organization and any subsidiary organization).

Therefore, by submitting bid, the Bidder hereby certifies that:

- (i) All of the Bidder's team members identified in its proposal have a signed teaming agreement or signed Contract in respect of the services to be provided under any contract resulting from this RFP, prior to the bid closing date (A signed letter of intent from a team member is not sufficient);
- (ii) Where the team member is a related organization (i.e. parent, sister and/or subsidiary organization), the teaming agreement or Contract to which the experience relates, must stipulate that the Bidder can rely upon and use the experience of the team member throughout the performance of any resulting Contracts;
- (iii) Where the team member is a subcontractor or limited partner, the teaming agreement or Contract must stipulate that the team member whose experience is being presented for evaluation will be actively responsible for the delivery of those services to which the experience relates under any resulting Contracts; and
- (iv) For the experience to be accepted, Bidders must provide a list of names and the organization for which teaming arrangement or contracts are in place. This list of names should be submitted with the bid. If the names are not provided with the bid, Canada will so inform the Bidder of the time frame within which to provide the information. Failure to comply will result in the experience of the teaming member not being evaluated.

**2.3 Not Used**

**2.4 Certificate of Compliance**

By submitting a Bid, the Bidder certifies that they have thoroughly reviewed and understood the requirements of the complete Solicitation (Parts 1 through 8) and if selected, agree to comply with all requirements detailed therein.

The Bidder certifies that they will satisfy all contract requirements and the products to be delivered against the contracts will comply with all contract requirements and will be fit for use as defined in the Resulting Contracts.

**3.0 Mandatory Certifications Required Precedent to Contract Award**

The certifications listed below should be completed and submitted with the bid but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

**3.1 Federal Contractors Program - Certification**

The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the *Government Contracts Regulations*. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

If the Bidder does not fall within the exceptions enumerated in (a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168 (<http://www.servicecanada.gc.ca/cgi-bin/search/eforms/index.cgi?app=profile&form=lab1168&dept=sc&lang=e>), Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.

The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) ( ) is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;



- (b) ( ) is not subject to the FCP, being a regulated employer under the *Employment Equity Act*, S.C. 1995, c. 44 (<http://laws.justice.gc.ca/en/E-5.401/index.html>);
- (c) ( ) is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;
- (d) ( ) is subject to the FCP, and has a valid certificate number as follows:  
\_\_\_\_\_ (e.g. has not been declared an ineligible contractor by HRSDC.)

Further information on the FCP is available on the HRSDC Web site (<http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml>).

### 3.2 Employment Created or Maintained

The Bidder is requested to specify the impact on employment in Canada should it be awarded Contracts as a result of this RFP; this information is to be shown in terms of person-year (full time) equivalent, calculated by multiplying the number of individuals proposed times the duration of the Contract; e.g. if two individuals will be employed full-time and the Contract is for the duration of two (2) years then the person-year (full-time) equivalent count would be 4; or if one individual will be employed and the period of the Contract is half a year then the person-year (full-time) equivalent count would be 0.5.

Jobs created in Canada: \_\_\_\_\_

Jobs maintained in Canada: \_\_\_\_\_

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06MSMP/L

PART 6 – SECURITY, FINANCIAL AND OTHER REQUIREMENTS

## **PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS**

### **1 Security Requirement**

- 1.1 A portion of the Technical Specification is classified as SECRET. Before award of a contract, and before obtaining the classified portion of the bid solicitation, the following conditions must be met:
- (a) The Bidder must hold a valid organization security clearance as indicated in Annex A of Part 7 and Part 8 - Resulting Contract Clauses;
  - (b) The Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirement as indicated in Annex A of Part 7 and Part 8 - Resulting Contract Clauses;
  - (c) The Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites;
  - (d) The Bidder's proposed location of work performance or document safeguarding must meet the security requirement as indicated in Annex A of Part 7 and Part 8 – Resulting Contract Clauses; and
  - (e) The Bidder must provide the address(es) of proposed location(s) of work performance or document safeguarding.
- 1.2 Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a contract to allow the successful bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.
- 1.3 For additional information on security requirements, bidders should consult the “[Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders](http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31)” (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents Web site.
- 1.4 Bidder's should contact the Contracting Authority to obtain their country specific security requirements clauses that may form part of any resultant contract.

### **2 Financial Capability Requirement**

- 2.1 The Bidder must have the financial capability to fulfill this requirement. To determine the Bidder's financial capability, the Contracting Authority may, by written notice to the Bidder, require the submission of some or all of the financial information detailed below during the evaluation of bids. The Bidder must provide the following information to the Contracting Authority within fifteen (15) working days of the request or as specified by the Contracting Authority in the notice:
- (a) Audited financial statements, if available, or the unaudited financial statements (prepared by the Bidder's outside accounting firm, if available, or prepared in-house if no external statements have been prepared) for the Bidder's last three fiscal years, or for the years that the Bidder has been in business if this is less than three years (including, as a minimum, the Balance Sheet, the Statement of Retained Earnings, the Income Statement and any notes to the statements).
  - (b) If the date of the financial statements in (a) above is more than five months before the date of the request for information by the Contracting Authority, the Bidder must also provide, unless this is prohibited by legislation for public companies, the last quarterly financial statements (consisting of a Balance Sheet and a year-to-date Income

Statement), as of two months before the date on which the Contracting Authority requests this information.

- (c) If the Bidder has not been in business for at least one full fiscal year, the following must be provided:
    - (i) the opening Balance Sheet on commencement of business (in the case of a corporation, the date of incorporation); and
    - (ii) the last quarterly financial statements (consisting of a Balance Sheet and a year-to-date Income Statement) as of two months before the date on which the Contracting Authority requests this information.
  - (d) A certification from the Chief Financial Officer or an authorized signing officer of the Bidder that the financial information provided is complete and accurate.
  - (e) A confirmation letter from all of the financial institution(s) that have provided short-term financing to the Bidder outlining the total of lines of credit granted to the Bidder and the amount of credit that remains available and not drawn upon as of one month prior to the date on which the Contracting Authority requests this information.
  - (f) A detailed monthly Cash Flow Statement covering all the Bidder's activities (including the requirement) for the first two years of the requirement that is the subject of the bid solicitation, unless this is prohibited by legislation. This statement must detail the Bidder's major sources and amounts of cash and the major items of cash expenditures on a monthly basis, for all the Bidder's activities. All assumptions made should be explained as well as details of how cash shortfalls will be financed.
  - (g) A detailed monthly Project Cash Flow Statement covering the first two years of the requirement that is the subject of the bid solicitation, unless this is prohibited by legislation. This statement must detail the Bidder's major sources and amounts of cash and the major items of cash expenditures, for the requirement, on a monthly basis. All assumptions made should be explained as well as details of how cash shortfalls will be financed.
- 2.2 If the Bidder is a joint venture, the financial information required by the Contracting Authority must be provided by each member of the joint venture.
- 2.3 If the Bidder is a subsidiary of another company, then any financial information in 2.1(a) to (g) above required by the Contracting Authority must be provided by the ultimate parent company. Provision of parent company financial information does not satisfy the requirement for the provision of the financial information of the Bidder, and the financial capability of a parent cannot be substituted for the financial capability of the Bidder itself unless an agreement by the parent company to sign a Parental Guarantee, as drawn up by Public Works and Government Services Canada (PWGSC), is provided with the required information, in accordance with Part 6, Attachment 1 - Parental Guarantee Form.
- 2.4 **Financial Information Already Provided to PWGSC:** The Bidder is not required to resubmit any financial information requested by the Contracting Authority that is already on file at PWGSC with the Contract Cost Analysis, Audit and Policy Directorate of the Policy, Risk, Integrity and Strategic Management Sector, provided that within the above-noted time frame:
- (a) the Bidder identifies to the Contracting Authority in writing the specific information that is on file and the requirement for which this information was provided; and
  - (b) the Bidder authorizes the use of the information for this requirement. It is the Bidder's responsibility to confirm with the Contracting Authority that this information is still on file with PWGSC.

- 2.5 **Other Information:** Canada reserves the right to request from the Bidder any other information that Canada requires to conduct a complete financial capability assessment of the Bidder.
- 2.6 **Confidentiality:** If the Bidder provides the information required above to Canada in confidence while indicating that the disclosed information is confidential, then Canada will treat the information in a confidential manner as permitted by the *Access to Information Act*, R.S., 1985, c. A-1, Section 20(1) (b) and (c).
- 2.7 **Security:** In determining the Bidder's financial capability to fulfill this requirement, Canada may consider any security the Bidder is capable of providing, at the Bidder's sole expense (for example, an irrevocable letter of credit from a registered financial institution drawn in favour of Canada, a performance guarantee from a third party or some other form of security, as determined by Canada).

### 3 Controlled Goods Requirement (for Work Done in Canada)

- 3.1 As the resulting contract will require the production of or access to controlled goods that are subject to the *Defence Production Act*, R.S. 1985, c. D-1, Bidders are advised that within Canada only persons who are registered, exempt or excluded under the Controlled Goods Program (CGP) are lawfully entitled to examine, possess or transfer controlled goods. Details on how to register under the CGP are available at: <http://ssi-iss.tpsgc-pwgsc.gc.ca/dmc-cgd/index-eng.html> and registration is carried out as follows:
- a) When the bid solicitation includes controlled goods information or technology, the Bidder must be registered, exempt or excluded under the CGP before receiving the bid solicitation. Requests for technical data packages or specifications related to controlled goods should be made in writing to the Contracting Authority identified in the bid solicitation and must contain the CGP registration number or written proof of exemption or exclusion of the Bidder and of any other person to whom the Bidder will give access to the controlled goods;
  - b) When the bid solicitation does not include controlled goods information or technology but the resulting contract requires the production of or access to controlled goods, the successful Bidder and any subcontractor who will be producing or accessing controlled goods must be registered, exempt or excluded under the CGP before examining, possessing or transferring controlled goods;
  - c) When the successful Bidder and any subcontractor proposed to examine, possess or transfer controlled goods are not registered, exempt or excluded under the CGP at time of contract award, the successful Bidder and any subcontractor must, within seven (7) working days from receipt of written notification of contract award, ensure that the required application(s) for registration or exemption are submitted to the CGP. No examination, possession or transfer of controlled goods must be performed until the successful Bidder has provided proof, satisfactory to the Contracting Authority, that the successful Bidder and any subcontractor are registered, exempt, or excluded under the CGP; and
  - d) Failure to provide proof, satisfactory to the Contracting Authority, that the successful Bidder and any subcontractor are registered, exempt or excluded under the CGP, within thirty (30) calendar days from receipt of written notification of contract award, will be considered a default under the resulting contract except to the extent that Canada is responsible for the failure due to delay in processing the application.

- 3.2 Bidders are advised that all information on the Application for Registration (or exemption) Form will be verified and errors or inaccuracies may cause significant delays and/or result in denial of registration or exemption.

#### **4 Insurance Requirements**

- 4.1 The Bidder must provide a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Bidder, if awarded a contract as a result of the bid solicitation, can be insured in accordance with the Insurance Requirements specified in Part 8 (SMP ISS Contract) to the RFP.
- 4.2 If the information is not provided in the bid, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

#### **5 Other Requirements of the Solicitation**

Bidders are to provide one (1) Cargo variant, one (1) LHS Variant with APS, and one (1) LHS trailer (hereinafter referred to as "Test Articles"), as part of their bid submission for the TCP evaluation purposes. The Test Articles must be delivered to the Nevada Automotive Test Centre (NATC) no later than thirty (30) calendar days after the bid closing date indicated on the cover page of the bid solicitation. NATC will perform the SMP Performance Testing on behalf of Canada. Upon completion of the testing, the results will be provided to Canada for use in the technical evaluation.

The Test Articles must be configured as per Part 3, Attachment 3, Section 2. Bidders are responsible for the Test Articles, including their delivery and return to the test site. Furthermore, the bidder is responsible to advise the CA upon arrival of the Test Articles to the test site.

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 6 – Security, Financial and Other Requirements

Attachment 1 – Parental Guarantee

THIS AGREEMENT made in duplicate as of the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

B E T W E E N; **HER MAJESTY THE QUEEN** in right of Canada (hereinafter called "Her Majesty") as represented by the Minister of Public Works and Government Services (hereinafter called the "Minister")

OF THE FIRST PART

A N D; \_\_\_\_\_, a body corporate incorporated pursuant to the laws of \_\_\_\_\_ with its principal place of business at \_\_\_\_\_ (hereinafter the "Guarantor")

OF THE SECOND PART

WITNESSETH THAT:

WHEREAS the Minister and (full legal name of contractor) (the "Contractor") propose to enter into Contract No. \_\_\_\_\_ for \_\_\_\_\_ on the terms and conditions and for the purposes all as specified or described in that Contract (the "Contract");

WHEREAS the Guarantor has agreed to guarantee to Her Majesty the Contractor's performance of the Contract unconditionally and irrevocably on the terms and conditions hereinafter set out;

NOW THEREFORE, in consideration of the premises, mutual covenants, promises, conditions and agreements hereinafter set out, the Parties hereby covenant, promise and agree:

1. The provisions of this Performance Guarantee, and the rights, status and obligations of the Parties shall be interpreted and determined in accordance with the laws in force in the Province of Ontario, Canada.
2. It is further understood and agreed that the receipt by the Contractor or the Guarantor of any monies paid by Her Majesty to any one or more of them as the case may be, under or in respect of the Contract shall be in complete discharge and release to Her Majesty for and in respect of all monies so paid irrespective of the date when or the party to whom but for this Performance Guarantee such monies were or might, or would have been payable.
3. (a) The Guarantor hereby unconditionally and irrevocably guarantees to Her Majesty the due performance of all of the obligations, terms and conditions that are set out to be performed by the Contractor in the Contract and including any extensions thereof.

(b) It is hereby agreed by the Guarantor with respect to its guarantee in subparagraph (a) above that:

- (i) no modification, variation or amendment of the Contract, grant of any indulgence, release, postponement or extension of time, waiver of any term or condition of the Contract, taking or release of any securities or other guarantees for performance and other dealings, as Her Majesty may see fit, shall affect, lessen or impair in any way the liability of the Guarantor;
- (ii) no waiver of any of Her Majesty's options, powers or rights hereunder and no modification of this Performance Guarantee shall be effective unless the same shall be in writing, duly signed on behalf of the Minister by the duly authorized representatives of the Minister and each such waiver, if any, shall apply only with respect to the specific instance involved, and shall not in any way impair the



options, powers or rights of Her Majesty or the obligations of the Guarantor hereunder in any other respect or at any other time.

- (iii) no delay on the part of Her Majesty in exercising any of its options, powers or rights hereunder or any partial or single exercise thereof, shall constitute a waiver thereof.
- (iv) Her Majesty shall not be required to give to the Guarantor any notice of anything done pursuant to the Contract nor of any amendment to the Contract and the absence of such notice shall in no respect vitiate or impair this Performance Guarantee and the giving of such notice by Her Majesty out of courtesy, abundance of caution or otherwise shall not in any way detract from or impair the rights of Her Majesty under this Performance Guarantee;
- (v) Her Majesty shall not be obliged to resort to or exhaust any recourse which it may have before being entitled to claim against the Guarantor;
- (vi) unless the prior written permission of Her Majesty to the contrary is obtained, nothing whatsoever, except the performance in full of all of the obligations of the Contractor under Contract shall discharge the Guarantor;
- (vii) if there is any failure by the Contractor to perform or fulfil any of its obligations under the Contract, for any reason, however arising, then forthwith, upon the date of receipt by the Guarantor of a written notice from the Minister citing the default, the Guarantor shall undertake or cause to be undertaken the performance of all outstanding obligations, as primary obligor and not as surety; and
- (viii) whenever any determination of any dispute is made, pursuant to the provisions of the Contract, or any judgment or finding of a court of competent jurisdiction is issued or made, which is binding upon the Contractor in respect of the Contract, such determination shall be binding upon the Guarantor.

(c) Demands and notices under this Performance Guarantee may be made by Her Majesty from time to time.

4. Any notice required or permitted to be given hereunder shall be in writing and may be given by delivering the same, by hand, facsimile, or by electronic mail, or by mailing the same by registered mail with return receipt postage prepaid addressed, in the case of Her Majesty, to:

Attention:

Telephone:

Facsimile:

E-mail:

In the case of the Guarantor:

Full Address:

Contact Name:

Contact Telephone:

Contact Facsimile:

Contact e-mail:

or to such other address as any of the parties as to itself may from time to time designate in writing to the other. Any notice aforesaid if delivered shall be deemed to have been given on the date on which it was delivered, if sent by facsimile, or electronic mail, on the date of transmittal with acknowledgement of receipt, or if mailed by registered mail with return receipt shall be deemed to have been given on the day on which it was received as evidenced by the receipt.

5. The Guarantor hereby acknowledges that Her Majesty has made no representation or warranty to it in connection with the execution of this Performance Guarantee, except as expressly stated herein.
6. This Performance Guarantee may not be assigned.
7. This Performance Guarantee shall be in force and effect from the date of award of the Contract to the Contractor until all obligations of the Contractor under any such Contract have been fulfilled to the satisfaction of Her Majesty.
8. This Performance Guarantee is in addition to and not in substitution for any security of any kind or any other guarantee that may at any time have been or may be acquired by Her Majesty and any other rights or remedies that Her Majesty might have.
9. This Performance Guarantee shall not be impaired by any loss of any security now or hereafter held by or on behalf of Her Majesty whether occasioned through its fault, negligence or otherwise (including without limitation any loss occasioned by the failure to register, perfect, maintain the registration or perfection of, re-register, re-perfect or renew any such security.)

IN WITNESS WHEREOF, this Performance Guarantee has been duly executed by Her Majesty the Queen in Right of Canada as represented by the duly authorized representatives of the Minister of Public Works and Government Services and by full legal name of guarantor by its officers duly authorized in that behalf.

**SIGNED, SEALED AND DELIVERED**

**THE MINISTER OF PUBLIC WORKS AND GOVERNMENT SERVICES  
CANADA**

per: \_\_\_\_\_  
(Name / Title)

per: \_\_\_\_\_  
(Name / Title)

**FULL LEGAL NAME OF GUARANTOR**

per: \_\_\_\_\_  
(Name / Title)

per: \_\_\_\_\_  
(Name / Title)

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 7 - Resulting Contract - Acquisition

THIS RESULTING CONTRACT CONTAINS A SECURITY  
REQUIREMENT

## Table of Contents

<b>1</b>	<b>INTRODUCTION AND REQUIREMENT .....</b>	<b>4</b>
1.1	Background .....	4
1.2	Requirement .....	4
1.3	Optional Goods and/or Services .....	5
1.4	Standard Clauses and Conditions .....	5
1.5	Security Requirement .....	7
1.6	Additional Work Requirements .....	8
1.7	Task Authorization .....	8
1.8	Changes in the Work .....	9
1.9	Waivers and Deviations .....	10
1.10	Pricing of Changes .....	10
1.11	Contract Change Proposal .....	10
1.12	Not Used .....	11
1.13	Defence Contract .....	11
<b>2</b>	<b>AUTHORITIES .....</b>	<b>11</b>
2.1	Contracting Authority .....	11
2.2	Technical Authority .....	11
2.3	Requisition Authority .....	12
2.4	Industrial Regional Benefits Authority .....	12
2.5	Quality Assurance Authority .....	12
2.6	Contractor's Representatives .....	12
<b>3</b>	<b>FINANCIAL .....</b>	<b>12</b>
3.1	Basis of Payment .....	12
3.2	Limitation of Expenditure .....	13
3.3	Not Used .....	13
3.4	Terms of Payment .....	13
3.5	Invoicing Instructions .....	14
3.6	Exchange Rate Fluctuation (only applicable if Contractor opted for Foreign Exchange Adjustment when submitting its bid) .....	14
3.7	Taxes - Foreign-based Contractor .....	15
3.8	Time Verification and Acceptance .....	15
3.9	Travel and Living Expenses for AWR .....	15
3.10	Customs Duties, Excise Taxes and GST/HST - Non-resident .....	15
3.11	Not Used .....	16
3.12	Customs Duties – Contractor Importer (DDP Only) .....	16
3.13	Priority Rating (US supplier only) .....	16
3.14	Priority Rating – Canadian-based Contractor .....	16
3.15	Lien - Section 427 of the Bank Act .....	16
<b>4</b>	<b>DELIVERY, QUALITY, INSPECTION, AND ACCEPTANCE .....</b>	<b>17</b>
4.1	Term of Contract .....	17
4.2	Preparation for Delivery .....	17
4.3	Shipping Instructions .....	17
4.4	Special Instructions for the Delivery of CLIN 1000, 2000 and 3000. ....	17
4.5	Consignee .....	17
4.6	Quality Assurance Authority (DND) - Canadian-based Contractor .....	18
4.7	Quality Assurance Authority (DND) - Foreign-based and United States Contractor .....	18
4.8	ISO 9001:2008 Quality Management Systems - Requirements (QAC Q) .....	19
4.9	Non Destructive Testing .....	20
4.10	Not Used .....	20
4.11	Inspection and Acceptance .....	20
4.12	Release Documents (DND) .....	21
4.13	Release Documents – Distribution .....	21
4.14	Canadian Customs Documentation (DND importer only) .....	21
4.15	Palletization .....	22
4.16	Condition of Material .....	22
4.17	Wood Packaging Materials .....	22

4.18	Full Interchangeability.....	23
4.19	Total System Responsibility .....	23
5	GOVERNMENT PROPERTY .....	23
5.1	Care of Government Property .....	23
5.2	DND Loaned Property .....	24
5.3	Government Furnished Equipment (GFE).....	24
5.4	Government Furnished Information (GFI) .....	24
5.5	Government Supplied Material (GSM) .....	24
5.6	Canadian Forces Site Regulations .....	25
6	ENVIRONMENTAL .....	25
6.1	Dangerous Goods/Hazardous Products.....	25
6.2	Environmental – General .....	26
6.3	Environmental Management System (EMS) Requirement (ISO 14001).....	26
6.4	Controlled Products .....	27
6.5	EHS Compliance .....	27
6.6	Radioactive Material .....	27
7	GENERAL TERMS AND CONDITIONS .....	27
7.1	Copyright Provisions.....	27
7.2	Applicable Laws.....	28
7.3	Insurance .....	28
7.4	Deleted .....	28
7.5	Certifications .....	28
7.6	Controlled Goods.....	28
7.7	Controlled Goods Program.....	28
7.8	Foreign Nationals .....	29
7.9	Dispute Resolution .....	29
7.10	Priority of Documents .....	30
7.11	Contract Closeout.....	30
7.12	Ceremonies and Announcements .....	30
7.13	End-User Certificate .....	30

**List of Annexes:**

Annex A	SRCL
Annex B	Statement of Work
Annex C	Price and Delivery
Annex D	2030 (2013-04-25) General Conditions – High Complexity – Goods
Annex E	4006 (2010-08-16) Supplemental General Conditions
Annex F	Industrial and Regional Benefits Requirements
Annex G	Certificate of Defence Supplies
Annex H	Forms
Annex I	Acceptance Procedures

## RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### 1 INTRODUCTION AND REQUIREMENT

#### 1.1 Background

- 1.1.1 The Department of National Defence (DND) has a requirement to replace its current Medium Logistic Vehicle, Wheeled (MLVW) fleet and associated systems. The project to replace the MLVW fleet is identified as the Medium Support Vehicle System (MSVS) project.
- 1.1.2 The MSVS project consists of four (4) separate procurement activities, as detailed below:
- Militarized Commercial-Off-The-Shelf (MilCOTS) vehicles (Contracted);
  - Special Equipment Vehicles (SEV) baseline shelters (Contracted);
  - Modification of the SEV shelters (also referred to as “kitting”) (Contracted); and
  - Standard Military Pattern (SMP) vehicles in five (5) variants: a Cargo variant, a Cargo with Material Handling Crane variant, a Load Handling System (LHS) variant, a Cargo Mobile Repair Truck (MRT) variant and a Gun Tractor Variant. The requirement also includes Trailers, Armour Protection Systems (APS) and various associated equipment; and long term In-Service-Support (ISS) for the SMP vehicles, APS, Trailers and associated equipment.

#### 1.2 Requirement

- 1.2.1 This Contract is for the acquisition of the Standard Military Pattern (SMP) Vehicles, APS, Trailers and associated equipment.
- 1.2.2 The Work must be performed in accordance with (IAW) Annex B -Statement of Work and includes, but is not limited to, the following requirements:
- 1.2.2.1 Provide the Industrial and Regional Benefits (IRB) IAW the commitments set out in Annex F– Industrial and Regional Benefits Requirements;
  - 1.2.2.2 Perform Project Management IAW Annex B;
  - 1.2.2.3 Provide Integrated Logistics Support IAW Annex B;
  - 1.2.2.4 Deliver vehicles, reports and documentation IAW Annex C – Price and Delivery; and
  - 1.2.2.5 Perform Additional Work Requirements (AWRs) as authorized IAW Article 1.6 of the Contract.
- 1.2.3 Link to SMP In-Service Support Contract
- 1.2.3.1 In this Contract, unless otherwise stated, the terms found below must be interpreted as follows:
- “SMP ISS Contract” means the Contract entered into concurrently with the Contractor for the SMP long term in-service support (**Contract number to be inserted at Contract Award**);
  - “SMP Acquisition Contract” means this Contract; and
  - “SMP Contracts” means the SMP ISS Contract and the SMP Acquisition Contract and encompass all the obligations of both Contracts.
- 1.2.3.2 While the SMP Acquisition and SMP ISS Contracts are separate contracts for administrative purposes, they must be seen as different phases of the same requirement.
- 1.2.3.3 The Contractor must perform the Work under both Contracts in accordance with the following:
- The Contractor must ensure that all interrelated activities, processes, decisions, changes, deviations, waivers, deliverables to be accepted by

- Canada under the SMP Acquisition Contract, meet all obligations under the SMP ISS Contracts; and
- b) The Contractor must manage the linkages between the SMP Contracts. The Work to be performed under the SMP Contracts must be conducted in a seamless, continuous manner. The Contractor must co-ordinate the activities of the SMP Contracts so that the outcomes of one are supportive and consistent with the other.
- 1.2.3.4 The Contractor must not interpret anything presented in the SOW of both SMP Contracts' as requiring duplication of management planning or execution effort. The Contractor must notify Canada of any discrepancy, issues or improvement opportunities associated with the requirements defined in the SMP Contracts.
- 1.2.3.5 The Contractor must transition the Work or any part thereof under the SMP Acquisition Contract to the SMP ISS Contract IAW the ISS SOW, Annex B, Section 1.1.2 - SMP Acquisition Contract Legacy.
- 1.2.4 Definitions:
- 1.2.4.1 "Deliverable" or "Item" or "Deliverable End-Item (DEI)" or "Contract Line Item Number (CLIN)" means a portion of the Work, that is an item, service or data stipulated in Annex C – Price and Delivery, and which is to be produced, sold and delivered by the Contractor to Canada under this Contract;
- 1.2.4.2 "Must", "Shall", "Will", "Is Required" "Mandatory" denote requirements that the Contractor is contractually obliged to deliver and meet;
- 1.2.4.3 "Should" denote requirements that are considered ideal, but not Mandatory;
- 1.2.4.4 "Laid Down Cost" is defined as the cost incurred by the Contractor to acquire the parts for resale to Canada. This includes the supplier invoice price less trade discount plus any applicable charges for transportation, foreign exchange, customs duties and brokerage charges, but exclude tax.

### 1.3 Optional Goods and/or Services

- 1.3.1 The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex C– Price and Delivery of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment. The Contracting Authority may exercise the option within 48 months after contract award by sending a written notice to the Contractor.
- 1.3.2 The Contractor acknowledges and agrees that in the event Canada exercises the option to purchase goods, services or both, under this Article, the level of Industrial and Regional Direct and Indirect Benefits to be achieved by the Contractor will be correspondingly either increased or decreased and specified in Annex F - Industrial and Regional Benefits Requirements.

### 1.4 Standard Clauses and Conditions

- 1.4.1 All clauses and conditions identified in the Contract by number, date and title are set out in the **Standard Acquisition Clauses and Conditions** (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) Manual issued by Public Works and Government Services Canada.
- 1.4.2 General Conditions  
2030 (2013-04-25) General Conditions - Higher Complexity – Goods (attached as Annex D) apply to and form part of the Contract.
- At 2030 22 (2008-05-12) Warranty:  
**Insert** new Sub-Articles as follows:
8. Notwithstanding the foregoing, the Contractor must assign to Canada any warranties provided by its subcontractors for any components supplied by them for incorporation into the Work that exceeds the basis warranty required

by this Article, to the extent any such warranties are assignable to Canada or, when such warranties are not assignable, will exercise them on behalf of Canada.

9. The Contractor must provide a Warranty claims report summarizing all closed warranty claims and the status of all open claims and must make the report available to Canada through the EIE. The warranty claims report must be updated on a quarterly basis and continue throughout the warranty period and must transfer to the In-Service Support Contract upon request by Canada.

#### 1.4.3 Supplemental General Conditions

4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information (attached as Annex E) apply to and form part of the Contract.

- At 4006 01 (2008-05-12) Interpretation sub-Article 1:  
Delete: Definition of "Background Information"  
Insert: "Background Information" means all Intellectual Property that is not Foreground Information and that is proprietary to or the confidential information of the Contractor, its subcontractors or any other third party. At 4006 01 (2008-05-12) Interpretation sub-Article 1:

Insert new definitions as follows:

"Interface Control Documents (ICDs)" means the documentation, including drawings, that describe the physical, functional, electrical and logical interfaces between the MSVS systems, subsystems and major assemblies, training devices, simulators and Government Property. The ICDs are identified in the SMP Acquisition Statement of Work (Annex B of this Contract).

"Provisioning Data" means the various data and documentation needed by DND to identify, catalogue, procure and distribute the repairable and consumable spares used in the maintenance done by DND. It includes the Provisioning Parts Breakdown (PPB), Recommended Spare Parts List (RSPL), Long Lead Time Items List (LLTIL), Interim Spares List (ISL), Special Tools and Test Equipment (STTE) List, Supplementary Provisioning Technical Documentation (SPTD), Repair and Overhaul (R&O) Candidate Items List and Logistics Support Analysis (LSA) data. This data is identified in the SMP Acquisition Statement of Work.

"Specific Data" means the specific element of the SMP Technical Data Package (TDP) which are required to be provided upon request by Canada and required for the maintenance, as well as other Canada responsibilities such as Contract oversight, safety oversight, equipment improvements, fleet management and operations.

"Technical Information" means the technical manuals, maintenance manuals, user's manuals, operator's manuals, courseware, training packages, data required for the Electronic Information Environment (EIE), non-standard repair instructions, and the like that are delivered or required to be delivered under the Contract and Intellectual Property as is necessary for inclusion in Canadian Forces Technical Orders (CFTO), Standard Operating Procedures, Canadian Forces Administrative Orders, Defence Administrative Orders and Directives, and the like for Canada to fulfill its responsibilities for the operation, maintenance, repair and overhaul, training and safety-related activities of the SMP equipment and ancillaries.

- At 4006 04 (2008-05-12) Licenses to Intellectual Property Rights in Foreground and Background Information sub-Article 1:



Delete: The Contractor also grants to Canada a license to use the Background Information to the extent that it is reasonably necessary for Canada to exercise fully all its rights in the deliverables and in the Foreground Information.

Insert: The Contractor also grants to Canada a license to use the Background Information to exercise fully all its rights in the deliverables and in the Foreground Information, including but not limited to, the right to use the Background Information in the Interface Control Documents, Provisioning Data, Specific Data and in any Technical Information delivered or required to be provided under the SMP Acquisition Contract and the SMP ISS Contract, for the use, operation, maintenance, repair or overhaul of the SMP equipment."

- At 4006 04 (2008-05-12) Licenses to Intellectual Property Rights in Foreground and Background Information sub-Article 3(d):

Delete: In its entirety

Insert: without restricting the scope of any license or other right in the Background Information that Canada may otherwise hold, to exercise such of the Intellectual Property Rights in the Background Information as may be required upon the occurrence of any of the following events:

- a) Canada terminates the contract for default;
  - b) The Contractor or its supplier, as applicable, ceases to do business, becomes bankrupt or insolvent, makes an assignment for the benefit of creditors, or takes the benefit of any statute relating to bankrupt or insolvent debtors; or
  - c) Canada requires support from the Contractor to operate, maintain, repair, modify or adapt the Work during their operational life and the Contractor is incapable or unwilling (for whatever reason) to provide the support for this purpose, on reasonable commercial terms commencing within thirty (30) days after a written request from the Minister.
- Canada's right includes the right to disclose the Background Information to third parties engaged by Canada and Canada will require these third parties not to use, reproduce or disclose that information except as may be necessary to support the SMP equipment. Canada's right includes the right to manufacture or to have manufactured parts for the SMP equipment.

## **1.5 Security Requirement**

- 1.5.1 The following security requirement (SRCL and related clauses) applies and form part of the Contract:

Security Requirements for Suppliers in Canada:

- 1.5.1.1 The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of SECRET, with approved Document Safeguarding and Production Capabilities at the level of SECRET, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
- 1.5.1.2 The Contractor personnel requiring access to PROTECTED/CLASSIFIED information, assets or sensitive work site(s) must EACH hold a valid personnel security screening at the level of RELIABILITY or SECRET, as required, granted or approved by the CISD, PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the Canadian Industrial Security Directorate, Public Works and Government Services Canada, the Contractor personnel MAY NOT HAVE ACCESS to PROTECTED/CLASSIFIED information or assets, and MAY NOT ENTER sites where such information or assets are kept, without an escort.
- 1.5.1.3 Processing of PROTECTED/CLASSIFIED information electronically at the Contractor's site is NOT permitted under this Contract.

- 1.5.1.4 Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISC/PWGSC.
- 1.5.1.5 The Contractor must comply with the provisions of the:
  - a) Security Requirements Check List and security guide (if applicable), attached at Annex A;
  - b) Industrial Security Manual (Latest Edition).-To be inserted at Contract Award-

***Note to Bidders: Bidder's Country specific Security Requirement clauses will be inserted at Contract Award.***

**1.5.2 Contractor's Site or Premises Requiring Safeguard Measures**

The Contractor must diligently maintain up-to-date, the information related to the Contractor's site or premises, where safeguard measures are required in the performance of the Work, for the following address: **(to be inserted at contract award)**

Address:

Street Number / Street Name, Unit / Suite / Apartment Number  
City, Province, Territory / State  
Postal Code / Zip Code  
Country

**1.6 Additional Work Requirements**

- 1.6.1 During the course of the Work, there may be Additional Work Requirements (AWR) that may be required by Canada on the Vehicles, APS, Trailers and associated equipment.
- 1.6.2 Additional Work Requirements (AWRs) encompass Work that is over and above the current Contract requirements, but within the scope of the Contract.
- 1.6.3 AWRs, which represent one-time only services, will be authorized via a Task Authorization (DND 626 Tasking) in accordance with Article 1.7, Task Authorization (DND 626 Tasking).
- 1.6.4 AWRs, which are of a recurring nature and/or affect the contract deliverables such as Design Changes and Engineering Change Proposals (ECPs), will be implemented in accordance with Article 1.8, Change in the Work.
- 1.6.5 In the event that modifications, i.e. Design Changes or additional work are introduced, costs and level of effort for this work will be negotiated IAW Article 1.10 Pricing of Changes
- 1.6.6 The AWR Work must be carried out only after receipt of written authorization.
- 1.6.7 All AWRs regardless of value must be authorized by the CA. Once approved, the CA will forward a signed copy of the authorized AWR task to the Contractor on a Task Authorization Form (see Annex H).

**1.7 Task Authorization**

- 1.7.1 The DND 626 "Task Authorization" form is the Task Authorization method that will be used to authorize the Additional Work Requirements tasks under this Contract. The Contractor must not proceed with any additional work without receiving a duly authorized Task Authorization.
- 1.7.2 Details of each task assigned will be described in an individual Task Statement of Work (SOW).
- 1.7.3 All the terms and conditions of the Contract apply to this Task Authorization method and cannot be amended without written authorization by the Contracting Authority.
- 1.7.4 Work defined in the Task SOW will be within the general Scope of Work stated in the Contract. The Contractor must control all Work by the serial numbers assigned to all Task SOWs.
- 1.7.5 These procedures must be followed for any AWR.
  - 1.7.5.1 When Canada requests an AWR:
    - a) The Technical Authority will provide the Contracting Authority with written technical instructions detailed in a Task SOW, signed by the Technical Authority and approved by Requisitioning Authority and Contracting Authority

as required in sufficient detail to allow the Contractor to provide the following information:

- i - any impact of the AWR on the requirement of the Contract;
  - ii - a price breakdown of the cost (increase or decrease) associated with the implementation AWR IAW Article 1.10 – Pricing of Changes; and
  - iii - a schedule to implement the AWR and the impact on the contract delivery schedule.
  - iv - Any changes (positive or negative) on the Health and Safety impact of the Vehicles.
- b) The Contracting Authority will then forward this information to the Contractor.
  - c) The Contractor will prepare an offer and will send it to the Contracting Authority for evaluation and negotiation. Once agreement has been reached, DND will prepare a DND 626 form, to be signed by the Requisition Authority and approved by the Contracting Authority. This constitutes the written authorization for the Contractor to proceed with the AWR, and the Contract will be amended accordingly.

**1.7.5.2 When the Contractor requests an AWR:**

- a) The Contractor must provide the Contracting Authority with a request for an AWR in sufficient detail for review by Canada.
- b) The Contracting Authority will forward the request to the Technical Authority for review.
- c) If Canada agrees that an AWR is required, then the procedures detailed in sub-Article 1.7.5.1 are to be followed.
- d) The Contracting Authority will inform the Contractor in writing if Canada determines that the AWR is not required within 15 days or such longer time period as the CA may in writing direct.

**1.7.5.3 Approval**

- a) The Contractor must not proceed with any AWR without the written authorization of the Contracting Authority. Any work performed without the Contracting Authority's written authorization will be considered outside the scope of the Contract and no payment will be made for such work.

**1.8 Changes in the Work**

- 1.8.1 The Contracting Authority may, by notice, from time to time, request changes (additions, deletions, substitutions) in the Work, if the change is deemed by Canada to be within the general scope of the Contract. Upon receipt of such notice, the Contractor must prepare and submit an Engineering Change Proposal (ECP) as detailed in Annex B. The Contractor may also request changes within the general scope of the Contract by submitting an ECP.
- 1.8.2 If any change causes an increase or decrease in the cost of performing the Work, the time for performance, or other affected provisions of this Contract, then the Contractor must submit a Contract Change Proposal (CCP), in accordance with Article 1.11 - Contract Change Proposal. Any adjustment to the Contract Price must be based on the rates and mark-ups (Overheads and Profit) specified in Annex C – Price and Delivery.
- 1.8.3 Regardless of change in cost, an ECP must be completed to provide a formal reference to the change in Specification.
- 1.8.4 No variation of any nature to this Contract and no representation, agreement, arrangement or other communication will be effective and binding unless it is in writing and made or granted by:
  - 1.8.4.1 An approved ECP, CCP, Deviation or Waiver accepted in writing by the CA; or
  - 1.8.4.2 An amendment executed by the Contracting Authority and the authorized signing officer of the Contractor.
- 1.8.5 No change in the work and no increase in price because of changes in the Work will be recognized under this Contract, except in accordance with the provisions described in this Article.

- 1.8.6 No one other than the CA has the authority to approve any amendments or changes to this Contract. The Contractor must promptly report to the CA any direction given by anyone other than the CA that might result in any such amendments or change.
- 1.8.7 If a change requested by either Party under this Contract impacts the Work, the Contract Price or any other aspect of the SMP In-Service Contract, the Contractor must submit an ECP simultaneously under the SMP In-Service Support Contract. The impact of both changes will be considered concurrently.
- 1.8.8 A contract amendment will be issued periodically to incorporate the changes in the Contract.

#### **1.9 Waivers and Deviations**

- 1.9.1 Where applicable, the Contractor may submit a Request for Waiver (RFW) or a Request for Deviation (RFD) in accordance with Annex B, Statement of Work.
- 1.9.2 Where an RFW or RFD has an impact on the delivery schedule, the Contract Price or any other aspect of the Contract, it must include all of the relevant details in these regards and the Contractor must submit a CCP concurrently.
- 1.9.3 The RFW, RFD, and accompanying CCP if applicable, are effective upon their approval in writing by the Contract Authority.

#### **1.10 Pricing of Changes**

- 1.10.1 If any change requested under Articles 1.6 – Additional Work Requirements or 1.8 - Changes in the Work, causes an increase or decrease in the cost of performing the Work or the time of performance, then the Contract Price, the time for performance and other affected provisions will be adjusted using the factors set forth in Article 1.8 - Changes in the Work, and the following:
  - 1.10.1.1 A forecast of the effect on the delivery schedule; and
  - 1.10.1.2 Any other pertinent factors other than those referred to in this Sub Article.
- 1.10.2 For pricing of changes, the Contractor must provide a proposed firm price with detailed cost breakdown estimates by labour category using Contractor rates and Overheads at Annex C– Price and Delivery for the period in which the Work is performed, material and other direct cost duly supported (with supplier, sub-contractor quotations or other appropriate documentation accepted by Canada).
  - 1.10.2.1 For Firm Hourly Rates: Proposed hours expended at the rates plus overheads and profit as set out in Annex C – Price and Delivery, for the period in which the work is performed.
  - 1.10.2.2 For materials and subcontracts: Proposed Laid Down costs without allowance for mark-up as set out in Annex C – Price and Delivery.
  - 1.10.2.3 For Travel and Living Expenses: Authorized travel and living expenses, IAW Article 3.9, reasonably incurred in the performance of the Work, at cost, without allowance for mark-up
- 1.10.3 For AWRs, Canada may elect to authorize the Work with a basis of payment as a ceiling price.

#### **1.11 Contract Change Proposal**

- 1.11.1 A CCP must be submitted with an ECP, Request for Waiver (RFW) or Request for Deviation (RFD) IAW Annex B, paragraph. 4.6.3.2 when they have an impact on the delivery schedule, Contract Price or any other provisions of the Contract.
- 1.11.2 A CCP can be submitted without an accompanying ECP, RFW or RFD when a change requested by either Party affects aspects of the Contract not normally covered by an ECP, RFW or RFD.
- 1.11.3 When Canada requests a change and a CCP is required, the following procedures must be followed:
  - 1.11.3.1 The Technical Authority will provide the CA with a description of the design change in sufficient detail to allow the Contractor to provide the following information:

- a) any impact of the design change or additional work on the requirement of the Contract;
  - b) a price breakdown of the cost (increase or decrease) associated with the implementation AWR IAW Article 1.10 – Pricing of Changes; and
  - c) a schedule to implement the design change or to perform the additional work and the impact on the contract delivery schedule;
  - d) any impact (positive or negative) on the Environment, Health and Safety of the equipment.
- 1.11.3.2 The CA will then forward this information to the Contractor; and
- 1.11.3.3 The Contractor will prepare the Contract Change Proposal form included in Annex H and submit the completed form to the CA for review. Once agreement has been reached, the form must be signed by all parties in the appropriate signature blocks. This constitutes the written authorization for the Contractor to proceed with the work, and the Contract will be amended accordingly.
- 1.11.4 When the Contractor requests the change and a CCP is required, the following procedures must be followed:
- 1.11.4.1 The Contractor must provide the CA with a completed Contract Change Proposal form, as provided in Annex H, in sufficient detail for review by Canada;
  - 1.11.4.2 The CA will forward the request to the Technical Authority for review; and
  - 1.11.4.3 If Canada agrees that a Contract change is required, then the procedures detailed in paragraph 1.11.3.1 are to be followed.
  - 1.11.4.4 In the event that Canada determines that the requested changes are not required, The CA will inform the Contractor in writing within 30 days.
- 1.11.5 The Contractor must not proceed with any design change where a CCP is requested without the written authorization of the CA. Any work performed without the CA's written authorization will be considered outside the scope of the Contract and no payment will be made for such work.

## **1.12 Not Used**

## **1.13 Defence Contract**

- 1.13.1 The Contract is a defence contract within the meaning of the Defence Production Act, R.S.C. 1985, c. D-1, and must be governed accordingly.
- 1.13.2 Title to the Work or to any materials, parts, work-in-process or finished work must belong to Canada free and clear of all claims, liens, attachments, charges or encumbrances. Canada is entitled, at any time, to remove, sell or dispose of the Work or any part of the Work in accordance with section 20 of the Defence Production Act.

## **2 AUTHORITIES**

### **2.1 Contracting Authority**

The Contracting Authority (CA) for the Contract is:

*To be inserted at Contract award*

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

### **2.2 Technical Authority**

The Technical Authority (TA) for the Contract is:

*To be inserted at Contract award.*

The Technical Authority is the DND representative responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

### **2.3 Requisition Authority**

The Requisition Authority (RA) for the Contract is:

*To be inserted at Contract award.*

The Requisitioning Authority is a representative of the department for whom the Work is being carried out under the Contract. The Requisitioning Authority is responsible for the department's contract and financial management and the implementation of tools and processes required for the administration of the Contract, such as Task Authorizations. The Contractor may discuss administrative matters identified in the Contract with the Requisitioning Authority; however the Requisitioning Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

### **2.4 Industrial Regional Benefits Authority**

The IRB Authority for the Contract is:

*To be inserted at Contract award.*

The IRB Authority is responsible for all matters concerning the IRB requirements in the Contract. IRB matters should be discussed with the IRB Authority. However, changes to the Contract can only be made through a Contract Amendment issued by the Contracting Authority.

### **2.5 Quality Assurance Authority**

DQA-Directorate Quality Assurance  
National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: [ContractAdmin.DQA@forces.gc.ca](mailto:ContractAdmin.DQA@forces.gc.ca)

DQA is the Quality Assurance Authority of the Department of National Defence for whom the work is being carried out under this Contract.

DQA is responsible to monitor the Supplier's Quality Management System to provide confidence that the Supplier has the ability to fulfill the quality requirements in the contract.

### **2.6 Contractor's Representatives**

*To be inserted at Contract award:*

The Contractor's Representative is the person delegated by the Contractor who is responsible for the management and all technical and administrative matters relating to the Contract.

## **3 FINANCIAL**

### **3.1 Basis of Payment**

- 3.1.1 In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid in Canadian funds as follows:

- 3.1.1.1 Firm unit or lot prices for Deliverables IAW Annex C – Price and Delivery, *DDP (Consignee)* as per Incoterms 2000, unless stated otherwise. Customs duties are included if applicable and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.
- 3.1.1.2 Ceiling prices for additional work authorized IAW Article 1.6. Customs duties are included if applicable and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.
- 3.1.1.3 The Contractor will be obliged to complete the work within agreed ceiling price; no additional compensation will be paid beyond the amount for the defined work, unless amended by the CA. The ceiling price will be subject to downward adjustment only, so as not to exceed the actual cost incurred as established by government audit. Upon completion of the audit, the price must be adjusted as aforesaid, and if there has been any overpayment must be refunded to Canada.

### **3.2 Limitation of Expenditure**

- 3.2.1 Canada's total liability to the Contractor for the Deliverables under the Contract will not exceed **\$ To Be Inserted at Contract Award**. Customs duties are subject to exemption and GST or HST is extra, if applicable.
- 3.2.2 No payments will be made to the Contractor in excess of the amounts shown above unless the changes have been approved in writing by the CA. No increase in the total liability of Canada or in the price of Work resulting from, such as but not limited to: design changes, ECP, CCP, modifications or interpretations of specifications, made by the Contractor, will be authorized or paid to the Contractor unless such changes, modifications or interpretations, have been approved, in writing by the CA, prior to their incorporation of the Work.

### **3.3 Not Used**

### **3.4 Terms of Payment**

#### **3.4.1 Milestone Payments**

- 3.4.1.1 Canada will make milestone payments as follows:
  - a) For the first Vehicle of each configuration "A" to "E" (CLIN 1010, 1020, 1030, 1040 and 1050):
    - i - 20% of the unit price IAW Annex C upon Final Design Acceptance (FDA) of configuration "A" variant;
    - ii - 20% of the unit price IAW Annex C upon Final Design Acceptance (FDA) of configuration "B" variant;
    - iii - 20% of the unit price IAW Annex C upon Final Design Acceptance (FDA) of configuration "C" variant;
    - iv - 20% of the unit price IAW Annex C upon Final Design Acceptance (FDA) of configuration "D" variant;
    - v - 20% of the unit price IAW Annex C upon Final Design Acceptance (FDA) of configuration "E" variant;
    - vi - 80% of the unit price IAW Annex C upon final Delivery and Acceptance for the first delivery of each configuration variant.
- 3.4.1.2 Canada will only make the above milestone payments IAW the payment provisions of the Contract, if:
  - a) an accurate and complete claim for payment using [PWGSC-TPSGC 1111](#), Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
  - b) all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;

- c) all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

#### 3.4.2 Progress Payments

3.4.2.1 Canada will pay the Contractor for all Deliverables or CLIN, (less those above at Article 3.4.1) upon delivery and acceptance of DEI in accordance with the payment provisions of the Contract if:

- a) an accurate and complete claim for milestone payment using PWGSC-TPSGC 1111, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract. Form PWGSC-TPSGC 1111 is available at the following Website: <http://www.pwgsc.gc.ca/acquisitions/text/forms/forms-e.htm>;
- b) all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives; and
- c) all work associated with the payment has been completed, delivered and accepted by Canada.

#### 3.5 Invoicing Instructions

3.5.1 Further to the above clause 3.4, Terms of Payment, the Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, claim for Progress Payment. Invoices cannot be submitted until all work identified in the invoice is completed. Each invoice must be supported by the following:

3.5.1.1 For firm price Deliverables:

- a) A copy of the release document (Certificate of Inspection and Release) and any other documents as specified in the Contract IAW Article 4.12.

3.5.1.2 For ceiling price Deliverables:

- a) A copy of time sheets to support the time claimed;
- b) A copy of the release document (Certificate of Inspection and Release) and any other documents as specified in the Contract IAW Article 4.12; and
- c) A copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses, as applicable;
- d) A copy of the monthly progress report, as applicable.

3.5.2 Invoices must be distributed as follows:

3.5.2.1 The original and one (1) copy must be forwarded to the Requisition Authority identified under Article 2.3 of the Contract.

3.5.2.2 One (1) copy must be forwarded to the Contracting Authority identified under the Article 2.1 of the Contract.

#### 3.6 Exchange Rate Fluctuation (only applicable if Contractor opted for Foreign Exchange Adjustment when submitting its bid)

3.6.1 The prices and/or rates detailed in Annex C – Price and Delivery, include a Foreign Currency Component (FCC) for goods and/or services originating outside Canada. The foreign currency components are detailed in Annex C - Price and Delivery, Table 8 - Claim for Exchange Rate Adjustments.

3.6.2 The prices and/or rates paid will be adjusted based on the exchange rate adjustment amount. The initial exchange rate is the noon rate quoted by the Bank of Canada in effect on date of bid closing. The exchange rate for adjustment purposes will be the noon rate quoted by the Bank of Canada on the applicable date determined as follows:

3.6.2.1 For items with payment on delivery or milestone payments - the date the item is delivered and accepted by Canada; and

3.6.2.2 For items with monthly progress payments - the date of the last working day of activity for which payment is being claimed.

3.6.3 The exchange rate adjustment will be calculated as follows:

$$\text{Adjustment} = \text{FCC} * (i_1 - i_0) / i_0$$



Where, FCC = Foreign Currency Component in Canadian dollars, provided at bid submission

i0 = initial exchange rate (\$CAN per unit of foreign currency)

i1 = exchange rate for adjustment purposes (\$CAN per unit of foreign currency)

- 3.6.4 This calculation must be done for each applicable line item and the sum of adjustments must be shown as a single line item on the invoice.
- 3.6.5 The exchange rate adjustment will only be applied when the rate change is greater than 2% (+ or -) (i.e.  $\text{abs}[(i1 - i0) / i0] > .02$ ), where "abs" represents the absolute value.
- 3.6.6 The Contractor must complete and submit form "Claim for Exchange Rate Adjustment" in Table 8 to Annex C with the invoice for payments with respect to items with a Foreign Currency Component. The Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract.
- 3.6.7 Canada will have the right to audit any revision to costs and prices and/or rates under this clause.

### **3.7 Taxes - Foreign-based Contractor**

- 3.7.1 Unless specified otherwise in the Contract, the price includes no amount for any federal excise tax, state or local sales or use tax, or any other tax of a similar nature, or any Canadian tax whatsoever. The price, however, includes all other taxes. If the Work is normally subject to federal excise tax, Canada will, upon request, provide the Contractor a certificate of exemption from such federal excise tax in the form prescribed by the federal regulations.
- 3.7.2 Canada will provide the Contractor evidence of export that may be requested by the tax authorities. If, as a result of Canada's failure to do so, the Contractor has to pay federal excise tax, Canada will reimburse the Contractor if the Contractor takes such steps as Canada may require to recover any payment made by the Contractor. The Contractor must refund to Canada any amount so recovered.

### **3.8 Time Verification and Acceptance**

- 3.8.1 Time charged and the accuracy of the Contractor's time recording system are subject to verification and acceptance by Canada, before or after payment is made to the Contractor. If verification is done after payment, the Contractor must repay any overpayment, at Canada's request.

### **3.9 Travel and Living Expenses for AWR**

- 3.9.1 To perform the work, Contractor personnel may be required to travel to military establishments or other locations as may be designated by the Technical Authority. When required, travel will be authorized specifically on the DND 626 form.
- 3.9.2 The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the *National Joint Council Travel Directive* (<http://www.njc-cnm.gc.ca/directive/travel-voyage/index-eng.php>), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".
- 3.9.3 All travel must have the prior authorization of the Contracting Authority.
- 3.9.4 All payments are subject to government audit.

### **3.10 Customs Duties, Excise Taxes and GST/HST - Non-resident**

- 3.10.1 The Contractor is responsible for customs clearance of any tools, equipment or spare parts imported into Canada by its employees or a subcontractor and its employees for use in performing the Work under the Contract. The Contractor is responsible for any customs duties, excise taxes and the Goods and Services Tax or Harmonized Sales Tax, if applicable, assessed by the customs officials and payable to the Canada Border Services Agency.

### **3.11 Not Used**

### **3.12 Customs Duties – Contractor Importer (DDP Only)**

- 3.12.1 As the goods to be supplied under the Contract are defence supplies customs duties on importation to Canada may be remitted under the Tariff Item Number 9982.00.00 of the Schedule to the Customs Tariff.
- 3.12.2 Remission of customs duties payable may be granted under the Tariff Item Number 9982.00.00 when the total contract value of the defence supplies is C\$250,000 or more. This reflects the import value of the goods plus the duty that would be applicable in the absence of the Customs Tariff.
- 3.12.3 The Contractor will be responsible for pre-arranging remission on importation or for paying customs duties on importation and applying to Canada Border Services Agency for a refund. The Contractor is also responsible for applying to Public Works and Government Services Canada in good time for the certification required by the Customs Tariff.
- 3.12.4 If required, Canada will provide a Certificate for Defence Supplies to the Contractor, found in Annex G.

### **3.13 Priority Rating (US supplier only)**

- 3.13.1 Canada is a participant in the United States Defense Priorities and Allocations System and this defence contract is eligible for a priority rating. The Defence Priorities and Allocations Officer, Public Works and Government Services Canada, must advise the Contractor as to the appropriate priority rating within sixty (60) days of the date of the Contract.

### **3.14 Priority Rating – Canadian-based Contractor**

- 3.14.1 The Contract concerns a Canadian defence requirement and therefore is eligible to be assigned a "U.S. Priority Rating" for any materials/services imported from the United States which may be required in the performance of the Work. Accordingly, the Contractor must:
  - a) Make an application to the Defence Priorities and Allocations Officer, Public Works and Government Services Canada (PWGSC), either by e-mail at: [ACQB Defence Priorities - DGA Priorités dedéfense](mailto:ACQBDefencePriorities-DGA.Prioritesdedefense@pwgsc-tpsgc.gc.ca) (DGAPrioritesdedefense.ACQBDefencePriorities@pwgsc-tpsgc.gc.ca); or by facsimile: 819-956-1459; and
  - b) Include this clause in subcontracts with Canadian-based contractors, and quote the PWGSC Contract Number indicated in the Contract.
  - c) Failure to comply with the above may impact on the Contractor's delivery commitments. Therefore, the Contractor is responsible for any breach of the Contract that arises from such a failure.

### **3.15 Lien - Section 427 of the Bank Act**

- 3.15.1 If any lien under section 427 of the Bank Act, S.C. 1991, c. 46, exists in respect to any materials, parts, work-in-process, or finished work for which the Contractor intends to claim payment, the Contractor agrees to inform the Contracting Authority without delay and agrees, unless instructed otherwise by the Contracting Authority, either:
  - a) To cause the bank to remove such lien and to provide the Contracting Authority with written confirmation from the bank; or,
  - b) To provide to the Contracting Authority an undertaking from the bank that the bank will not make any claim under section 427 of the Bank Act on materials, parts, work-in-process, or finished work in respect of which payment is made to the Contractor under the Contract.
  - c) Failure to inform the Contracting Authority of such lien or failure to implement paragraph 1(a) or (b) above will constitute default under the default section of the general conditions and will entitle Canada to terminate the Contract.

#### 4 DELIVERY, QUALITY, INSPECTION, AND ACCEPTANCE

##### 4.1 Term of Contract

4.1.1 The period of the Contract is from date of Contract Award to the expiration of any and all warranty provisions of each DEI.

##### 4.1.2 Delivery Date

Delivery must be IAW Annex C – Price and Delivery or as specified otherwise.

##### 4.2 Preparation for Delivery

4.2.1 The Contractor must prepare all Deliverables for delivery IAW best commercial packaging practices.

##### 4.3 Shipping Instructions

##### 4.3.1 Shipping Instructions (DND) - Foreign-based delivery

4.3.1.1 Delivery will be DDP (Consignee) as per Incoterms 2000.

a) **Special Instruction for DDP (Consignee) as per Incoterms 2000:**

i - At DDP A4; delete: "(...) not unloaded (...)" and insert "(...) unloaded (...)"

OR

##### 4.3.2 Shipping Instructions (DND) - Canadian-based delivery

4.3.2.1 Delivery will be DDP (Consignee) as per Incoterms 2000.

a) **Special Instruction for DDP (Consignee) as per Incoterms 2000:**

i - At DDP A4; delete: "(...) not unloaded (...)" and insert "(...) unloaded (...)"

##### 4.4 Special Instructions for the Delivery of CLIN 1000, 2000 and 3000.

4.4.1 The Contractor shall pre-arrange delivery of each piece of equipment to the EFCC by contacting the OPI at the EFCC and arranging timing suitable to both parties. Should the EFCC not be able to accept delivery of equipment within seven (7) days, the Contractor shall contact the Contracting Authority.

4.4.2 The Contractor shall deliver each Vehicle to Canada (at the designated EFCC), in a drive away condition with a full tank of fuel. Each Vehicle and Trailer shall have the ancillary equipment (bows, tarps, security screen, troop seats, catwalk, etc. as required for the applicable configuration) installed and in the deployed position.

##### 4.5 Consignee

4.5.1 For the purpose of this Contract the Consignees are as follows:

- i - **LFAA EFCC**  
EFCC CFB Gagetown  
Building B7  
Nashwaak Ave  
Station FORCES  
Oromocto, NB. H2V 4J5
- ii - **SQFT EFCC**  
BFC Valcartier  
Bat 7 CCMSÉ/EFCC  
CP1000 Succ Forces  
Courcellette QC. G0A 4Z0
- iii - **LFCA EFCC**  
MAJOR EQPT  
Building H110  
255 Montgomery Rd  
CFB Petawawa, On. K8H 2X3
- iv - **LFWA EFCC**

v - Edmonton Garrison  
1 Svc Sup Coy CMTT  
195 ave & Rhine Rd (83 st)  
Bldg 236, West end door 6  
Edmonton, AB. T5J 4J5  
**25 CFSD EFCC**  
25 CF Supply Depot Montreal  
National Fielding Coordination Centre  
Montreal, QC. H1N 3R9

#### **4.6 Quality Assurance Authority (DND) - Canadian-based Contractor**

- 4.6.1 All work is subject to Government Quality Assurance performed at the Contractor's or subcontractor's facility, and at the installation site, by the Director of Quality Assurance, or its designated Quality Assurance Representative (QAR).

Director of Quality Assurance  
National Defence Headquarters  
MGen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: [ContractAdmin.DQA@forces.gc.ca](mailto:ContractAdmin.DQA@forces.gc.ca)

- 4.6.2 Within forty-eight (48) hours of contract award, the Contractor must contact the QAR. The name, location and phone number of the QAR can be obtained from the nearest National Defence Quality Assurance Region (NDQAR) listed below:

Atlantic - Halifax 902-427-7224 or 902-427-7150  
Quebec - Montreal 514-732-4410 or 514-732-4477  
Quebec - Quebec City 418-694-5998, ext. 5996  
National Capital Region - Ottawa 819-994-8973  
Ontario - Toronto 416-635-4404, ext. 6081 or 6075  
Ontario - London 519-964-5757  
Manitoba/Saskatchewan - Winnipeg 204-833-2500, ext. 6574  
Alberta - Calgary 403-410-2320, ext. 3830  
Alberta - Edmonton 780-973-4011, ext. 2276  
British Columbia - Vancouver 604-225-2520, ext. 2460  
British Columbia - Victoria 250-363-5662

- 4.6.3 The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the material or services provided conform to the requirements of the Contract.
- 4.6.4 The Contractor must provide, at no additional cost, all applicable test data, all technical data, test pieces and samples as may reasonably be required by the QAR to verify conformity to the requirements of the Contract. The Contractor must forward at its expense such technical data, test data, test pieces and samples to such location as the QAR may direct.
- 4.6.5 Quality control, inspection and test records that substantiate conformity to the specified requirements, including records of corrective actions, must be retained by the Contractor for three (3) years from the date of completion or termination of the Contract and must be made available to the QAR upon request.

#### **4.7 Quality Assurance Authority (DND) - Foreign-based and United States Contractor**

- 4.7.1 All work is subject to Government Quality Assurance performed at the Contractor's or subcontractor's facility, and at the installation site, by the Director of Quality Assurance, or its designated Quality Assurance Representative (QAR).

Director of Quality Assurance

National Defence Headquarters  
Major-General George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: [ContractAdmin.DQA@forces.gc.ca](mailto:ContractAdmin.DQA@forces.gc.ca)

- 4.7.2 If the Contractor has not been contacted by the QAR performing GQA in the Contractor's facility or area within forty-five (45) working days of award of the Contract, the Contractor must notify the Contracting Authority.
- 4.7.3 Where no official arrangements for mutual GQA have been concluded, the Department of National Defence will arrange for the GQA services to be conducted by a National Quality Assurance Authority acceptable to the Director of Quality Assurance. If the GQA services must be provided on a cost-recovery basis, the costs for the services must be accrued against the Contract and be discharged through separate invoicing.
- 4.7.4 The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the materiel or services provided conform to the requirements of the Contract.
- 4.7.5 The Contractor must provide, at no additional cost, all applicable test data, all technical data, test pieces and samples as may reasonably be required by the QAR to verify conformity to the requirements of the Contract. The Contractor must forward at its expense such technical data, test data, test pieces and samples to such location as the QAR may direct.
- 4.7.6 Quality control, inspection and test records that substantiate conformity to the specified requirements, including records of corrective actions, must be retained by the Contractor for three (3) years from the date of completion or termination of the Contract and must be made available to the QAR upon request.

#### **4.8 ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)**

- 4.8.1 In the performance of the Work described in the Contract, the Contractor must comply with the requirements of:
- 4.8.2 ISO 9001:2008 - Quality management systems - Requirements, published by the International Organization for Standardization (ISO), current edition at date of submission of Contractor's bid.
- 4.8.3 It is not intended that the Contractor be registered to ISO 9001; however, the Contractor's quality management system must address all requirements appropriate to the scope of the Work. Only exclusions in accordance with clause 1.2 of ISO 9001 are acceptable.
- 4.8.4 Assistance for Government Quality Assurance (GQA)
  - 4.8.4.1 The Contractor must provide the Quality Assurance Representative (QAR) with the accommodation and facilities required for the proper accomplishment of GQA and must provide any assistance required by the QAR for evaluation, verification, validation, documentation or release of product.
  - 4.8.4.2 The QAR must have the right of access to any area of the Contractor's or subcontractor's facilities where any part of the Work is being performed. The QAR must be afforded unrestricted opportunity to evaluate and verify Contractor conformity with quality system procedures and to validate product conformity with the requirements of the Contract. The Contractor must make available for reasonable use by the QAR the equipment necessary for all validation purposes. Contractor personnel must be made available for operation of such equipment as required.
  - 4.8.4.3 When the QAR determines that GQA is required at a subcontractor's facilities, the Contractor must provide for this in the purchasing document and forward copies to the QAR, together with relevant technical data as the QAR may request.
  - 4.8.4.4 The Contractor must notify the QAR of non-conforming product received from a subcontractor when the product has been subject to GQA.

- 4.8.4.5 For the design, development or maintenance of software, the Contractor must interpret the requirements of ISO 9001:2008 "Quality management systems - Requirements", according to the guidelines of the latest issue (at contract date) of ISO/IEC 90003:2004 "Software engineering - Guidelines for the application of ISO 9001:2000 to computer software".

#### 4.8.5 Quality Plan (SACC D-5402C)

The Contractor must submit for acceptance by the Department of National Defence (DND) a Quality Plan prepared according to the latest issue (at contract date) of *ISO 10005:2005 "Quality management systems - Guidelines for quality plans"* IAW CDRL DID SMP-SE-003. The Quality Plan must describe how the Contractor will conform to the specified quality requirements of the Contract and specify how the required quality activities are to be carried out, including quality assurance of subcontractors. The Contractor must include a traceability matrix from the elements of the specified quality requirements to the corresponding paragraphs in the Quality Plan.

The documents referenced in the Quality Plan must be made available when requested by Public Works and Government Services Canada or DND.

If the Quality Plan was submitted as part of the bidding process, the Contractor must review and, where appropriate, revise the submitted plan to reflect any changes in requirements or planning which may have occurred as a result of pre-contract negotiations.

Upon acceptance of the Quality Plan by DND, the Contractor must implement the Quality Plan. The Contractor must make appropriate amendments to the Quality Plan throughout the term of the contract to reflect current and planned quality activities. Amendments to the Quality Plan must be acceptable to DND.

If the Contract includes the option for software design, development or maintenance of software, the Contractor must interpret the requirements of *ISO 9001:2008 "Quality management systems - Requirements"*, according to the guidelines of the latest issue (at contract date) of *ISO/IEC 90003:2004 "Software engineering - Guidelines for the application of ISO 9001:2000 to computer software"*.

#### 4.9 Non Destructive Testing

- 4.9.1 Canada reserves the right to access any Vehicle, APS and Trailer, while in the Contractor's possession to perform Non Destructive Testing during the production, modification, maintenance or any part of the repair cycle. The Contractor must support and assist Canada to the maximum extent possible.

#### 4.10 Not Used

#### 4.11 Inspection and Acceptance

- 4.11.1 The Technical Authority is the Inspection Authority. All reports, Deliverable End-Items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.
- 4.11.2 Final Acceptance will be performed IAW the procedures detailed in Annex I- Acceptance Procedures.
- 4.11.3 Inspection by the Inspection Authority will not relieve the Contractor from responsibility to meet the requirements of the Contract.

#### **4.12 Release Documents (DND)**

##### **4.12.1 Release Documents (DND) – Foreign-based Contractor**

4.12.1.1 Material must be released for shipment using a Certificate of Conformity in accordance with NATO STANAG 4107 which must be prepared by the Contractor.

##### **4.12.2 Release Documents (DND) – United States-based Contractor**

4.12.2.1 Material must be released for shipment using a DD Form 250, Material Inspection and Receiving Report, or a release document containing the same information and acceptable to the Quality Assurance Representative. The Contractor must prepare the release document(s).

##### **4.12.3 Release Documents (DND) – Canadian-based Contractor**

4.12.3.1 Unless otherwise directed by the Department of National Defence (DND) Quality Assurance Authority, the signature of the DND Quality Assurance Representative on the release document is not required.

4.12.3.2 Material must be released for shipment using either DND form CF 1280, Certificate of Release, Inspection and Acceptance, or a release document containing the same information. The Contractor must prepare the release document(s).

#### **4.13 Release Documents – Distribution**

4.13.1 The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- a) One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b) Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c) One (1) copy to the Contracting Authority;
- d) One (1) copy to:

National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attention: \_\_\_\_\_

- e) One (1) copy to the Quality Assurance Representative;
- f) One (1) copy to the Contractor; and
- g) For all non-Canadian contractors, one (1) copy to:

DQA/Contract Administration  
National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: ContractAdmin.DQA@forces.gc.ca.

#### **4.14 Canadian Customs Documentation (DND importer only)**

##### **General**

4.14.1 The Contractor must provide two (2) copies of the Canada Customs Invoice (CCI) or two (2) copies of the commercial invoice marked "For Customs Purposes Only".

4.14.2 For shipments from the United States and Mexico that are of American, Mexican or Canadian origin, as defined by the North American Free Trade Agreement (NAFTA), and for shipments from Israel that are Israeli in origin, as defined by the Canada-Israel Free Trade Agreement (CIFTA), the Contractor must provide proof of origin of the goods. This proof must be in the form of a NAFTA or CIFTA Certificate of Origin for goods valued at C\$1,600 or more, or a simple statement on the invoice for goods valued at C\$1,600 or

less. In either case, the document must include an original signature and must reference the contract number. For contracts valued at C\$250,000 or more, the proof of origin will not be required.

- 4.14.3 The Contractor must not employ commercial customs brokers to custom clear the goods provided under the Contract, unless authorized by the Canadian Material Support Group / Customs, at National Defence Headquarters, telephone: 1-855-210-5149, facsimile: 1-800-306-1811 or 613-971-7333.

Completion of Documents

- 4.14.4 The CCI or commercial invoice must include the following information:
- (a) complete description of the goods being shipped, including the applicable United States "Schedule B" codes or United States Harmonized Tariff Schedule codes;
  - (b) value and terms of sale for each item (e.g. sale, loan, warranty, Incoterms 2000), including value of repairs, warranty repairs and/or replacement costs;
  - (c) the Contract number and financial codes (use Field 3 on the CCI form);
  - (d) country of origin of goods; and
  - (e) when a NAFTA Certificate of Origin has been prepared, the "Description" field of the CCI or commercial invoice must include a statement confirming that it has been completed and is attached to that invoice.

Distribution of Documents

- 4.14.5 The Contractor must attach the following to shipping container No. 1 of all shipments using a waterproof envelope marked "Canada Customs Documentation":
- (a) one (1) copy of the CCI or one (1) copy of the commercial invoice as applicable, and;
  - (b) one (1) copy of the NAFTA Certificate of Origin (if applicable).
- 4.14.6 The second copy of each of the above-mentioned forms must be attached to the shipping documents.
- 4.14.7 A copy of the CIFTA Certificate of Origin must be faxed to 1-800-306-1811 or emailed to DCBSCustoms@forces.gc.ca.

**4.15 Palletization**

- 4.15.1 For all shipments exceeding 0.566 m<sup>3</sup> or 15.88 kg (20 ft<sup>3</sup> or 35 lbs), except for the Vehicles, APS, Trailers and items shipped by courier, the following applies:
- 4.15.1.1 The Contractor must strap, and if necessary wrap, shipments on standard 1.22 m x 1.02 m (48 in. x 40 in.) wood pallets. The four-way forklift entry pallet must be supplied at no charge to Department of National Defence. Total height, including pallet, must not exceed 1.19 m (47 in.). The pallet load must not extend further than 2.54 cm (1 in.) from any edge of the pallet.
  - 4.15.1.2 The Contractor must group items by stock number (on the same pallet) within consolidated shipments. Pallet loads composed of more than one stock number must be marked as "MIXED ITEMS".
  - 4.15.1.3 Individual items exceeding 1.22 m (48 in.) in length or 453.6 kg (1000 lbs) must be secured to larger pallets or must have 10.16 cm x 10.16 cm (4 in. x 4 in.) skids securely fastened to the bottom of the item. Skids must be separated by a minimum of 71.12 cm (28 in.).
- 4.15.2 Any exception requires the prior approval of the Contracting Authority.

**4.16 Condition of Material**

- 4.16.1 The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date and must be approved by the DND Technical Authority.

**4.17 Wood Packaging Materials**

- 4.17.1 All wood packaging materials used in international shipping must conform to the "Guidelines for Regulating Wood Packaging Material in International Trade" - ISPM 15



(International Standards for Phytosanitary Measures -  
<https://www.ippc.int/index.php?id=13399> ).

- 4.17.2 Pertinent additional information on Canada's import and export programs is provided in the following Canadian Food Inspection Agency policy directives:  
D-98-08 - Entry Requirements for Wood Packaging Materials Produced in All Areas Other Than the Continental United States  
(<http://www.inspection.gc.ca/english/plaveg/protect/dir/d-98-08e.shtml> ); and  
D-01-05 - The Canadian Wood Packaging Certification Program (CWPCP)  
(<http://www.inspection.gc.ca/english/plaveg/protect/dir/d-01-05e.shtml>).

#### **4.18 Full Interchangeability**

- 4.18.1 Unless changes during the production run are expressly authorized pursuant to Article 1.8, Changes in the Work, or engineering change proposal, as applicable, all Vehicles submitted for delivery pursuant to any Deliverable under this Contract must be of the same make and model and all assemblies, sub assemblies and parts, must be fully interchangeable. This is also applicable to the delivery of Trailers and APS.

#### **4.19 Total System Responsibility**

- 4.19.1 The Contractor must complete all Work necessary to achieve total system responsibility to permit the Deliverable End-Items to perform in full compliance with the requirements of this Contract. Total System responsibility includes, but is not limited to:
- 4.19.1.1 Total system integration which includes the task of aggregating, interconnecting and making compatible all the Deliverables, including any associated equipment, so as to fulfill the requirements of this Contract;
  - 4.19.1.2 Production and integration of all sub-systems;
  - 4.19.1.3 Testing and quality assurance;
  - 4.19.1.4 Placement and supervision of subcontracts;
  - 4.19.1.5 Adequacy of training devices and associated training courses to fully train qualified personnel to operate and maintain the Vehicles, Trailers, APS and Associated Equipment;
  - 4.19.1.6 Compatibility of all support equipment; and
  - 4.19.1.7 Compatibility of spare parts with the equipment or component for which they are designed.
- 4.19.2 The Contractor must do all that is necessary to meet the requirements of this Article without being entitled to any additional payment or extension in delivery time.

### **5 GOVERNMENT PROPERTY**

#### **5.1 Care of Government Property**

- 5.1.1 Title to Government Property must remain vested in Canada at all times and the Contractor must not lien, charge or encumber, nor cause to be subject to lien, charged or encumbered, any Government Property in its possession or control;
- 5.1.2 The Contractor must keep all Government Property in its possession or control insured under the provisions of Article 7.3 Insurance with provision for loss payable to Canada.
- 5.1.3 The Contractor must, whenever identify, tag all Government Property as being the property of Canada;
- 5.1.4 Canada will provide the Contractor with the Government Property listed in Appendix BF, at the times and places set out in the Contract;
- 5.1.5 The Contractor must return to Canada, on demand, any Government Property listed in Appendix BF, except for that demilitarized, installed or incorporated into the Work, and consumable items. Return of Government Property as listed in Appendix BF, at the request of Canada, must be deemed to be an event described in 2030 Section 11, Excusable Delay;
- 5.1.6 The Contractor must maintain adequate inventory of all Government Property. At the request of the CA, the Contractor must provide a complete inventory list of all Government Property relating to the Contract to the CA; and

- 5.1.7 The Contractor must reimburse Canada any cost or expenses due to the damage or loss caused by the negligence of the Contractor, to Government property or must, upon reasonable notice, promptly repair such damage or substitute such loss to Canada's satisfaction.

## **5.2 DND Loaned Property**

- 5.2.1 If required, a loan agreement will be put in place 30 Days after Contract award to cover equipment owned by Canada and supplied to the Contractor.
- 5.2.2 If, during the course of this Contract, the Contractor identifies equipment or information owned by Canada, the use of which might be beneficial to the Work of this Contract, the Contractor may submit a request for such equipment or information to be added to the Loan Agreement. Canada will determine and advise the Contractor whether, and the terms upon which, such equipment or information can be provided. If such a loan is agreed, Canada will deliver to the Contractor such equipment or information at the times and places and upon the other terms agreed.
- 5.2.3 A copy of the Loan Agreement is attached to this Contract at Appendix BG.

## **5.3 Government Furnished Equipment (GFE)**

- 5.3.1 GFE means equipment, other than Government Supplied Material (GSM), which Canada provides to the Contractor for use to carry out the Work. If during the course of this Contract, the Contractor identifies equipment required for the purposes of the Contract, the Contractor may submit a request to Canada. Canada will determine and advise the Contractor whether, it is prepared to provide such equipment. Once the terms of the loans agreement are agreed, Canada will endeavour to deliver to the Contractor such equipment at the times and places and upon the other terms agreed. GFE is "government issue" within the meaning of Section 16 of the Defence Production Act, R.S.C. 1970, c. D-2.
- 5.3.2 Upon delivery of any item of GFE to its premises or to any other location specified by the Contractor, the Contractor must forthwith inspect it IAW the Quality Assurance program for defects or deficiencies and, in the event such are discovered, must inform the CA. The CA and the Contractor must jointly determine corrective measures to be taken by either party and the consequences, if any, to the Contract Delivery Date and the Contract Price.
- 5.3.3 Notwithstanding any other provision of this Contract, any failure of Canada to provide GFE by the times or otherwise IAW the requirements stated herein must be deemed to be an event described in 2030 Section 11, Excusable Delay.

## **5.4 Government Furnished Information (GFI)**

- 5.4.1 GFI means information and any Data that Canada provides to the Contractor during the course of this Contract. All Canada's right, title and interest to GFI must remain vested always in Canada and the Contractor must maintain it free and clear of all claims, liens, charges and encumbrances. GFI is "government issue" within the meaning of Section 16 of the Defence Production Act, R.S.C. 1970, c. D-2.
- 5.4.2 If, during the course of this Contract, additional requirements for information available to Canada are identified by the Contractor, the Contractor may submit requests for such information to the CA and the CA will determine and advise the Contractor whether, and the terms upon which, such information can be provided. Canada will endeavour to provide to the Contractor such information at the times and places and upon the other terms agreed.
- 5.4.3 Notwithstanding any other provision of this Contract, any failure of Canada to provide GFI by the times or otherwise IAW the requirements stated herein will be deemed to be an event described in 2030 Section 11, Excusable Delay.

## **5.5 Government Supplied Material (GSM)**

- 5.5.1 GSM means any material that Canada has undertaken in this Contract to deliver to the Contractor for incorporation in Deliverable End Items and that is listed in Appendix BF. All of Canada's right, title and interest to all GSM remains always vested in Canada, free and clear of all claims, liens, charges and encumbrances.

- 5.5.2 Any and all loss or damage to GSM while it is in the possession of, or otherwise under the control of, the Contractor will be the responsibility of the Contractor. GSM is "government issue" within the meaning of Section 16 of the Defence Production Act, R.S.C. 1970, c. D-2 and the Contractor will maintain it free of all claims, liens, charges and encumbrances.
- 5.5.3 Upon delivery of any item of GSM to its premises or to any other location specified by the Contractor, the Contractor will forthwith inspect it IAW the Quality Assurance program for defects or deficiencies and, in the event such are discovered, must inform the CA. The CA and the Contractor will jointly determine corrective measures to be taken by either party and the consequences, if any, to the Contract Delivery Date and the Contract Price. The Contractor prior to incorporation in a Vehicle or other Deliverable End Item must properly store GSM. All GSM supplied by Canada for inclusion in a Vehicle must be installed by, or have satisfactory stowage onboard provided by, the Contractor.
- 5.5.4 Notwithstanding any other provisions of this Contract, Canada's obligation to provide GSM is restricted to this Article and to the items set forth in Appendix BF.
- 5.5.5 Any failure of Canada to provide GSM listed in Appendix BF by the times specified in this Contract or otherwise IAW the requirements stated herein, must be deemed to be an event described in 2030 Section 11, Excusable Delay.
- 5.5.6 If the delivery date for any Deliverable End Item is extended for any reason, the latest date by which Canada must deliver items in Appendix BF, will be adjusted appropriately to reflect the date on which the Contractor requires the GSM.

## **5.6 Canadian Forces Site Regulations**

- 5.6.1 The Contractor must comply with all standing orders or other regulations, instructions and directives in force on the site where the Work is performed.

## **6 ENVIRONMENTAL**

### **6.1 Dangerous Goods/Hazardous Products**

- 6.1.1 The Contractor must mark dangerous goods/hazardous products material which is classed as dangerous / hazardous as follows:
- 6.1.1.1 Shipping container - in accordance with the Transportation of Dangerous Goods Act, 1992, c. 34; and
  - 6.1.1.2 Immediate product container - in accordance with the Hazardous Products Act, R.S., 1985, c. H-3.
- 6.1.2 The Contractor must provide bilingual Material Safety Data Sheets, indicating the NATO Stock Number as follows:
- a) two (2) hard copies:
    - one (1) copy to be enclosed with the shipment, and
    - one (1) copy to be mailed to:  
National Defence Headquarters  
MGen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, Ontario K1A 0K2  
Attention: DSCO 5-4-2
  - b) one (1) copy sent by email to the following address: MSDS-  
FS@FORCES.GC.CA in word processing format (i.e. MS Word or WordPerfect).
- 6.1.3 The Contractor will be responsible for any damages caused by improper packaging, labeling or carriage of goods/products.
- 6.1.4 The Contractor must ensure they adhere to all levels of regulations regarding dangerous goods/hazardous products as set forth by federal, provincial and municipal laws and by-laws.
- 6.1.5 The Contractor must contact the consignee (i.e. Supply Depot Traffic Section) at least 48 hours before shipping dangerous goods/hazardous products in order to schedule a receiving time.

- 6.1.6 Canada Labour Code, Part II dictates that the least hazardous products should be used at the workplace. Therefore, the Contractor is to strive to use the least hazardous product that meets the requisite performance requirements.
- 6.1.7 The Contractor must clearly mark all merchandise labels with the percentage of volume that is a hazardous item. Failure to do so will result in the Contractor being held responsible for damages caused in the movement of goods/products by government vehicles or government personnel.

## **6.2 Environmental – General**

- 6.2.1 Environmental Health and Safety (EHS) considerations must be incorporated and documented into the decision making process for the Work performed under this Contract. EHS documentation must be maintained within the Contractor's project file throughout the life of the vehicle/equipment.
- 6.2.2 The Contractor must comply with DND policies, orders, directives and best practices when accessing DND owned or controlled lands, buildings or equipment.
- 6.2.3 In this Article, the following definition will apply:
  - 6.2.3.1 "Controlled Products" are products, substances, materials, or wastes that are banned, being phased out, regulated or restricted under any applicable law, including the following:
    - a) Regulated and proposed to be regulated under the Canadian Environmental Protection Act (CEPA):
    - b) listed in Schedule 1, Toxic Substances under CEPA
    - c) targeted Chemicals subject to the National Pollutant Release Inventory
    - d) targeted by the Chemical Management Plan
    - e) targeted by the Chemical Management Plan - List of Challenge Substances;
    - f) targeted under the Accelerated Reduction/Elimination of Toxic Substances (ARET) Program.
  - 6.2.3.2 "Environmental Health and Safety (EHS)" is the consideration of environmental impacts and the health and safety implications of those impacts resulting from the designs and upgrades to the system, this does not include the application of aspects from the OHSAS 18001 standard in the development and deployment of those designs and upgrades.

## **6.3 Environmental Management System (EMS) Requirement (ISO 14001)**

- 6.3.1 The Contractor must have a management system in place to control environmental, health and safety impacts resulting from their activities, products or services. ISO 14001 is a benchmark for an effective environmental management system applicable to all types and sizes of organizations. Certification to this standard is preferred but not necessary. The Contractor must, however, have a formalized set of procedures and control measures in place to achieve conformance with the requirements of this Work, while ensuring environmental, health and safety protection and pollution prevention. The Technical Authority will have the right to make examinations and such audits of the Work and control processes/procedures and infrastructure with respect to the environmental, health and safety management system as they may think fit.
- 6.3.2 The Contractor must keep accurate and complete EHS records, which must, upon request, be made available to the Technical or Inspection Authority, who may only view such documents. During the performance of the Contract and for any period of time thereafter provided in the Contract request for copies of any document must be made formally to the Contractor.
- 6.3.3 The EMS requirement is applicable to the Contractor, and any and all subcontractors that may provide support to the Contract requirements. The Contractor must make reasonable effort to monitor that all subcontractors are in compliance with applicable environmental laws and regulations.

#### **6.4 Controlled Products**

- 6.4.1 The use of any new controlled products, as part of the Work under this Contract, must be submitted for review and approval through the Technical Authority before use. The use of controlled products must be reviewed in consultation with Technical Authority, to determine whether replacement by other less hazardous controlled products (IAW the Canada Labour Code, Part II) that meet performance requirements can be utilized, and if so, to replace these controlled products with products of less hazard. It is DND policy to eliminate the use of Controlled Products and to comply with all legislated and regulated requirements. The promulgation of new or amended legislations, regulations, policies or directives throughout this Contract period may necessitate changes to support processes and activities. These changes must be incorporated as required to ensure compliance throughout the contract period, as specified at Section 20 of the General Conditions 2030.
- 6.4.2 Halocarbon Based Fire Extinguishing Systems. All contracted Work on halon fire extinguishing systems must be performed in compliance with the Federal Halocarbon Regulations, 2003 (FHR, 2003) and DND Policy (ED 4003-5, Halocarbon Management). For situations where fire extinguishing systems and equipment are maintained through contracts, the Contractor must be certified by the Underwriters' Laboratory of Canada (ULC) to the appropriate service category. The Work must be performed to ULC/ORD standard C1058.18 1993, entitled The Servicing of Halon Fire Extinguishers.
- 6.4.3 Halocarbon based Air-Conditioning/Refrigeration Systems. Similarly, all refrigerant/air-conditioning systems containing FHR, 2003 regulated substances must be maintained in compliance with regulation (FHR, 2003).
- 6.4.4 WHMIS Regulation. The Contractor must label and ship goods falling within the Hazardous Products Act, R.S.C. 1985, C. H-3 and regulation(s) there under IAW the said Act and regulation(s) accompanied by the Material Safety Data Sheet(s) completed in English or French, as specified at Article 6.1 – Dangerous Goods/Hazardous Products.
- 6.4.5 Hazardous Waste Disposal. The Contractor will have full responsibility for disposal of any hazardous waste removed or uncovered in the performance of the Work except when the Work is performed at a DND facility, in which case, title to such waste will pass to the Contractor as soon as the Contractor takes possession of the waste, and the Contractor must dispose of such waste IAW the requirements of the Contract, if any, and IAW Section 20 of the General Conditions 2030.
- 6.4.6 Controlled Products Listing. As part of any subcontract/sublet requirement raised by the Contractor in support of the Work, the subcontract/sublet will include a clause for the use of the least hazardous Controlled Product necessary, while maintaining operation effectiveness. Controlled Products that are banned must not be used. When a Controlled Product must be used, the Contractor must provide justification for its use. The Contractor is required to supply the Technical Authority with the respective Material Safety Data Sheets for all hazardous material products listed.
- 6.4.7 Controlled Products Instructions. The Contractor must ensure that appropriate instruction regarding the handling, use, transportation and disposal of Controlled Products are contained in documentation.

#### **6.5 EHS Compliance**

- 6.5.1 Publications: New or amended publications must incorporate appropriate EHS warnings and instructions in direct relation of the EHS risks presented in the contents.

#### **6.6 Radioactive Material**

- 6.6.1 The Contractor must report all radioactive materials, which are in schedule quantities as provided for in the Atomic Energy Control Act and Regulations..

### **7 GENERAL TERMS AND CONDITIONS**

#### **7.1 Copyright Provisions**

- 7.1.1 The Contractor must provide copyrighted documents as follows:

- 7.1.1.1 Contractor Publications. Canada reserves the right to reproduce, in whole or in part, all publications procured under this Contract. Supply of publications must include a royalty-free, irrevocable license with rights to reproduce, modify and translate into English and French with the limitation that the data must not be released outside the Canadian Government or designated agents operating on behalf of the Canadian Government if the Contractor so states.
- 7.1.1.2 Vendor Publications. If the publication package contains publications obtained by the Contractor from a vendor or sub-vendor, the Contractor must accept responsibility for the content validity of such publications and be responsible for obtaining any proprietary and copyright release or license from the vendor or sub-vendor.
- 7.1.1.3 Figures and Illustrations. The Contractor must provide reproducible copies of all figures and illustrations in original artwork and electronic form (tif), capable of printing to produce clear and legible copies. Supply of illustrations must include a royalty-free, irrevocable license with rights to reproduce, modify and translate into English and French with the limitation that the illustrations must not be released outside the Canadian Government or designated agents operating on behalf of the Canadian Government if the Contractor so states.

## **7.2 Applicable Laws**

- 7.2.1 The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario, Canada.

## **7.3 Insurance**

- 7.3.1 The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

## **7.4 Deleted**

## **7.5 Certifications**

- 7.5.1 Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## **7.6 Controlled Goods**

- 7.6.1 The contract involves controlled goods as defined by the Controlled Goods Regulations of the *Defence Production Act*. The Contractor must identify those controlled goods to the Department of National Defence.

## **7.7 Controlled Goods Program**

- 7.7.1 As the Contract requires production of or access to controlled goods that are subject to the *Defence Production Act*, R.S. 1985, c. D-1, the Contractor and any subcontractor are advised that, within Canada, only persons who are registered, exempt or excluded under the Controlled Goods Program (CGP) are lawfully entitled to examine, possess or transfer controlled goods. Details on how to register under the CGP are available at: <http://www.cgp.gc.ca>.
- 7.7.2 When the Contractor and any subcontractor proposed to examine, possess or transfer controlled goods are not registered, exempt or excluded under the CGP at time of contract award, the Contractor and any subcontractor must, within seven (7) working days from receipt of written notification of the contract award, ensure that the required application(s)

for registration or exemption are submitted to the CGP. No examination, possession or transfer of controlled goods must be performed until the Contractor has provided proof, satisfactory to the Contracting Authority, that the Contractor and any subcontractor are registered, exempt or excluded under the CGP.

- 7.7.3 Failure of the Contractor to provide proof, satisfactory to the Contracting Authority, that the Contractor and any subcontractor are registered, exempt or excluded under the CGP, within thirty (30) days from receipt of written notification of contract award, will be considered a default under the Contract except to the extent that Canada is responsible for the failure due to delay in processing the application.
- 7.7.4 The Contractor and any subcontractor must maintain registration, exemption or exclusion from the CGP for the duration of the Contract and in any event for so long as they will examine, possess or transfer controlled goods.

## **7.8 Foreign Nationals**

### **7.8.1 Foreign Nationals (Canadian Contractor)**

7.8.1.1 The Contractor must comply with Canadian immigration requirements applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Service Canada regional office to enquire about Citizenship and Immigration Canada's requirements to issue a temporary work permit to a foreign national. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

OR

### **7.8.2 Foreign Nationals (Foreign Contractor)**

7.8.2.1 The Contractor must comply with Canadian immigration legislation applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Canadian Embassy, Consulate or High Commission in the Contractor's country to obtain instructions, information on Citizenship and Immigration Canada's requirements and any required documents. The Contractor is responsible to ensure that foreign nationals have the required information, documents and authorizations before performing any work under the Contract in Canada. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

## **7.9 Dispute Resolution**

- 7.9.1 Any dispute between the Parties will be decided in the first instance by the Contracting Authority who will, within 15 Days of a request, deliver a written decision explaining the reasons to the Contractor. The decision of the Contracting Authority will be binding for all purposes of this Contract unless the Contractor delivers a Notice disputing it to the Contracting Authority within 30 days after receipt of the written decision.
- 7.9.2 In the event that the Contractor wishes to dispute a decision of the Contracting Authority the Contractor must submit the dispute for determination by the Director, Major Projects – Land, Directorate of PWGSC, who will have 60 days after receipt of such Notice to deliver a Notice of his decision to the Contractor and such decision will be final and binding on the Parties, subject, however, to the provisions of Sub-article 7.9.3.
- 7.9.3 If the decision of the said Director is still unsatisfactory to the Contractor, it may then take such actions or proceedings as it considers appropriate, including without limiting the foregoing, all suits, remedies, rights and entitlements and, if mutually agreeable to the Parties, arbitration that would otherwise have been immediately available to the Contractor but for this Article.
- 7.9.4 Notwithstanding action pursuant to Sub-article 7.9.3, the Contractor will proceed diligently with the performance of the Work in accordance with the decision of the Contracting Authority pending the disposition of the dispute, subject to equitable adjustment of the

Contract Price and other affected provisions of this Contract in the event that the decision is incorrect and affects the cost to the Contractor of the Work or affects other provisions of this Contract. The Contractor will not stop nor suspend the Work, or any part thereof, except that part of the Work suspended by the Minister pursuant to Article 29, Suspension of the Work, of the 2030 General Conditions, or terminated by the Minister pursuant to Article 30, Default by the Contractor, or Article 31, Termination for Convenience, of the 2030 General Conditions.

#### **7.10 Priority of Documents**

7.10.1 If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list;

- a) The Articles of the Agreement;
- b) Annex E - Supplemental general conditions 4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information, as amended by the Articles of the Agreement;
- c) Annex D- General conditions 2030 (2012-11-19) General Conditions - Higher Complexity – Goods; as amended by the Articles of the Agreement;
- d) Annex A – SRCL;
- e) Annex B – Statement of Work and its Appendices;

In the event of a discrepancy between the wordings of any referenced documents that appears on the list below, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- 1. Annex B – Statement of Work, including appendices and tables;
- 2. NATO standards;
- 3. DND standards;
- 4. U.S. Federal Specifications;
- 5. U.S. Military Specifications, and
- 6. Industrial Specifications.
- f) Annex C – Price and Delivery;
- g) Annex F – Industrial and Regional Benefits Requirements;
- h) Annex I – Acceptance Procedures;
- i) Annex H – Forms;
- j) Annex G – Certification of Defence Supplies; and
- k) The Contractor's bid dated \_\_\_\_\_

#### **7.11 Contract Closeout**

7.11.1 The Contractor must return all documentation, GSM not incorporated into the Work, GFI and GFE, provided by Canada during the course of the Contract within six (6) months of completion of the Contract, or earlier if so requested by the CA.

#### **7.12 Ceremonies and Announcements**

7.12.1 The Contractor must not make any public announcement or instigate or engage in any public ceremony in connection with any of the Work without the prior written consent of the Contracting Authority.

7.12.2 Canada reserves the right to release, at any time, the names and locations of subcontractors and suppliers, an estimate of the number of jobs created and/or maintained, the work involved, where the work will be performed, and the approximate values of the subcontracts and Canadian Content Values.

7.12.3 To the extent possible, Canada will provide the Contractor the opportunity to review any such releases for accuracy and/or sensitivity.

#### **7.13 End-User Certificate**

7.13.1 Canada certifies that the goods, services or both ordered under the Contract are purchased by Canada for the exclusive use of the Canadian Forces.





## **STANDARD MILITARY PATTERN (SMP)**

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

Request For Proposal  
W8476-06MSMP/L

Part 7  
Annex A  
Security Requirement Check List (SRCL)



Government of Canada  
Gouvernement du Canada

Contract Number / Numéro du contrat W8476-06MSMP/001 - AL 2 Amendement 001
Security Classification / Classification de sécurité

SECURITY REQUIREMENTS CHECK LIST (SRCL)  
LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

<b>PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE</b>	
1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine DND	2. Branch or Directorate / Direction générale ou Direction DGMPD/PMO MSVS
3. a) Subcontract Number / Numéro du contrat de sous-traitance N/A	3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant N/A
4. Brief Description of Work / Brève description du travail Acquisition of standard Military Pattern Vehicles in support of Medium Support Vehicle Systems (MSVS) project, which has been identified as a Major Crown Project.	
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées? <input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui	
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques? <input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui	
6. Indicate the type of access required / Indiquer le type d'accès requis	
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c) <input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui	
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé. <input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit? <input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès	
Canada <input checked="" type="checkbox"/>	NATO / OTAN <input type="checkbox"/>
Foreign / Étranger <input type="checkbox"/>	
7. b) Release restrictions / Restrictions relatives à la diffusion	
No release restrictions Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	All NATO countries Tous les pays de l'OTAN <input type="checkbox"/>
Not releasable À ne pas diffuser <input type="checkbox"/>	
Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:
7. c) Level of information / Niveau d'information	
PROTECTED A PROTÉGÉ A <input checked="" type="checkbox"/>	NATO UNCLASSIFIED NATO NON CLASSIFIÉ <input type="checkbox"/>
PROTECTED B PROTÉGÉ B <input type="checkbox"/>	NATO RESTRICTED NATO DIFFUSION RESTREINTE <input type="checkbox"/>
PROTECTED C PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL NATO CONFIDENTIEL <input type="checkbox"/>
CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/>	NATO SECRET NATO SECRET <input type="checkbox"/>
SECRET SECRET <input checked="" type="checkbox"/>	COSMIC TOP SECRET COSMIC TRÈS SECRET <input type="checkbox"/>
TOP SECRET TRÈS SECRET <input type="checkbox"/>	
TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/>	

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

Canada





Government  
of Canada

Gouvernement  
du Canada

Contract Number / Numéro du contrat  
W8476-06MSMP/001 - AL 2 Amendment 001

Security Classification / Classification de sécurité

**PART A (continued) / PARTIE A (suite)**

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?  
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes  
Non Oui

If Yes, indicate the level of sensitivity:

Dans l'affirmative, indiquer le niveau de sensibilité :

9. Will the supplier require access to extremely sensitive INFOSEC information or assets?  
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No ☐ Yes  
Non Oui

Short Title(s) of material / Titre(s) abrégé(s) du matériel :

Document Number / Numéro du document :

**PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)**

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

<input checked="" type="checkbox"/> RELIABILITY STATUS COTE DE FIABILITÉ	<input type="checkbox"/> CONFIDENTIAL CONFIDENTIEL	<input checked="" type="checkbox"/> SECRET SECRET	<input type="checkbox"/> TOP SECRET TRÈS SECRET
<input type="checkbox"/> TOP SECRET - SIGINT TRÈS SECRET - SIGINT	<input type="checkbox"/> NATO CONFIDENTIAL NATO CONFIDENTIEL	<input type="checkbox"/> NATO SECRET NATO SECRET	<input type="checkbox"/> COSMIC TOP SECRET COSMIC TRÈS SECRET
<input type="checkbox"/> SITE ACCESS ACCÈS AUX EMPLACEMENTS			

Special comments:

Commentaires spéciaux : See Security Classification Guide attached

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.

REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?  
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☐ No ☒ Yes  
Non Oui

If Yes, will unscreened personnel be escorted?  
Dans l'affirmative, le personnel en question sera-t-il escorté? ☐ No ☒ Yes  
Non Oui

**PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)**

**INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS**

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?  
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☐ No ☒ Yes  
Non Oui

11. b) Will the supplier be required to safeguard COMSEC information or assets?  
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☒ No ☐ Yes  
Non Oui

**PRODUCTION**

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?  
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☐ No ☒ Yes  
Non Oui

**INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)**

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?  
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes  
Non Oui

11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?  
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ No ☐ Yes  
Non Oui

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

Canada





Government of Canada  
Gouvernement du Canada

Contract Number / Numéro du contrat
W8476-06MSMP/001 - AL 2 Amendment 001
Security Classification / Classification de sécurité

**PART C - (continued) / PARTIE C - (suite)**

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.  
Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions.  
Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

**SUMMARY CHART / TABLEAU RÉCAPITULATIF**

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET	COMSEC TOP SECRET COMSEC TRÈS SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET TRÈS SECRET
											A	B	C			
Information / Assets Renseignements / Biens					✓											
Production					✓											
IT Media / Support TI																
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?

La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No  
Non ☐ Yes  
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".  
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?

La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No  
Non ☐ Yes  
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).  
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquez qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B – STATEMENT OF WORK

ID	SMP - Annex B - Statement of Work
SOW-1	<b>1 INTRODUCTION</b>
SOW-138	<b>1.1 Scope</b>
SOW-137	This Statement of Work (SOW) defines the Work to be performed by the Contractor in fulfilment of this Contract.
SOW-139	<b>1.2 SOW Layout</b>
SOW-140	The following sections, appendices, attachments and schedules form part of this SOW:
SOW-985	Section 1 - Introduction
SOW-986	Section 2 - Administration
SOW-987	Section 3 - Project Management
SOW-988	Section 4 - Systems Engineering
SOW-989	Section 5 - Integrated Logistics Support
SOW-997	SMP Appendix BA - Vehicle Performance Requirements
SOW-1283	SMP Attachment BA-1 - Standard Kit and Equipment SMP Schedule BA-1 – Vehicle Payload and Centre of Gravity SMP Schedule BA-2 – Gladhand Configuration and Nomenclature
SOW-1285	SMP Attachment BA-2 - Standard Kit and Equipment – Photos
SOW-1286	SMP Attachment BA-3 - Electronic Equipment Requirements
SOW-1828	SMP Schedule BA-3-1 - Electronic Equipment Installation for Vehicle Without APS
SOW-1829	SMP Schedule BA-3-2 - Electronic Equipment Installation for Vehicle With APS
SOW-1830	SMP Schedule BA-3-3 - EMI/EMC And RF Safety Testing Of MSVS SMP Variants
SOW-1831	SMP Schedule BA-3-4 - Mounting Provision for Radio Rack
SOW-1832	SMP Schedule BA-3-5 - Mounting Provision for ECM
SOW-1287	SMP Attachment BA-4 - Towed Equipment
SOW-1288	SMP Attachment BA-5 - Gun Tractor Variant Requirements
SOW-1289	SMP Attachment BA-6 - Armour Protection System Requirements
SOW-1834	SMP Schedule BA-6-1 - MSVS APS Survivability Testing Methodology
SOW-1290	SMP Attachment BA-7 - Cargo Variant Requirements SMP Schedule BA-7-1 – Access Ladder and Steering Interface Requirements SMP Schedule BA-7-2 – S280 \ 12ft General Purpose Shelter Interface Requirements
SOW-1291	SMP Attachment BA-8 - Load Handling System Variant Requirements
SOW-1292	SMP Attachment BA-9 - Cargo with Crane Variant Requirements
SOW-1293	SMP Attachment BA-10 - Winch Requirements

ID	SMP - Annex B - Statement of Work
SOW-1294	SMP Attachment BA-11 - Load Handling System Trailer Requirements SMP Schedule BA-11-1 – Load Handling System Trailer Centre of Gravity Envelope SMP Schedule BA-11-2 – Gladhand Configuration and Nomenclature
SOW-1295	SMP Attachment BA-12 - Trailer Standard Kit and Equipment
SOW-1842	SMP Attachment BA-13 – Not Used
SOW-1847	SMP Attachment BA-14 - Mobile Repair Truck (MRT) Variant Requirements
SOW-990	SMP Appendix BB – DRMS Master Data Guidelines for Army Fleets
SOW-998	SMP Appendix BC - IETM Specification
SOW-1300	SMP Attachment BC-1 - IETM Functionality Matrix
SOW-1002	SMP Appendix BD - Mission Profile
SOW-1301	SMP Attachment BD-1 - Mission Profile
SOW-999	SMP Appendix BE - Contract Data (CDRL, DIDs)
SOW-1826	SMP Attachment BE-1 - Contract Data Requirements List (CDRL)
SOW-1827	SMP Attachment BE-2 - Data Item Descriptions (DIDs)
SOW-1001	SMP Appendix BF - Government Supplied Material (GSM), Government Furnished Equipment (GFE) and Government Furnished Information (GFI)
SOW-1003	SMP Appendix BG - Loan Agreement
SOW-1004	SMP Appendix BH - List of References, Glossary and Abbreviations
SOW-1818	SMP Appendix BI - CF Vehicle Technician Tool List
SOW-1835	SMP Appendix BJ - SMP Schedule Constraints
SOW-1737	<b>1.3 Definitions</b>
SOW-1758	Definitions and acronyms applicable to the SOW are listed in Appendix BH.
SOW-141	<b>1.4 Terminology</b>
SOW-772	The 'Vehicle' stated herein comprises the following configurations: a. Configuration A - Cargo Variant; b. Configuration B - Cargo with Crane Variant; c. Configuration C - Gun Tractor Variant; d. Configuration D - Load Handling System Variant; and e. Configuration E - Mobile Repair Truck (MRT) Variant.
SOW-773	The Armour Protection System is referred as the 'APS' and the Load Handling System Trailer is referred as the 'Trailer'.
SOW-1817	<b>1.5 Design Requirements Documents</b>



ID	SMP - Annex B - Statement of Work
SOW-1373	Design requirements common to all variants are stated in: <ul style="list-style-type: none"> <li>a. SMP Appendix BA - Vehicle Performance Requirements;</li> <li>b. SMP Attachment BA-1 - Standard Kit and Equipment;</li> <li>c. SMP Attachment BA-2 - Standard Kit and Equipment - Photos;</li> <li>d. SMP Attachment BA-3 - Electronic Equipment Requirements; and</li> <li>e. SMP Attachment BA-4 - Towed Equipment.</li> </ul>
SOW-1374	Design requirements specific to each variant (refer to CLINs in Annex C) are stated in: <ul style="list-style-type: none"> <li>a. Configuration "A" - Cargo Variant in accordance with SMP Attachment BA-7 - Cargo Variant Requirements;</li> <li>b. Configuration "B" - Cargo with Crane Variant in accordance with SMP Attachment BA-9 - Cargo with Crane Variant Requirements, and SMP Attachment BA-10 - Winch Requirements;</li> <li>c. Configuration "C" - Gun Tractor Variant in accordance with SMP Attachment BA-5 - Gun Tractor Variant Requirements, and SMP Attachment BA-10 - Winch Requirements; and</li> <li>d. Configuration "D" - Load Handling System Variant in accordance with SMP Attachment BA-8 - Load Handling System (LHS) Variant Requirements.</li> <li>e. Configuration "E" - Mobile Repair Truck (MRT) Variant in accordance with SMP Attachment BA-14 - Mobile Repair Truck (MRT) Variant Requirements and SMP Attachment BA-10 - Winch Requirements.</li> </ul>
SOW-1375	Design Requirements for the APS are stated in SMP Attachment BA-6, Armour Protection System Requirements.
SOW-1376	Design Requirements for the trailer are stated in SMP Appendix BA - Vehicle Performance Requirements, SMP Attachment BA-11 - Load Handling System (LHS) Trailer Requirements, and SMP Attachment BA-12 - Trailer Standard Kit and Equipment.
SOW-1099	<b>1.6 Supplementary Production Vehicle, Armour Protection System (APS) and Trailer Delivery Requirements</b>
SOW-1100	The Contractor shall deliver each production Vehicle, APS, and Trailer with all equipment in accordance with Annex C, Contract Deliverables List, and in accordance with SMP Appendix BA, Vehicle Performance Requirements and its corresponding attachments.
SOW-1170	The Contractor shall install all equipment on each production Vehicle, APS and Trailer prior to delivery with the exception of the tire chains.
SOW-1191	The Contractor shall deliver the APS separately from the Vehicles.
SOW-1282	The Contractor shall prepare and install on each Vehicle (qty 2) and Trailer (qty 1) a Canadian Forces Registration (CFR) license plate(s) IAW DND Drawing 373038. The decals and license plates will be provided as Government Supplied Materiel (GSM) IAW Appendix BF. The license plate number shall be selected from the block of CFR numbers that will be provided to the Contractor. The licence plates shall be installed on the Vehicles and Trailers prior to delivery and the CFR / VIN information shall be included on the delivery documentation / invoice.
SOW-1819	The Contractor shall provide the Vehicle with all Standard Kit and Equipment as indicated in SMP Appendix BA, SMP Attachment BA-1 - Standard Kit and Equipment that are identified as "To be included with Vehicle" in the Remarks column.
SOW-1143	<b>1.7 Equivalent Standards or Parts</b>
SOW-1142	The Contractor may propose a standard or part equivalent to the standard or part specified in the SOW. In such cases, the Contractor shall provide information to the TA that demonstrates to the satisfaction of the TA that the intent and rigour of the specified standard or part will be attained.
SOW-1144	The Contractor shall prepare and submit an Equivalence Justification Report IAW CDRL SMP-SE-015 and DID SMP-SE-015 for each specified standard or part where equivalence is being sought.

ID	SMP - Annex B - Statement of Work
SOW-1145	The Contractor shall comply with the equivalent standard or part approved in the final Equivalence Justification Report. Use of an equivalent standard or part prior to the approval by the TA of that standard or part will be at the Contractor's own risk.
SOW-2	<b>2 ADMINISTRATION</b>
SOW-1108	<b>2.1 Applicable Documents</b>
SOW-991	The documents referenced in this SOW are applicable only to the extent specified herein. Unless otherwise specified, the issue or amendment of documents applicable to this SOW shall be those in effect on 1 October 2011. In the event of a conflict between the documents referenced herein and the contents of the SOW, the contents of the SOW shall take precedence.
SOW-992	In the event of any inconsistency within this SOW, the Contractor shall request clarification from the Technical Authority (TA), through the Contracting Authority (CA).
SOW-1303	<b>2.1.1 Not Used</b>
SOW-1305	<b>2.1.2 Other Documents</b>
SOW-1306	The documents referenced in Sections 1.6 through 1.17 of SMP Appendix BH are available publicly and will not be provided by Canada.
SOW-1110	<b>2.2 Deliverable Data</b>
SOW-1111	The Contractor shall prepare and deliver, to Canada's satisfaction, all data specified in the Contract Data Requirements List (CDRL) and in each Data Item Description (DID) in accordance with instructions contained in SMP Appendix BE, SMP Attachment BE-1 and SMP Attachment BE-2 respectively.
SOW-1095	The descriptions and field contents of the CDRL and DIDs are contained in SMP Appendix BE.
SOW-1411	As required, the Contractor shall revise and resubmit all data specified within the CDRLs and DIDs within 15 working days of receipt of Canada's comments, unless specified otherwise.
SOW-1113	The Contractor shall maintain and revise all data specified within the CDRLs and DIDs as necessary to reflect approved changes to the contract.
SOW-1121	Canada will use various Contractor data items, deliverables, meetings, reviews, etc. to conduct its activities, including preparing for design reviews, technical reviews and Progress Review Meetings (PRMs). In the event that the Contractor fails to deliver associated deliverables in accordance with the CDRL, or fails to conduct associated precursor activities, Canada may insist on its full review periods which could delay the subsequent review or PRMs. Any such delay will be at the Contractor's own risk.
SOW-1366	<b>2.3 Delivery of Data</b>
SOW-1367	The Contractor shall produce and deliver data specified within the CDRLs and DIDs using MS Office (saved in a version compatible with MS Office 2003) for documents and MS Project (saved in a version compatible with MS Project 2003) for schedules.
SOW-1368	Selected data items identified in the CDRL are to be delivered via the Electronic Information Environment (EIE). The requirement for and the functionality of the EIE is defined in Annex B of the In-Service Support Contract. The Contractor shall notify the CA that the data deliverable is available on the EIE for review, approval, or information as applicable.

ID	SMP - Annex B - Statement of Work
SOW-1369	The Contractor shall notify the CA whenever a data item cannot be delivered via the EIE and propose an alternative interim means of delivery. Use of an alternate means of delivery shall not preclude compliance with the delivery date for the respective data item. The Contractor shall post the data item on the EIE when it is possible.
SOW-1377	The Contractor shall make available to Canada any or all Contractor policies and procedures, or other data that are referred to in this SOW or in the Contractor's data items, whenever a request is received from Canada. The Contractor shall make data requested available through EIE within five working days of receiving a request.
SOW-1379	Canada will notify the Contractor within 15 working days of the effective date of this Contract, the points of delivery for the data deliverables. Such notice will include the name, organization, job title, postal and e-mail addresses, telephone and facsimile numbers. Canada may, by notice, change these delivery addresses at any time.
SOW-1383	The Contractor shall notify the CA, at the kick-off meeting, the points of delivery for Canada's responses. Such notice shall include the name, organization, job title, postal and e-mail addresses, telephone and facsimile numbers. The Contractor may, by notice, change these delivery addresses at any time.
SOW-3	<b>3 PROJECT MANAGEMENT</b>
SOW-1015	<b>3.1 Project Management Program</b>
SOW-1020	The Contractor shall provide a Project Management capability to manage the project scope, schedule, risks, and quality, to provide data and to administer the requirements of the contract, to interface and co-ordinate with Canada, and to plan and control the work of subcontractors as required.
SOW-1790	The Contractor shall co-ordinate the activities of the Acquisition and ISS Contracts so that the outcomes of one are supportive and consistent with the other.
SOW-1021	<b>3.2 Project Manager</b>
SOW-1022	The Contractor shall provide a Project Manager with sufficient authority within the Contractor's organization to manage all work required under the contract.
SOW-1023	<b>3.3 Project Management Plan (PMP)</b>
SOW-1024	The Contractor shall prepare, submit and implement the Project Management Plan (PMP) IAW CDRL SMP-PM-001 and DID SMP-PM-001, once approved.
SOW-1032	<b>3.4 Project Scheduling</b>
SOW-1033	The Contractor shall prepare and deliver a Master Project Schedule (MPS) IAW CDRL SMP-PM-003 and DID SMP-PM-003.
SOW-1034	The Contractor shall baseline the schedule at the first PRM and thereafter manage, track and report actual progress against the baseline.
SOW-1036	The Contractor shall obtain written approval from Canada prior to revising the baseline schedule.
SOW-1370	Changes to the schedule shall not preclude compliance with the requirements of the CDRL. In the event that the schedule is accelerated, CDRL timings shall be adjusted accordingly.
SOW-1037	<b>3.5 Meetings</b>

ID	SMP - Annex B - Statement of Work
SOW-1115	<b>3.5.1 General</b>
SOW-1118	Meetings will be convened at the Contractor's facility, unless stated otherwise in the SOW, or at an alternate location as agreed to by the Contractor and the CA.
SOW-1039	The Contractor shall provide a facility, cleared to the appropriate security level, of a size sufficient to accommodate the attendees.
SOW-1041	The meetings will be co-chaired by Canada and the Contractor, unless specified otherwise.
SOW-1119	The Contractor or Canada, by mutual agreement, can convene video or telephone conferences in lieu of face-to-face meetings.
SOW-1128	Meetings shall be scheduled just before or after PRMs, whenever possible.
SOW-1129	Site visits and meetings shall be combined whenever possible.
SOW-1120	The Contractor shall ensure that specific personnel responsible for work under discussion are physically present at the meetings.
SOW-1126	The Contractor shall prepare and submit a Meeting Agenda and presentation slides in advance for all meetings including the Kick-off Meeting, PRMs, Working Groups, Reviews and Conferences in accordance with CDRL SMP-PM-004 and DID SMP-PM-004.
SOW-1127	The Contractor shall prepare and submit Meeting Minutes for all meetings including the Kick-off Meeting, PRMs, Working Groups, Reviews and Conferences in accordance with CDRL SMP-PM-005 and DID SMP-PM-005.
SOW-1071	<b>3.5.2 Kick-Off Meeting</b>
SOW-1043	The Contractor shall convene a Kick-Off Meeting with Canada no later than 14 calendar days after contract award.
SOW-1123	The purpose of the Kick-Off Meeting is to review and clarify project requirements. The Kick-Off Meeting shall address, as a minimum, the following items: <ul style="list-style-type: none"> <li>a. Contractor briefing on the company and how it will be organized to manage the contract;</li> <li>b. Roles and responsibilities of key personnel and points of contact;</li> <li>c. Key contract terms;</li> <li>d. Timelines, to include confirmation of the Contractor's proposed dates: (i) to be ready for APS Survivability Testing (i.e. by when the Test Articles can be delivered to the test location); (ii) to commence delivery; and (iii) the delivery period.</li> <li>e. Deliverables;</li> <li>f. Communications - Procedures for monitoring and reporting progress;</li> <li>g. Procedures for managing risks and issues;</li> <li>h. Contract administration and contract change procedures;</li> <li>i. Review of all draft plans submitted with bid; and</li> <li>j. Plant tour, if possible.</li> </ul>
SOW-1044	<b>3.5.3 Progress Review Meetings (PRMs)</b>
SOW-1045	The Contractor shall schedule, plan and organize PRMs.
SOW-1046	The Contractor shall convene the first PRM within 45 calendar days following contract award, then monthly until 15 Months After Final Design Acceptance (MAFDA), and then quarterly thereafter.

ID	SMP - Annex B - Statement of Work
SOW-1067	Each PRM shall address, as a minimum, the following items: a. Project Progress; b. Master Project Schedule; c. Progress in all SOW areas including an explanation of any schedule, cost or performance variation and the corrective action being taken since the last reporting period; d. Status of deliverables including deliverable data; e. Project Risks, associated mitigation, impact timeframe, contingency plan; f. Action Items tracking and status updates from previous PRMs, other meetings and correspondence; f. Engineering and Technical Issues; g. Integrated Logistics Support (ILS) Issues; h. Contractual Issues; i. Financial Issues; j. Activities planned for the next reporting period; and k. Such other items as may be required to affect the Contractor's solution or that the Contractor considers relevant to the Work.
SOW-1048	The Contractor shall coordinate with the CA for all arrangements related to PRMs.
SOW-1049	<b>3.5.4 Other Meetings</b>
SOW-1134	The Contractor shall convene weekly meetings to report progress, address technical issues, raise questions and seek clarification. These meetings will be conducted by teleconference, videoconference or as mutually agreed between the Contractor and Canada.
SOW-1050	The Contractor and/or Canada may schedule reviews, such as conferences, briefings and technical meetings, including those specifically required in the SOW, to help in achieving the requirements of the contract.
SOW-1136	<b>3.5.5 Risk Tracking</b>
SOW-1138	The Contractor shall input and manage all risks identified by the Contractor and Canada in accordance with the Contractor's risk management process, and IAW PMBOK guidelines.
SOW-1137	The Contractor shall maintain a Risk Register IAW CDRL SMP-PM-006 and DID SMP-PM-006 and make the register available to Canada through the Electronic Information Environment (EIE).
SOW-1131	<b>3.5.6 Action Items</b>
SOW-1125	The Contractor shall record action items arising from meetings, reviews or correspondence.
SOW-1140	The Contractor shall maintain an Action Item Log IAW CDRL SMP-PM-007 and DID SMP-PM-007 and make the log available to Canada through the EIE.
SOW-1141	The Contractor shall take action to address and complete the action items that are assigned to the Contractor, by the date specified.
SOW-1065	<b>3.6 Progress Reports</b>
SOW-1066	The Contractor shall provide Progress Reports IAW CDRL SMP-PM-002 and DID SMP-PM-002.

ID	SMP - Annex B - Statement of Work
SOW-5	<b>4 SYSTEMS ENGINEERING</b>
SOW-10	<b>4.1 Scope - Systems Engineering</b>
SOW-134	This section describes the work to be performed by the Contractor in providing Canada with the Systems Engineering (SE) services necessary for the successful completion of the MSVS SMP contract.
SOW-1813	An overall schedule for the main activities to occur until the start of delivery of the Vehicles can be found at SMP Appendix BJ of this annex.
SOW-13	<b>4.1.1 Systems Engineering Management Concept</b>
SOW-14	The Contractor shall provide a Systems Engineering management program for the contract. The program shall include the resources, processes and policies necessary to ensure the Systems Engineering effort is properly controlled and documented for the duration of the contract. The program objectives shall be set to provide the following:
SOW-15	a. An effective Systems Engineering management structure encompassing engineering development, design, configuration management, testing and logistics support considerations;
SOW-16	b. an integrated design approach for each Vehicle variant, APS and Trailer aimed at meeting the performance and support requirements detailed in this Annex, including a comprehensive conformance and qualification testing program to ensure that each Vehicle variant, APS and Trailer design meets these requirements;
SOW-17	c. an effective means to transfer the TA accepted design, per the Final Design Acceptance (FDA), for each Vehicle variant, APS and Trailer into production;
SOW-18	d. an effective means of supporting the tests conducted by Canada; and
SOW-19	e. an effective Quality Management System based on ISO 9001:2008.
SOW-20	<b>4.1.2 Systems Engineering Management Plan (SEMP)</b>
SOW-21	The Contractor shall prepare, submit, and implement the Systems Engineering Management Plan (SEMP), once approved, which delineates the policies, procedures, and responsible personnel that will be employed to ensure that the systems engineering of the MSVS SMP Vehicle, APS and Trailer is properly controlled and documented for the duration of the contract. The plan shall be submitted to Canada for approval IAW CDRL SMP-SE-001 and DID SMP-SE-001.
SOW-22	<b>4.1.3 Systems Engineering Management Team (SEMT)</b>
SOW-23	The Contractor shall establish with the TA a joint SEMT that will meet regularly to discuss SE program progress and resolve issues as they arise. The SEMT may from time to time establish joint Canada/Contractor working groups to resolve detailed SE technical action items.
SOW-24	The SEMT and any working groups shall be staffed with appropriate SE personnel from the Contractor and Canada, and the team members shall have appropriate authority and expertise to make this forum effective.
SOW-25	The Contractor shall designate its SEMT members and ensure their attendance and participation in SEMT activities.
SOW-27	<b>4.1.3.1 SEMT Functions</b>
SOW-1836	The SEMT shall provide a forum to:
SOW-28	a. Examine design proposals and consider system performance trade-offs during systems integration;
SOW-29	b. Identify any aspects of the SE and production program which may adversely affect schedules, performance, or cost;

ID	SMP - Annex B - Statement of Work
SOW-30	c. Formulate approaches to resolving SE action items or potential issues to minimize impacts on the overall program;
SOW-31	d. Ensure that appropriate follow-up action is taken for each identified SE action item or potential issue;
SOW-32	e. Review and discuss the content of System Engineering deliverables as required;
SOW-33	f. Examine the engineering implications of Engineering Change Proposals (ECPs), Request For Deviations (RFDs), and Request For Waivers (RFWs) before they are submitted to the CA;
SOW-34	g. Review the results of the Contractor's Design Reviews; and
SOW-35	h. Seek design acceptance from the TA prior to design freeze for each Vehicle variant, APS and Trailer.
SOW-36	<b>4.1.3.2 SEMT Meetings</b>
SOW-1080	The initial SEMT Meeting shall be held during the contract Kick-Off Meeting for the purpose of organising the Contractor and Canada systems engineering management efforts. The planning conference should serve to achieve mutual understanding on Contractor and Canada responsibilities and to perform initial scheduling of key activities.
SOW-26	The SEMT Meetings shall be co-chaired by the MSVS System Engineering Manager (SEM), delegated DND personnel, and the Contractor SEM.
SOW-1076	Additional SEMT Meetings shall be held in conjunction with PRMs or as required.
SOW-1636	The Contractor shall plan and conduct additional SEMT Meetings as detailed in the SEMP, or as requested by the Contracting Authority (CA), for the purposes of reviewing and evaluating the progress of work.
SOW-38	<b>4.1.3.2.1 Coordination</b>
SOW-1081	The Contractor shall coordinate with the CA regarding all arrangements related to SEMT Meetings. Representatives of PWGSC, DND or other governmental authorities will participate as required by the agenda.
SOW-40	<b>4.1.3.2.2 Supporting Documentation</b>
SOW-1083	The Contractor shall provide supporting documentation, schedules, lists, agendas, minutes, test reports, drawings, specifications, design analysis and other pre and post review data as appropriate in support of the SEMT Meetings.
SOW-1085	Testing and evaluation results generated from the Technical Compliancy Program (TCP) may be used during SEMT Meetings and as well during Design Reviews.
SOW-43	<b>4.2 Design Reviews</b>
SOW-44	<b>4.2.1 Scheduling and Format</b>
SOW-45	The Contractor shall conduct Design Reviews as detailed in the SEMP. The Design Reviews shall begin with the Preliminary Design Review (PDR) and should be held monthly or at a frequency agreed upon by the Contractor and the TA until Final Design Acceptance (FDA).
SOW-1326	<b>4.2.2 Not Used</b>
SOW-46	<b>4.2.3 Preliminary Design Review (PDR)</b>

ID	SMP - Annex B - Statement of Work
SOW-47	The Contractor shall conduct a Preliminary Design Review (PDR), as indicated in the SEMP and the Master Project Schedule, within 45 days after contract award. The PDR shall be structured to provide guidance to the TA on determining the adequacy of the Contractor maintained and controlled top-level design documentation for each Vehicle variant, APS and Trailer. In particular for the APS, the Contractor shall during PDR provide the APS assessment in support of the APS Survivability Testing (see para 4.3.3), and is encouraged to ensure that it's Subject Matter Experts are available to confirm and/or expand upon the information being provided.
SOW-48	<b>4.2.4 Final Design Review (FDR)</b>
SOW-49	The Contractor shall conduct a Final Design Review (FDR), as indicated in the SEMP and the Master Project Schedule, within ten (10) months after contract award. The FDR shall be structured to provide the TA with a comprehensive and detailed understanding of the Contractor-maintained, Canada-approved baseline for each Vehicle variant, APS and Trailer.
SOW-50	<b>4.3 Compliance Testing and Evaluation</b>
SOW-1400	Compliance testing and evaluation, which will also include a User Trial, will be conducted to ensure all Vehicle, APS and Trailer technical and performance requirements are met and to ensure production quality assurance. The Requirements Verification (RV) column in SMP Appendix BA and its corresponding attachments indicates which party, the Contractor (denoted by CON) or Canada (denoted by CAN) shall be responsible for conducting the appropriate compliance testing and evaluation after contract award. Where the RV column shows "CON (TEST)", the Contractor must demonstrate the requirement is met via physical testing.
SOW-1762	All deficiencies identified during compliance testing and evaluation must be resolved to the satisfaction of the TA prior to FDA.
SOW-1703	<b>4.3.1 Integrated Test and Support Plan (ITSP)</b>
SOW-1704	The Contractor shall prepare, submit, and implement the Integrated Test and Support Plan (ITSP), once approved, based on the RV column in SMP Appendix BA and its corresponding attachments, describing the Contractor-conducted First Production Article Testing (FPAT) after contract award, and how the Contractor intends to support the Canada-conducted compliance testing and evaluation. The plan shall be submitted to Canada for approval IAW CDRL SMP-SE-011 and DID SMP-SE-011.
SOW-1644	In addition to the testing outlined above, Canada reserves the right to conduct compliance testing and evaluation at any time on any of the items comprising either the Vehicle, APS or Trailer to determine compliance with either the Contractor's design, manufacturing, or quality standards, or any other standard to which the item is to be manufactured. These activities will be conducted by Canada at a Canadian Forces Base or a Canada selected test facility on the First Production Articles after delivery to Canada.
SOW-1615	<b>4.3.2 Testing Coordination and Test Support</b>
SOW-58	The Contractor shall provide all the necessary testing coordination and test support during all phases of the compliance testing and evaluation. This support shall be in the form of Field Service Representatives (FSRs), fully functional and operational test articles, spares, manuals, Special Tools and Test Equipment (STTE), operator and maintenance training, and technical expertise.
SOW-1363	The Contractor shall deliver the test articles for compliance testing and evaluation IAW the timelines and destination points provided by Canada and agreed upon in the SEMP and ITSP. After completion of the tests, with the exception of the APS Survivability Test Articles, the Contractor shall recover all other test articles from the last test and evaluation site.
SOW-1846	Following the completion of the APS Survivability Testing, Canada will maintain possession of the APS Survivability Test Articles. At the request of Canada, the Contractor shall recover some or all of the APS Survivability Test Articles from the test location.



ID	SMP - Annex B - Statement of Work
SOW-1344	<b>4.3.3 APS Survivability Testing</b>
SOW-1468	Canada will conduct Survivability Testing of the APS at the Defence Research and Development Canada (DRDC) Valcartier, Québec. The Survivability Test Program will include the following tests (described in more detail below): Ballistic, Mine Blast, IED Fragmentation, IED Blast. Canada will conduct IED Blast and IED Fragmentation tests for characterization, regardless of whether the Contractor has responded to these rated requirements in their proposal. The testing will last approximately 2 months following the receipt of the Test Articles.
SOW-1505	At PDR, the Contractor shall provide to the TA, for approval, an assessment of the APS in order for DRDC to establish the detailed material and support requirements for the APS Survivability Testing. This assessment shall include, as a minimum, information on the APS design, configuration, dimensions, material, equipment placement, as well as all related support requirements (such as proper mounting of the APS to the vehicle chassis by actual cab mounting provisions, etc).
SOW-1470	The Contractor may send representatives with appropriate security levels to witness the testing.
SOW-1625	<b>4.3.3.1 APS Survivability Test Articles</b>
SOW-1851	The Contractor shall deliver to DRDC Valcartier the following Test Articles no later than the date as determined mutually by the Contractor (proposed) and the TA in conjunction with DRDC: <ul style="list-style-type: none"> <li>a. Two Engineered Vehicles as described in paragraph 4.3.3.1.1; and</li> <li>b. Test coupons as described in paragraphs 4.3.3.1.2 and 4.3.3.1.4.</li> </ul>
SOW-1862	<b>4.3.3.1.1 Engineered Vehicle</b>
SOW-1863	The Engineered Vehicle shall have the same geometry, structure (including seating and suspension systems), armour materials, and mass properties (mass, center of gravity, and moments of inertia) as the SMP production vehicle.
SOW-1865	The Engineered Vehicle shall have the following hardware: <ul style="list-style-type: none"> <li>a. Chassis;</li> <li>b. APS cab with belly/floor armour kit;</li> <li>c. Drive train parts such as wheels, axle assemblies, suspension, etc. shall be adjusted to respect the nominal ground clearance to a <b>Curb Weight (defined in Appendix BH); Canada reserves the right to add ballast weight to the cargo compartment up to the maximum Vehicle payload.</b>;</li> <li>d. Necessary components to stabilise the wheels and to allow the vehicle to be towed (including towing lugs/anchor points);</li> <li>e. All seats, seat restraints and foot rests as applicable;</li> <li>f. Spall liner/ballistic blankets as applicable;</li> <li>g. Any large equipment that can interfere with the seats and crew, e.g. battery boxes (or substituted components);</li> <li>h. All doors, hatches and ramps that may influence the results of the test;</li> <li>i. Engine, transmission, and transfer case (or substituted components);</li> <li>j. Add-on armour kit on upper walls and roof with pass-through for communications cables;</li> <li>k. Instruments and electronic equipment (or substituted components) secured with appropriate mounting provisions; and</li> <li>l. In-cab Stowage items (or substituted components) IAW Attachment BA-1- Standard Kit and Equipment (i.e. Fire-Extinguisher 2.5kg, Night Vision Goggles, ration box, NBC decontamination kit).</li> </ul>

ID	SMP - Annex B - Statement of Work
SOW-1506	<b>4.3.3.1.2 Ballistic</b>
SOW-1500	Canada will conduct Ballistic testing on Test Coupon Test Articles. The TA will advise the Contractor as to the quantity and configuration of Test Coupons to be delivered to DRDC, and as a minimum, the Test Coupons shall have the same armour material, construction technique, fixing and mounting method as the production vehicle.
SOW-1497	<b>4.3.3.1.3 Mine Blast</b>
SOW-1503	Canada will conduct Mine Blast testing on the first of the two Engineered Vehicle Test Articles.
SOW-1507	<b>4.3.3.1.4 IED Fragmentation (Lab and Field)</b>
SOW-1501	Canada will conduct IED Fragmentation (Lab) testing on Test Coupon Test Articles. The TA will advise the Contractor as to the quantity and configuration of Test Coupons to be delivered to DRDC, and as a minimum, the Test Coupons shall have the same armour material, construction technique, fixing and mounting method as the production vehicle. Canada will conduct IED Fragmentation (Field) testing on the second of the two Engineered Vehicle Test Articles (the same Test Article on which the IED Blast test will be conducted).
SOW-1508	<b>4.3.3.1.5 IED Blast</b>
SOW-1502	Canada will conduct IED Blast testing on the second of the two Engineered Vehicle Test Articles.
SOW-1852	<b>4.3.3.2 Test Schedule</b>
SOW-1698	The Contractor shall include the APS Survivability testing in its ITSP. Specific dates for the APS Survivability Testing will be confirmed and provided to the Contractor no later than 15 days prior to start of testing. Survivability Testing will commence no earlier than 3 MACA and no later than 6 MACA.
SOW-1509	<b>4.3.3.3 APS Survivability Test Plan</b>
SOW-1510	Canada will conduct the APS survivability testing as per NATO publications AEP-55 Vols 1 and 2 for ballistic and mine blast and for IED IAW the methodology and a selective set of classified settings described in SMP Attachment BA-6, SMP Schedule BA-6-1, MSVS APS Survivability Testing Methodology, and as applicable, based on the Contractor's IED Test Plan.
SOW-1512	<b>4.3.3.4 APS Survivability Test Report</b>
SOW-1513	Canada will provide preliminary test results of the APS survivability testing within 2 months following the completion of the Survivability Testing . A complete APS Survivability Test Report will be available within 5 months following the completion of the Survivability Testing.
SOW-1783	<b>4.3.4 First Production Article Testing (FPAT)</b>
SOW-1784	FPAT will be comprised of Contractor conducted tests and Canada conducted tests as detailed in the RV column in SMP Appendix BA and its corresponding attachments.
SOW-1609	<b>4.3.4.1 FPAT - Contractor Testing and Evaluation</b>

ID	SMP - Annex B - Statement of Work
SOW-1670	The Contractor shall conduct and complete the FPAT for the Vehicle, APS and Trailer in accordance with the approved ITSP. Any FPAT testing conducted in advance of approval of the ITSP is done so completely at the Contractor's risk.
SOW-1711	The Contractor conducted FPAT shall consist of verification, physical demonstration, and testing which will be used by Canada to confirm compliance to the technical and performance requirements in SMP Appendix BA and its corresponding attachments. As per the items identified in the RV column, the Contractor shall demonstrate through verification, physical demonstration, or testing (or a combination thereof) that the requirements are met to the satisfaction of the TA.
SOW-1672	<b>4.3.4.1.1 FPAT - Verification</b>
SOW-1437	The Contractor shall provide documentation such as engineering/production drawings, test reports, certificates, QA processes, manufacturing processes, inspection certificates, etc., that the TA can use to verify compliance with the requirements.
SOW-1673	<b>4.3.4.1.2 FPAT - Physical Demonstration</b>
SOW-55	The Contractor may use physical demonstrations witnessed by the TA to verify compliance with the requirements. The Contractor shall offer the TA the opportunity to witness all physical demonstrations and shall notify the TA at least 15 days in advance of such demonstrations.
SOW-1671	<b>4.3.4.1.3 FPAT - Test</b>
SOW-72	The Contractor may perform tests and submit the results to verify compliance with the requirements. The Contractor shall offer the TA the opportunity to witness all tests and shall notify the TA at least 7 days in advance of such tests.
SOW-1676	<b>4.3.4.1.4 FPAT Report</b>
SOW-1455	Upon completion of the Contractor-conducted portion of the FPAT, the Contractor shall prepare a FPAT Report IAW CDRL SMP-SE-002 and DID-SMP SE-002.
SOW-1642	<b>4.3.4.2 FPAT - Canada Testing and Evaluation</b>
SOW-1645	As per the items identified in the RV column, Canada will conduct the EMI/ EMC and RADHAZ Testing, Engine Emission Testing, and Vehicle and Trailer Brake Testing.
SOW-1760	<b>4.3.4.2.1 Test Articles</b>
SOW-1556	<p>The Contractor shall deliver the following First Production Article items, to the locations specified by Canada, no later than 30 days after Final Design Review in support of the Compliance Testing and Evaluation; these tests will be conducted in several different locations:</p> <ul style="list-style-type: none"> <li>a. Cargo Variant;</li> <li>b. Mobile Repair Truck (MRT) Variant;</li> <li>c. LHS Variant with APS installed; and</li> <li>d. Trailer.</li> </ul> <p>Note: The article items a., b., c. and d. listed above can be the same ones provided for User Trials (see SOW-1646).</p>
SOW-1800	<b>4.3.4.2.2 Test Schedule</b>

ID	SMP - Annex B - Statement of Work
SOW-1801	A preliminary overall test schedule for the FPAT-Canada Testing and Evaluation will be provided to the Contractor approximately 5 months after contract award. The date and location of each test will be confirmed and provided to the Contractor no later than 15 days prior to start of testing.
SOW-1656	<b>4.3.4.2.3 EMI/ EMC and RADHAZ Testing</b>
SOW-1575	Canada's EMI/EMC testing contractor will conduct the EMI/EMC and RADHAZ testing in compliance with the requirement of BA-659.
SOW-1696	The Contractor shall provide user familiarization training to Canada's EMI/EMC testing contractor covering all information required for the safe user operation of the Vehicle, including daily inspection procedures and checks.
SOW-1705	The Contractor shall include the EMI/EMC and RADHAZ testing in its ITSP. Specific dates for this testing shall be as mutually agreed upon by the Contractor and Canada in order to optimize test activities and the availability of testing facilities.
SOW-1844	The Contractor shall support and participate in the implementation of a Test and Evaluation (T&E) E3 Test Plan to meet the SMP requirements and to satisfy the schedule of the SMP acquisition. The Contractor shall ensure as part of their T&E effort that all of its participating organizations, managers and their interrelationships are identified.
SOW-1794	The Contractor shall support prototyping of the Electronic Equipment as per SMP Appendix BA, SMP Attachment BA-3 at the National Research Council in Ottawa, ON, Canada and testing at Canadian Forces Base (CFB) Petawawa, ON, Canada.
SOW-1795	<b>4.3.4.2.3.1 EMI/EMC and RADHAZ Test Plan</b>
SOW-1796	Canada will conduct the EMI/EMC and RADHAZ testing as per Appendix BA, SMP Attachment BA-3, SMP Schedule BA-3-3.
SOW-1797	<b>4.3.4.2.3.2 EMI/EMC and RADHAZ Test Report</b>
SOW-1798	Canada will provide preliminary test results of the EMI/EMC and RADHAZ testing approximately 2 weeks after testing has concluded. A complete EMI/EMC and RADHAZ Test Report will be available within 3 months following the completion of testing.
SOW-1663	<b>4.3.4.2.4 Engine Emissions Testing</b>
SOW-1684	Although the Contractor is required to validate the Engine Emissions requirements at BA-526 and BA-636, Canada reserves the right to conduct its own Engine Emissions Testing to validate the Contractor supplied data with regards to engine power using diesel fuel Such testing will be conducted within the Ottawa, ON region at an Environment Canada Facility. The Contractor may send representatives to witness the testing.
SOW-1688	The Contractor shall provide user familiarization training to the Environment Canada employees who will be conducting Engine Emissions Testing covering all information required for the safe user operation of the Vehicle, including daily inspection procedures and checks.
SOW-1689	The Contractor shall include the Engine Emissions Testing in its ITSP. Specific dates for the Engine Emissions Testing and the testing schedule shall be as mutually agreed upon by the Contractor and Canada in order to optimize test activities and the availability of testing facilities.
SOW-1666	<b>4.3.4.2.4.1 Engine Emissions Test Plan</b>
SOW-1686	The Engine Emissions Test Plan will be developed by Canada and will be provided to the Contractor for information, 15 days in advance of the Engine Emissions Testing.
SOW-1667	<b>4.3.4.2.4.2 Engine Emissions Test Report</b>
SOW-1687	Canada will provide the preliminary results of the Engine Emissions Test approximately 2 weeks after testing has concluded. Canada will provide the Engine Emissions Test Report approximately 3 months following completion of testing.

ID	SMP - Annex B - Statement of Work
SOW-1677	<b>4.3.4.2.5 Vehicle and Trailer Brake Testing</b>
SOW-1680	Canada will conduct the Vehicle and Trailer Brake Testing to validate the Contractor supplied data with regards to Vehicle and Trailer brake performance. Testing will be conducted within the Ottawa, Ontario or Montreal, Québec regions, by Transport Canada. The Contractor may send representatives to witness the testing.
SOW-1690	The Contractor shall provide user familiarization training to Transport Canada employees conducting the Vehicle and Trailer Brake Testing covering all information required for the safe user operation of the Vehicle and Trailer, including daily inspection procedures and checks.
SOW-1694	The Contractor shall include the Vehicle and Trailer Brake Testing in its ITSP. Specific dates for the Vehicle and Trailer Brake Testing shall be as mutually agreed upon by the Contractor and Canada in order to optimize test activities and the availability of testing facilities.
SOW-1682	<b>4.3.4.2.5.1 Vehicle and Trailer Brake Testing Plan</b>
SOW-1692	The Vehicle and Trailer Brake Test Plan will be developed by Canada and will be provided to the Contractor for information, 15 days in advance of the Vehicle and Trailer Brake Testing.
SOW-1683	<b>4.3.4.2.5.2 Vehicle and Trailer Brake Testing Report</b>
SOW-1693	Canada will provide the preliminary results of the Vehicle and Trailer Brake Testing approximately 2 weeks after testing has concluded. Canada will provide the Vehicle and Trailer Brake Test Report approximately 3 months following completion of testing.
SOW-1646	<b>4.3.5 User Trial Evaluation</b>
SOW-1547	Canada will conduct and complete a User Trial Evaluation as part of compliance testing and evaluation. The User Trial will be conducted after completion and acceptance of FPAT, unless otherwise approved by the TA. The User Trial will consist of operating the Vehicle, APS and Trailer IAW the Mission Profile, over approximately a 21 day period (7 days/week, 12 hrs/day, approx 5 000 km total), for repeated cycles to verify the suitability of the Vehicles, APS and Trailers for use in a military environment. The User Trial will also be used to validate the Vehicle, APS and Trailer for Human Factors (HF) suitability, and to validate that deficiencies identified in the pre-contract award HF trials have been resolved. The User Trial will be organized and scheduled by Canada and will be conducted at Canadian Forces Base (CFB) Gagetown, NB.
SOW-1548	The Contractor shall provide user driver familiarization training to Canadian Forces soldiers participating in the User Trial for all variants at the start of the User Trial to cover all information required for the safe user operation of the Vehicle IAW the Mission Profile, including daily inspection procedures and checks.
SOW-1549	The Contractor shall provide on-site technical and maintenance support, including tools, test equipment and parts, throughout the full period of the trial in order to address any Vehicle, APS and Trailer malfunctions, failures and deficiencies in the most expedient manner in order to minimize down time during the User Trial. The Contractor should have representatives present during the User Trial to witness the User Trial activities.
SOW-1550	The Contractor shall include User Trial evaluation in its ITSP. Specific dates for the User Trial shall be as mutually agreed upon by the Contractor and Canada in order to optimize test activities and the availability of testing facilities.
SOW-1792	<b>4.3.5.1 Test Articles</b>

ID	SMP - Annex B - Statement of Work
SOW-1793	<p>The Contractor shall deliver the following First Production Article items, to the location specified by Canada, in support of the User Trial:</p> <ul style="list-style-type: none"> <li>a. Cargo Variant;</li> <li>b. Mobile Repair Truck (MRT) Variant;</li> <li>c. LHS Variant with APS installed; and</li> <li>d. Trailer.</li> </ul> <p>Note: The articles listed above can be the same ones provided for the Canada conducted FPAT (see SOW-1642).</p>
SOW-1559	<b>4.3.5.2 User Trial Evaluation Test Plan</b>
SOW-1560	The User Trial Plan, developed by Canada, will be provided to the Contractor for information approximately 15 days in advance of the User Trial. The User Trial Plan will contain the description of usage, duration and cycle of each of the Vehicle variants, APS and Trailer.
SOW-1555	<b>4.3.5.3 User Trial Test Report</b>
SOW-1655	Preliminary results will be provided by Canada to the Contractor approximately two weeks after completion of the User Trial. A User Trial Report will be produced by Canada and will be provided to the Contractor within approximately 3 months of completion of the User Trial. The Contractor shall correct all identified deficiencies and failures prior to delivery of final equipment to Canada.
SOW-1669	<b>4.3.6 Non-Compliant Test Results</b>
SOW-1616	If at any time Canada conducts additional compliance testing and evaluation and finds the equipment to be non-compliant with the requirement, the Contractor shall rectify those items to ensure the requirement is met.
SOW-1714	<b>4.3.6.1 APS Survivability Testing - Non-Compliance</b>
SOW-1626	Failure to satisfy any of the APS survivability requirements shall require the Contractor to make all the necessary design and manufacturing changes to allow the APS to meet the requirement. The Contractor shall provide the necessary test articles for re-test.
SOW-1713	<b>4.3.6.2 Contractor and Canada FPAT Testing - Non-Compliance</b>
SOW-1610	The Contractor shall address the results of the FPAT testing including any documents used for verification purposes, or physical demonstrations that are determined to be non-compliant by the TA. A failed test shall require corrective action by the Contractor to achieve successful results on a re-test. When corrective action is required to achieve a pass on a specific item, the Contractor shall prove to the satisfaction of the TA that the corrective work did not negatively impact previously passed items before re-test is attempted. If it is clear that corrective work will impact previously passed items, the Contractor shall re-test those items, at the TA's discretion.
SOW-1716	<b>4.3.6.2.1 EMI/ EMC and RADHAZ Testing - Non-Compliance</b>
SOW-1717	Failure to satisfy any of the EMI/EMC and RADHAZ requirement of BA-659 will require the Contractor to make all the necessary design and manufacturing changes to allow the Vehicle, APS and Trailer to meet the requirement. The Contractor shall provide the necessary test articles for re-test.
SOW-1718	<b>4.3.6.2.2 Engine Emissions Testing - Non -Compliance</b>

ID	SMP - Annex B - Statement of Work
SOW-1719	Failure to satisfy any of the Emissions requirements shall require the Contractor to make all the necessary design and manufacturing changes to allow the Vehicle to meet the requirement. The Contractor shall provide the necessary test articles for re-test.
SOW-1721	<b>4.3.6.2.3 Vehicle and Trailer Brake Testing - Non-Compliance</b>
SOW-1722	Failure to satisfy any of the Vehicle and Trailer Brake requirements shall require the Contractor to make all the necessary design and manufacturing changes to allow the Vehicle and Trailer brake system to meet the requirement. The Contractor shall provide the necessary test articles for re-test.
SOW-1715	<b>4.3.6.3 User Trial Evaluation - Non-Compliance</b>
SOW-1611	Failure of any of the test articles during the User Trial Evaluation may, at the discretion of the TA, require a partial or complete User Trial Evaluation re-test for the failed test article(s). A re-test may be conducted, after corrective actions have been implemented and the Contractor has proven to the satisfaction of the TA that the corrective work did not negatively impact previously passed items. At Canada's discretion, a partial re-test may be conducted to validate the corrective actions. The Contractor shall provide the necessary test articles for re-test.
SOW-81	<b>4.4 Final Design Acceptance (FDA)</b>
SOW-82	<p>The Contractor shall request Final Design Acceptance (FDA) for each vehicle variant, APS, and Trailer in writing from Canada upon the successful completion of the compliance testing and evaluation program, and is should not start production work until such FDA has been received in writing. The production of the Vehicles, APS and Trailers shall be based on the designs accepted at FDA.</p> <p>Notwithstanding the granting of FDA by Canada, any SMP system, subsystem or component that is not fit for the original intended purpose will be unacceptable, notwithstanding the fact that it may meet all of the specified requirements. The overriding principle is that the SMP, its systems, subsystems and components must be capable of sustained, effective combat operations and must meet the peacetime usage requirements.</p>
SOW-86	<b>4.5 Quality Management</b>
SOW-87	<b>4.5.1 Quality System</b>
SOW-89	<p>The Contractor shall provide a Quality System in accordance with its in-house standard covering all aspects of design, development, production and delivery. The Quality System should be in compliance with ISO 9001:2008. At minimum, the QA process shall detail the validation, verification, test activities at various phases/stages of:</p> <ol style="list-style-type: none"> <li>Product development from Concept, Design, Manufacture, Assembly, Integration, Certification and Testing; and</li> <li>Product modifications, repairs, overhaul for the life of the vehicle fleet.</li> </ol>
SOW-90	The Contractor shall prepare, submit and implement the Quality Assurance Plan (QAP) IAW CDRL SMP-SE-003 and DID SMP-SE-003, IAW ISO 10 005:2005 once approved.
SOW-91	The Contractor shall provide the DND Quality Assurance Representative (QAR) with access to the Quality System, within 48 hours of receiving a visit request, to ensure the operations performed by the Contractor are in accordance with the processes and procedures detailed in the SEMP, QAP and as necessary to witness, sample or audit any equipment, facility, and work.
SOW-94	The Contractor shall provide corrective measures to the Quality System as requested by the DND QAR. The measures shall address any deficiencies from the prescribed or documented procedures or instances of poor practices which might have an adverse effect upon the quality of the Vehicle, APS or Trailer.

ID	SMP - Annex B - Statement of Work
SOW-95	<b>4.5.2 Quality Conformance (QC)</b>
SOW-100	The Contractor shall use a QC process to ensure quality control of the Vehicle, APS and Trailer IAW the QAP, including inspection and tests of various items and functions as agreed upon by the TA and the Contractor. The QC process shall be as detailed in the QAP and shall be accepted by the TA prior to the first Quality Conformance Inspection (QCI).
SOW-97	<b>4.5.2.1 Quality Conformance Inspection (QCI)</b>
SOW-96	The Contractor shall conduct Quality Conformance Inspections (QCI) as indicated in the QAP.
SOW-98	The Contractor shall, on each Vehicle, APS and Trailer produced, conduct a complete QCI. Canada may elect to participate in any QCI.
SOW-1804	The Contractor shall prepare a QCI report, in its own format, for each Vehicle, APS and Trailer produced.
SOW-1825	Canada reserves the right to perform a Non Destructive Inspection (NDI) on each Vehicle, APS and Trailer prior to delivery.
SOW-99	<b>4.5.2.2 Quality Conformance Testing (QCT)</b>
SOW-1623	The Contractor shall, upon request by the TA, perform testing on any production Vehicle, APS, or Trailer at randomly selected intervals of approximately one for every 100 Vehicles, one for every 10 APS, and one for every 50 Trailers as a means of additional assurance that the production Vehicles, APS or Trailers continue to meet all specifications per SMP Appendix BA and its corresponding attachments. Various methods to validate conformance may be employed including inspection, subsystem testing, certifications, observation, checks and physical or functional testing.
SOW-102	<b>4.5.2.3 QCT Report</b>
SOW-1622	The Contractor shall prepare a QCT Report IAW CDRL SMP-SE-014 and DID SMP-SE-014 for each QCT.
SOW-107	<b>4.5.2.4 Inspection, Examination or Test Failure</b>
SOW-108	If any Vehicle, APS or Trailer fails to pass any QCT as specified above, Canada will withhold acceptance until the Contractor has provided evidence that corrective action has been taken to correct deficiencies identified in the QCT Report. Failure of the Contractor to promptly remedy any defects or deficiencies noted either by the DND QAR or in a QCT Report shall be cause for suspension of acceptance of further production articles until corrective action has been approved by the TA, and implemented and documented by the Contractor. For production articles that have been produced prior to the identification of any noted deficiency, the Contractor shall take the necessary inspections and/ or corrective action to remedy any deficiency on those production items.
SOW-109	<b>4.6 Configuration Management (CM)</b>
SOW-110	The Contractor shall implement a Configuration Management (CM) program tailored to meet the requirements of this contract. The Contractor shall use ANSI EIA-649-A, National Consensus Standard for Configuration Management, as a source and reference document to form the basis for the CM program for this contract.  This CM Program shall be initiated upon contract award and shall be in place during the entire period of performance of this contract.



ID	SMP - Annex B - Statement of Work
SOW-111	The Contractor shall implement processes and procedures that address, as a minimum, the following CM functions: <ul style="list-style-type: none"> <li>a. Configuration Management Planning and Management;</li> <li>b. Configuration Identification;</li> <li>c. Configuration Change Management;</li> <li>d. Configuration Status Accounting; and</li> <li>e. Configuration Verification &amp; Audit.</li> </ul>
SOW-112	<b>4.6.1 Configuration Management Plan (CMP)</b>
SOW-113	The Contractor shall prepare, submit and implement the Configuration Management Plan (CMP) IAW CDRL SMP-SE-004 and DID SMP-SE-004, once approved.
SOW-114	<b>4.6.2 Configuration Identification</b>
SOW-115	The Contractor shall select and recommend Configuration Items (CIs) to Canada for approval. The Contractor shall ensure these CIs are based on the proposed product and the maintenance concept that is foreseen for the life of the equipment. If required, the Contractor shall propose amendments and updates to the CI list to match the support concept developed through the ILS Program. The Contractor shall add any new approved CIs to the list and shall amend the CM elements and deliverables accordingly.
SOW-116	<b>4.6.3 Configuration Change Management</b>
SOW-1805	The Contractor shall implement configuration change management of the Vehicle, APS, and Trailer throughout the duration of the contract based on the approved CMP.
SOW-118	<b>4.6.3.1 Engineering Change Proposal (ECP)</b>
SOW-119	The Contractor shall prepare and submit Engineering Change Proposals (ECPs) IAW CDRL SMP-SE-006 and DID SMP-SE-006 to Canada for review and approval.
SOW-1806	A copy of all approved and signed ECPs shall be submitted to Canada.
SOW-120	<b>4.6.3.2 Request for Deviation/Waiver (RFD/ RFW)</b>
SOW-121	The Contractor shall prepare and submit Requests for Deviation (RFD) and/or Requests for Waiver (RFW) IAW CDRL SMP-SE-007 and DID SMP-SE-007 to Canada for review and approval. A RFD describes a requested departure from a Contract requirement for a specified period of time and/or a specified number of units. A RFW obtains authorization to deliver non-conforming material which may not meet prescribed documentation but is suitable for use as is or after repair and/or retrofit.
SOW-122	<b>4.6.3.3 Specification Change Notice (SCN)</b>
SOW-123	The Contractor shall prepare and submit a Specification Change Notice (SCN) IAW CDRL SMP-SE-008 and DID SMP-SE-008 to describe changes to specification, drawings, associated lists and other documents following approval of an ECP.

ID	SMP - Annex B - Statement of Work
SOW-1175	A Specification Change Notice (SCN) shall be used to record and transmit approved change pages to an existing specification. Once the ECP has been approved, the SCN will provide official notice to holders of the specification that the attached change pages can be incorporated into their copy or copies of the specification.
SOW-124	<b>4.6.4 Configuration Status Accounting (CSA) Reports</b>
SOW-125	The Contractor shall prepare and submit Configuration Status Accounting (CSA) Reports IAW CDRL SMP-SE-009 and DID SMP-SE-009 to detail the Configuration Management (CM) activities.
SOW-126	<b>4.6.5 Configuration Verification &amp; Audit</b>
SOW-127	In accordance with the approved CM Plan, the Contractor shall identify, schedule, support and/or conduct the following configuration audits: a. Functional Configuration Audit (FCA); and b. Physical Configuration Audit (PCA). In order to maximize efficiency, the Contractor may consider conducting parts of these audits simultaneously with the Vehicle, APS and Trailer testing.
SOW-1808	The Contractor shall, upon request from the TA, conduct configuration audits at any given time.
SOW-128	<b>4.6.5.1 Configuration Audits Reports</b>
SOW-129	The Contractor shall prepare and submit sets of audit procedures for the FCA and PCA for Canada's approval and FCA and PCA Reports IAW CDRL SMP-SE-013 and DID SMP-SE-013.
SOW-1087	<b>4.7 Painting and Corrosion Protection Plan</b>
SOW-1089	The Contractor shall prepare, submit and implement a Painting and Corrosion Protection Plan IAW CDRL SMP-SE-012 and DID SMP-SE-012, once approved.
SOW-132	<b>4.8 Technical Data Package (TDP)</b>
SOW-133	The Contractor shall produce and maintain a Technical Data Package (TDP) comprised of LEVEL 3 drawings, as defined in D-01-400-002/SF-000, and shall contain the pertinent specifications, standards, quality insurance provisions, packaging data, and/or various types of samples, models and/or associated lists that will enable Canada to operate, manage, maintain, modify and support the Vehicle, APS, and Trailer throughout their lifecycle.
SOW-1809	The TDP shall depict the physical and functional characteristics of the Canada approved baseline Vehicle, APS, and Trailer configuration and their subordinate assemblies, subassemblies and parts thereof. The TDP elements shall include product drawings and associated lists, specifications and software documentation.
SOW-1811	The Contractor shall provide a general arrangement (GA) drawing for each configuration of the Vehicle (with and without APS) and Trailer at FDA plus two months. The drawing shall include front, rear, LH side, RH side and overhead views. The drawing shall include primary vehicle dimensions including length, width, height, axle spacing, angles of approach and departure and breakover angle. Each drawing shall include the Curb Weight, Gross Axle Weight Ratings, Gross Vehicle Weight Rating, Gross Combination Weight Rating, and Centre of Gravity. Refer to DND Drawing 9277163 for a sample General Arrangement drawing.

ID	SMP - Annex B - Statement of Work
SOW-1810	The Contractor shall provide Canada with access to the TDP through the Electronic Information Environment (EIE) on an as requested basis. After receiving a request from Canada, the Contractor shall post the requested TDP documentation to the EIE within two days. The Contractor shall advise the Requestor of the list of components of the TDP that have been posted and the detailed path or directory on the EIE where the information can be obtained. The EIE requirement is defined in Appendix BE of the ISS Contract.
SOW-8	<b>5 INTEGRATED LOGISTICS SUPPORT</b>
SOW-769	<b>5.1 SCOPE</b>
SOW-770	<b>5.1.1 General</b>
SOW-771	This section describes the work to be performed by the Contractor to support the SMP Vehicle, APS, and Trailer.
SOW-792	After the last Vehicle, APS and Trailer is delivered, ILS will continue in the SMP In Service Support Contract.
SOW-778	<b>5.2 INTEGRATED LOGISTICS SUPPORT (ILS) PROGRAM</b>
SOW-1130	The Contractor shall plan and conduct an ILS program: <ul style="list-style-type: none"> <li>a. to influence the Vehicle, APS, and Trailer design, ensuring effective support at minimum cost;</li> <li>b. to identify the tasks that must be performed to maintain the Vehicle, APS, and Trailer and the logistics resources needed to perform these tasks; and</li> <li>c. to support Canada's efforts to acquire and field the needed logistics support resources.</li> </ul>
SOW-780	<b>5.2.1 Integrated Logistics Support Plan (ILSP)</b>
SOW-781	The Contractor shall prepare, submit and implement the ILSP IAW CDRL SMP-IL-001 and DID SMP-IL-001, once approved. The ILSP serves as the principal management and planning document for execution of the ILS program.
SOW-1277	<b>5.2.2 ILS Manager (ILSM)</b>
SOW-786	The Contractor shall appoint an ILSM who will be the single point of contact to Canada for the performance of the ILS program.
SOW-782	<b>5.2.3 ILS Management Team (ILSMT)</b>
SOW-783	The Contractor shall establish a joint ILS Management Team (ILSMT) with Canada that will meet regularly to discuss ILS progress and resolve problems as they arise. The ILSMT may from time to time establish joint Canada/Contractor Working Groups to resolve detailed ILS technical problems.
SOW-784	The ILSMT Meetings shall be co-chaired by the TA and the ILSM.
SOW-785	The Contractor's ILSMT members shall have the necessary authority and expertise to make this forum effective.
SOW-787	<b>5.2.3.1 ILSMT Function</b>

ID	SMP - Annex B - Statement of Work
SOW-788	The ILSMT shall provide a forum to: <ul style="list-style-type: none"> <li>a. Explain foreseeable problems, and proposed solutions, including an assessment of their impact on ILS deliverables in terms of milestone payments, schedule and risk;</li> <li>b. Identify and investigate opportunities to further reduce the Vehicle, APS, and Trailer Life Cycle Costs;</li> <li>c. Formulate approaches and priorities to resolving ILS problems or potential problems, including the time and effort required to enact the solution;</li> <li>d. Provide an explanation of any schedule variation and the corrective action to be taken;</li> <li>e. Ensure that appropriate follow-up action is taken for each identified ILS problem or potential problem;</li> <li>f. Coordinate the efforts of the ILS elements and the interface with other areas of the program organization and reviews; and</li> <li>g. Ensure Contractor compliance with applicable requirements, regulations, specifications, standards, and guidelines.</li> </ul>
SOW-789	<b>5.2.3.2 ILSMT Meetings</b>
SOW-790	The initial ILSMT Meeting shall be held immediately following and in the same location as the contract Kickoff Meeting for the purpose of organizing the Contractor and Canada's ILS effort and achieving mutual understanding of Contractor and Canada's responsibilities.
SOW-791	Further ILSMT Meetings shall be convened on a monthly basis from contract award until 12 Months After Final Design Acceptance (12 MAFDA), then quarterly thereafter. Meeting dates shall be mutually agreed upon and should be held in conjunction with the PRMs.
SOW-1837	<b>5.2.3.2.1 Coordination</b>
SOW-1838	The Contractor shall coordinate with the CA regarding all arrangements related to ILSMT Meetings. Representatives of PWGSC, DND or other governmental authorities will participate as required by the agenda.
SOW-1839	<b>5.2.3.2.2 Supporting Documentation</b>
SOW-1840	The Contractor shall provide supporting documentation, schedules, lists, agendas, minutes, test reports, drawings, specifications, design analysis and other pre and post review data as appropriate in support of the ILSMT Meetings.
SOW-797	<b>5.3 SUPPORT CONCEPT</b>
SOW-798	The Support Concept that describes Canada's intent for support for both Acquisition and ISS Contracts is detailed in the Introduction of the ISS Model Contract, Annex B - ISS Statement of Work (SOW). The Integrated Logistics Support section of this SOW is to be read in conjunction with the Support Concept detailed in the ISS Model Contract, Annex B - ISS Statement of Work (SOW).
SOW-799	<b>5.4 LOGISTIC SUPPORT ANALYSIS (LSA)</b>
SOW-800	The Contractor shall perform LSA to the extent stipulated and tailored herein on the items identified in the approved LSA Candidate Items List (CIL). LSA shall be used as the source for identification of logistics resources such as spare parts, tools and test equipment, required training and technical publications.
SOW-801	The Contractor shall identify, based on any LSA and existing OEM data, the required preventive and corrective maintenance tasks and logistic resources for each Vehicle, APS, and Trailer component identified as a Maintenance Significant Item (MSI). The Contractor shall document this maintenance analysis within his LSA Record (LSAR) and shall identify tasks, level of maintenance, manpower, spare parts and the support equipment required, as well as task times and frequencies.

ID	SMP - Annex B - Statement of Work
SOW-802	<b>5.4.1 LSA Tasks</b>
SOW-803	The Contractor shall conduct any LSA Tasks IAW the requirements of UK DEF STAN 00-60, as specified and tailored herein.
SOW-804	The Contractor shall perform the following LSA Tasks on the items identified in the approved LSA CIL for first and second level of maintenance, as outlined in the SMP Support Concept.
SOW-805	<b>5.4.1.1 LSA Plan</b>
SOW-806	<b>5.4.1.1.1 Sub-Task 102.2.1 LSA Plan</b>
SOW-807	The Contractor shall prepare, submit, maintain and implement the LSA Plan IAW CDRL SMP-IL-002 and DID SMP-IL-002, once approved. The LSA Plan shall serve as the principal management and planning document for execution of all LSA Tasks specified in this SOW.
SOW-808	<b>5.4.1.1.2 LSA Reviews</b>
SOW-809	The Contractor shall conduct LSA Reviews to streamline the LSA process and provide rapid turnaround time for the LSA Tasks and develop an effective LSAR database. LSA Reviews shall be combined with the ILSMT Meetings whenever possible. Agenda topics shall include, as a minimum, the status of LSA development, outstanding action for the Contractor and Canada, a review of the schedule, anticipated problem areas and new business.
SOW-810	<b>5.4.1.1.3 Logistic Configuration Baseline (LCB)</b>
SOW-811	The Contractor shall establish and maintain a LCB IAW the LSA Plan. Specifically, the Contractor shall: <ul style="list-style-type: none"> <li>a. Define the Equipment Breakdown Structure (EBS);</li> <li>b. Identify Maintenance Significant Items (MSIs) which are designated as items requiring maintenance resources;</li> <li>c. Assign Logistics Control Numbers (LCNs);</li> <li>d. Enter data in the LSAR; and</li> <li>e. Maintain the LCB under Configuration Control.</li> </ul>
SOW-813	The Contractor shall ensure that the management of LSA data is closely coordinated with the project-wide functions of Configuration and Data Management.
SOW-1132	<b>5.4.1.1.4 LSA Candidate Items List (CIL)</b>
SOW-1133	The Contractor shall determine which items in the EBS will be subjected to LSA and shall prepare an LSA CIL IAW CDRL SMP-IL-003 and DID SMP-IL-003 for review and acceptance by Canada. The items on the LSA CIL include only the items for which the Contractor has not already performed LSA.
SOW-812	As the Vehicle, APS and Trailer designs become more fully defined and as the LSA work progresses, it may be necessary to add more MSIs. In this case, the Contractor shall update the LSA CIL. Canada will review and approve changes to the LSA CIL at LSA Reviews.
SOW-816	<b>5.4.1.2 Task 301 Functional Requirements Identification</b>
SOW-817	<b>5.4.1.3 Sub-task 301.2.4 Task Inventory</b>

ID	SMP - Annex B - Statement of Work
SOW-818	The Contractor shall conduct LSA Sub-Task 301.2.4, Task Inventory, identifying all the tasks that Operators, Maintainers, or support personnel must perform. This Task Inventory shall be documented in the LSAR IAW CDRL SMP-IL-004 and DID SMP-IL-004.
SOW-819	The Contractor need not conduct front-end analysis such as Failure Mode and Effects, and Criticality Analysis (FMECA) and Reliability Centered Maintenance (RCM) analysis on systems or assemblies for which data is readily available and will not be changed or modified.
SOW-820	During the LSA Reviews, if the TA deems there is insufficient existing data defining corrective and preventive maintenance tasks and commensurate logistic resources to maintain a Candidate Item in the DND operating environment, the Contractor shall perform the necessary analysis (RCM, Maintenance Task Analysis (MTA)) to fully identify the logistic resources needed to support the Candidate Item.
SOW-821	<b>5.4.1.4 Task 401 Task Analysis</b>
SOW-822	The Contractor shall perform Task Analysis, tailored to the UK DEF STAN 00-60 Sub-tasks stated below: a. Sub-task 401.2.1 (a,b,c) Analyze operations and maintenance tasks; b. Sub-task 401.2.2 Document results of Sub-task 401.2.1 in LSAR IAW CDRL SMP-IL-004 and DID SMP-IL-004; c. Sub-task 401.2.3 Identify new or critical resources; d. Sub-task 401.2.5 Identify which tasks fail to meet established supportability goals; e. Sub-task 401.2.8 Document Provisioning Documentation IAW to CDRL SMP-IL-006 and DID SMP-IL-006, Provisioning Documentation; and f. Sub-task 401.2.11 Update the data in the LSAR.
SOW-823	<b>5.4.2 LSA Record (LSAR) Documentation</b>
SOW-824	<b>5.4.2.1 LSA Record (LSAR) Computer Tool</b>
SOW-825	The Contractor shall deliver the LSAR to Canada upon request in the commercially available computer tool that is compatible with Canada's current software, OMEGA PS version 14.402, and is compliant with UK DEF STAN 00-60 for storing and processing of LSA data and the production of UK DEF STAN 00-60 predefined reports.
SOW-826	The Contractor shall keep, update and maintain the LSAR database for the duration of the contract.
SOW-828	<b>5.4.2.2 LSA Data</b>
SOW-829	The Contractor is not required to deliver LSA Data, but shall keep this data updated and maintained in its LSAR database should Canada request it or a report from it.
SOW-1265	Sub-task 301.2.4 Task Inventory and specified Task 401 Task Analysis subtasks shall be scheduled so that required data are transferred to the TA with Provisioning Documentation detailed below.
SOW-830	<b>5.4.2.3 LSA Reports</b>
SOW-831	The Contractor shall deliver the following LSA Reports upon request from Canada using Canada's OMEGA PS software tool: a. LSA-019 Task Analysis Summary Report; b. LSA-023 Maintenance Plan Summary Report; and c. LSA-024 Maintenance Plan.
	<b>5.4.2.4 Defence Resource Management Information System (DRMIS)</b>

ID	SMP - Annex B - Statement of Work
SOW-833	Canada is rolling out the Defence Resource Management Information System (DRMIS) as the DND Enterprise Resource Planning (ERP) system; this system provides support for executing Materiel Acquisition and Support (MA&S) activities. In order for DND maintenance organizations to use DRMIS to support the level 1 and level 2 maintenance of the MSVS SMP Fleet, specific master data objects will have to be created in DRMIS. This initial data load process requires specific information from the OEM.
SOW-832	<b>5.4.2.4.1 Master Data - Initial Data Load</b>
SOW-834	<p>The Contractor shall prepare and deliver, IAW CDRL SMP-IL-017 and DID SMP-IL-017, the MSVS SMP fleet specific Master Data for both “As-designed Master Data / Configuration” and “As-Built Master Data / Configuration”, to support DRMIS initialisation, including, but not limited to:</p> <ul style="list-style-type: none"> <li>a. Materiel Master Records (MMR);</li> <li>b. Allowed Structure – Master Parts list (MPL);</li> <li>c. Bill of Materiel (BOM);</li> <li>d. Maintenance Task List (MTL);</li> <li>e. Functional Location (FLOC);</li> <li>f. Equipment Master Record (EMR);</li> <li>g. Measurement Points (MeasPt);</li> <li>h. Measurement Documents (MeasDoc); and</li> <li>i. Maintenance Plans (MP).</li> </ul> <p>Information detailing the exact data requirements of these Master Data files can be found at Appendix BB to this Annex.</p>
	<b>5.4.2.4.2 Delivery Cycles</b>
	<p>The Contractor shall deliver the SMP Initial Master Data in three cycles of delivery, as per CDRL SMP-IL-017, to allow for the early detection and correction of discrepancies and errors in the data files. By the 3<sup>rd</sup> cycle, the Initial Master Data shall be fully loadable and usable within DRMIS.</p> <p>Following every cycle, the Contractor shall correct any discrepancies or errors identified by DND, within its source systems, prior to the next data load cycle of the SMP Master Data.</p>
	<b>5.4.2.4.3 Contractor Support to Initial Data Load</b>
	<p>In support of the Initial Master Data load, the Contractor shall provide the following support:</p> <ul style="list-style-type: none"> <li>a. Export preparation;</li> <li>b. Participation in the Master Data validation and verification within DRMIS; and</li> <li>c. Error detection / correction activities in the Contractor’s source information systems.</li> </ul>

ID	SMP - Annex B - Statement of Work
	<p>The Contractor shall ensure that the DRMIS Master Data is:</p> <ol style="list-style-type: none"> <li>In support of the SMP Maintenance Program;</li> <li>In-line with the DRMIS Master Data Guidelines (Appendix BB); and</li> <li>Structured as specified by DND at the Kick-off meeting (MS excel spreadsheet template).</li> </ol>
	The SMP LSAR will be an important source system for the DRMIS Master Data. The Materiel Data Protocol will also provide a mapping guide to LSAR tables and Data Element Descriptions (DED), where applicable.
SOW-835	<b>5.5 SUPPLY SUPPORT</b>
SOW-836	<b>5.5.1 Supply Plan</b>
SOW-837	The Contractor shall prepare, submit and implement the Supply Support Plan IAW CDRL SMP-IL-005 and DID SMP-IL-005, once approved.
SOW-838	<b>5.5.2 Initial Provisioning Requirements</b>
SOW-839	<p>Initial Provisioning is a crucial element as it provides Canada with capability to quickly respond to early operational deployments after the delivery of the first Vehicle, APS, and Trailer. The Contractor shall provide sufficient resources to quickly initiate the IP process to ensure:</p> <ol style="list-style-type: none"> <li>Interim Spares, and Special Tools and Test Equipment (STTE) are identified; and</li> <li>The remainder of the Initial Provisioning Spares and Long-Lead items are identified and catalogued.</li> </ol>
SOW-840	<b>5.5.3 Initial Provisioning Approach for spares</b>
SOW-841	Initial Provisioning Spares identified by the Contractor will be both the repairable and consumable parts that will be required to maintain and support the Vehicle, APS, and Trailer, including the associated support equipment, during the initial two-year period of in-service use until the normal Canadian Forces Supply System (CFSS) re-provisioning system assumes responsibility for life cycle support. Procurement of spares will take place under the ISS Contract.
SOW-842	<b>5.5.4 Controlled Goods</b>
SOW-843	<p>The Contractor shall identify whether any of the equipments or parts thereof (assemblies, components or sub-components) are controlled goods or not according to the following instructions. The Contractor shall identify:</p> <ol style="list-style-type: none"> <li>For US origin controlled goods also known as defense articles, the United States Munitions List (USML) Category and paragraph that apply in accordance with the International Traffic in Arms Regulations (ITAR);</li> <li>For US origin dual use, the Export Control Classification Number (ECCN) of the Commerce Control List that applies;</li> <li>For Canadian origin items, Canada's Export Control List (ECL) articles that apply in accordance with the Schedule of the Defence Production Act (DPA); or,</li> <li>For any other country than Canada or the USA, the category and article of the Wassenaar Control List that applies.</li> </ol>
SOW-844	The Contractor shall identify any of the equipments or parts thereof that are specifically designed or modified for military purpose and not identified as Controlled or Non-Controlled Goods, to facilitate the production of Demilitarization Instructions. For items of US or Canadian origin that are going to be catalogued, the Demilitarization Code (DMC) shall be provided IAW CDRL SMP-IL-006 and DID SMP-IL-006.



ID	SMP - Annex B - Statement of Work
SOW-845	<b>5.5.5 Initial Provisioning Guidance Conferences (IPGC)</b>
SOW-846	Prior to submission of the complete Provisioning Documentation (PD), the Contractor shall host an Initial Provisioning Guidance Conference (IPGC) involving Project ILS staff, Supply Support specialists from Canada, and its own company representatives. The purpose of this conference is to ensure that all participants in the provisioning process are conversant with the planned processes, schedule, data requirements and transmittal methods outlined in D-01-100-214/SF-000. The IPGC should be scheduled in conjunction with the Kick-Off Meeting.
SOW-847	<b>5.5.6 Provisioning Documentation (PD)</b>
SOW-848	The Contractor shall provide and submit the following Provisioning Documentation in support of the Vehicle, APS, and Trailer. Provisioning Documentation is the generic term used to describe the various types of documentation needed by Canada to identify, select, catalogue, procure and distribute support items to be procured through the Initial Provisioning process. The four lists described immediately below shall be part of the same document.
SOW-849	<b>5.5.6.1 Provisioning Parts Breakdown (PPB)</b>
SOW-850	The Contractor shall provide and submit a Provisioning Parts Breakdown (PPB) IAW CDRL SMP-IL-006 and SMP DID SMP-IL-006. The PPB provides a complete top-down breakdown of the Vehicle, APS, and Trailer to identify all parts necessary for maintenance support. The PPB will form the basis for the next three lists required. The Contractor will create the PPB in full, and add columns for the Recommended Spare Parts List (RSPL), Long Lead Time Items List (LLTIL) and Interim Spares List (ISL) as described below.
SOW-851	<b>5.5.6.2 Recommended Spare Parts List (RSPL)</b>
SOW-852	The Contractor shall identify in the PPB a Recommended Spare Parts List (RSPL) IAW CDRL SMP-IL-006 and DID SMP-IL-006 based on the Mission Profile of the Vehicle, APS, and Trailer for a period of two years, exclusive of any warranty period.
SOW-853	<b>5.5.6.3 Long Lead Time Items (LLTI)</b>
SOW-854	The Contractor shall identify in the PPB all Long Lead Time Items (LLTI) to enable procurement and delivery of each Long Lead Time Item.
SOW-855	<b>5.5.6.4 Interim Spares List (ISL)</b>
SOW-856	The Contractor shall identify in the PPB all Interim Spares (IS) that will enable procurement of sufficient spare parts to support early operations. ISL will constitute approximately 25% of RSPL. The items listed on ISL are to be delivered prior to the first Vehicle, APS or Trailer delivery to the two handover locations in a ratio of 70% to Montreal and 30% to Edmonton. Final composition of the ISL will be determined during the Preliminary IPC at 2 MACA.
SOW-857	<b>5.5.7 Special Tools and Test Equipment (STTE) List</b>
SOW-858	The Contractor shall provide and submit a STTE List for level 1 and level 2 maintenance IAW CDRL SMP-IL-007 and DID SMP-IL-007. The STTE List shall identify any STTE that, although being special to the equipment being purchased, may already be in the CF inventory. A list of items currently within the CF Vehicle Technician Tool List is available in SMP Appendix BI. Procurement of STTE will take place under the ISS Contract.

ID	SMP - Annex B - Statement of Work
SOW-1858	The Contractor shall provide with each STTE, the following:  a. User manual and technical information; and b. Hard protective case with padded protective interior that is intended to accommodate fragile STTE.
SOW-860	<b>5.5.8 Supplementary Provisioning Technical Documentation (SPTD)</b>
SOW-1213	The Contractor shall provide Canada with the technical data and information to identify and describe the Vehicle, APS, and Trailer components and sub-components that are being introduced into the Canadian Government Cataloguing System (CGCS).
SOW-861	The Contractor shall provide and submit Supplementary Provisioning Technical Documentation (SPTD) IAW CDRL SMP-IL-008 and DID SMP-IL-008 to uniquely identify, for cataloguing purposes, each item in each provisioning list.
SOW-1216	Any disputes regarding the acceptability of technical data submitted by the Contractor, will be resolved IAW Article 7.9 of the Contract.
SOW-1217	For items procured by the Contractor from a subcontractor or vendor, the Contractor shall furnish the name of the actual manufacturer and its part number along with all necessary technical documentation.
SOW-1732	The Contractor shall assign its own part number to all repairable components that are procured from a subcontractor or vendor and provide it to Canada IAW CDRL SMP-IL-006 and DID SMP-IL-006.
SOW-862	Where a manufacturer or subcontractor refuses to supply the Contractor with data requirements for proprietary or other reasons, the Contractor is not relieved of the obligation to provide the relevant data and shall pursue the matter IAW D-01-100-214/SF-000.
SOW-863	<b>5.5.9 Repair and Overhaul (R&amp;O) Candidate Items List</b>
SOW-864	The Contractor shall provide a R&O Candidate Items List IAW CDRL SMP IL-009 and DID SMP IL-009.
SOW-1156	<b>5.5.9.1 Timely Return of R&amp;O Candidates</b>
SOW-1157	The following criteria shall be followed for R&O Turn Around Times (TAT): Equipment TAT to a serviceable state shall be generally achieved within 60 calendar days for items listed on the Selection Notice and Priority Summary (SNAPS) Report IAW A-LM-184-001/JS-001.
SOW-1158	Normally, for R&O items DND holds between three and six months serviceable stock-on-hand.
SOW-865	<b>5.5.10 Material Change Notices (MCNs)</b>
SOW-866	The Contractor shall provide a MCN IAW CDRL SMP-IL-010 and DID SMP-IL-010 to inform Canada of each change to submitted provisioning data.

ID	<b>SMP - Annex B - Statement of Work</b>
SOW-1281	<p>The Contractor shall submit MCNs whenever one or more of the following data elements is changed for a given item:</p> <ul style="list-style-type: none"> <li>a. Indention code;</li> <li>b. Item name;</li> <li>c. Manufacturer's Reference Number (MRN);</li> <li>d. NATO Supply Code for Manufacturer (NCSM)/NATO Commercial and Government Entity (NCAGE) Code;</li> <li>e. Contractor's part number;</li> <li>f. Quantity Per Assembly (QPA);</li> <li>g. Reference designation number; and</li> <li>h. Unit of Issue (UOI).</li> </ul>
SOW-868	<b>5.5.11 Initial Provisioning Conferences (IPCs)</b>
SOW-869	<p>The Contractor shall convene IPCs at its facility as follows:</p> <ul style="list-style-type: none"> <li>a. Preliminary IPC. The purpose of the Prelim IPC is to: <ul style="list-style-type: none"> <li>i) Validate the submitted ISL;</li> <li>ii) Identify and select the range and depth (quantity) of the Interim Spares;</li> </ul> </li> <li>b. Final IPC. The purpose of the Final IPC is to: <ul style="list-style-type: none"> <li>i) Validate the submitted PPB;</li> <li>ii) Identify and select the range and depth (quantity) of spare parts for the remaining balance of Initial Provisioning;</li> <li>iii) Identify R&amp;O candidate items; and</li> <li>iv) Identify STTE.</li> </ul> </li> </ul>
SOW-871	<p>The Contractor shall provide personnel, facilities, data and provisioning documentation for the conduct of the Preliminary IPC. This shall include, but is not limited to, the following:</p> <ul style="list-style-type: none"> <li>a. A copy of the provisioning lists to be discussed (ISL);</li> <li>b. Reliability and Maintainability data for items on the ISL;</li> <li>c. Engineering and Product support assistance and personnel for items on the ISL; and</li> <li>d. Technical data and SPTD for items that Canada wishes to catalogue or procure IAW D-01-100-214/SF-000.</li> </ul> <p>The Contractor shall provide personnel, facilities, data and provisioning documentation for the conduct of the Final IPC. This shall include, but is not limited to, the following:</p> <ul style="list-style-type: none"> <li>a. A copy of the provisioning lists to be discussed;</li> <li>b. Reliability and Maintainability data;</li> <li>c. Engineering and Product support assistance and personnel; and</li> <li>d. Technical data and SPTD for items, including STTE and R&amp;O Candidate Item List, that Canada wishes to catalogue or procure IAW D-01-100-214/SF-000.</li> </ul>
SOW-1764	<b>5.5.12 Identification and Marking</b>

ID	SMP - Annex B - Statement of Work
SOW-1770	<b>5.5.12.1 Items Without Identification Plates</b>
SOW-1771	For items which do not have Identification Plates, the Contractor shall apply and position the bilingual Identification Plates in accordance with: a. C-02-006-002/AG-000 (CFTO Information Markings on Canadian Forces Equipment); and b. D-02-002-001/SG-001 (CF Standard for Identification and Marking of Canadian Military Property).
SOW-1772	Canada will provide a list of applicable NATO Stock Numbers (NSNs) to the Contractor for inclusion on the Identification Plate prior to the commencement of the marking. The Contractor shall update all applicable documentation with the NSN identifier.
SOW-1780	<b>5.5.12.2 Additional Item Markings</b>
SOW-1781	The Contractor shall mark the original manufacturer's part number, serial number and NATO Stock Number (NSN) on each item in Human-Readable Interpretation (HRI) markings. Such markings must be of such quality as to remain machine readable for the expected life of the item.
SOW-1782	The Contractor shall apply and position all item markings in accordance with D-02-002-001/SG-001 and C-02-006-002/AG-000.
SOW-872	<b>5.5.12.3 Identification Plates</b>
SOW-873	The Contractor shall provide the required identification nameplates or markings IAW DID SMP-IL-011 and CDRL DID SMP-IL-011.
SOW-874	<b>5.6 PACKAGING, HANDLING, STORAGE AND TRANSPORTATION (PHST)</b>
SOW-876	The Contractor shall use best commercial packaging practices, unless otherwise directed by Canada to use military packaging.
SOW-877	<b>5.6.1 Identification, Shipping and Packaging Data</b>
SOW-1855	Packaging requirements for Vehicles, Trailers and APS, shall be IAW <b>C-30-560-000/VS-001</b> , Equipment Stowage and Shipping Instructions Chassis, Light Armoured Vehicle (LAV), Armoured Personnel Carrier (APC), Wheeled, 8X8, Diesel.
SOW-878	To identify packaging requirements for all other items that are to be shipped to or stored in a facility owned by Canada, the Contractor shall prepare and submit Identification, Shipping and Packaging Data in accordance with CDRL SMP-IL-012 and DID SMP-IL-012.
SOW-879	Items having a line item value of less than \$300 are exempt, unless that item requires special packaging to prevent damage or deterioration or has hazardous characteristics.
SOW-880	The Contractor shall prepare and provide packaging sketches or drawings for items for which the packaging is too complicated to be described by coding or by reference to general specifications.
SOW-886	<b>5.6.2 Special Reusable Containers</b>
SOW-887	The Contractor shall identify and recommend at both IPCs the feasibility of using special reusable containers for any items on the Contractor's Recommended Initial Provisioning List (Part 7, Annex C). Submissions will include an evaluation of the costs involved in the design and test of the containers.
SOW-1336	The Contractor shall provide a Special Reusable Container List IAW CDRL SMP-IL-012 and DID SMP-IL-012.
SOW-888	<b>5.6.3 Bar Coding and Marking of Packages</b>

ID	SMP - Annex B - Statement of Work
SOW-889	For any items Canada may procure, the Contractor shall permanently affix a Bar Code to each uniquely identifiable item and MSI within it using Bar Code symbology 128, IAW D-LM-008-002/SF-001. The Contractor shall affix a Bar Code to each shipping package/container to identify its contents. Containers housing a group of components and sub-components shall be Bar Coded with the applicable NSNs.
SOW-1786	<b>5.6.4 Package Labelling</b>
SOW-1787	The Contractor shall ensure that in addition to the required interior and exterior package markings, the following data is also included in the package label: <ul style="list-style-type: none"> <li>a. specification number;</li> <li>b. manufacturer's name;</li> <li>c. drawing number;</li> <li>d. batch/lot number;</li> <li>e. qualification number;</li> <li>f. cure date of rubber components;</li> <li>g. shelf life/expiry date;</li> <li>h. data required by the contract or by the commodity specification;</li> <li>i. date of manufacture;</li> <li>j. date of repair or overhaul;</li> <li>k. name of repair or overhaul contractor; and</li> <li>l. modification status.</li> </ul>
SOW-1788	The Contractor shall apply and position these data elements in accordance with D-LM-008-002/SF-001.
SOW-890	<b>5.7 TECHNICAL DOCUMENTATION PROGRAM</b>
SOW-891	<b>5.7.1 General Outline</b>
SOW-892	Technical documentation to safely maintain, operate and support the Vehicle, APS and the Trailer should, to the extent possible, be based on Contractor's existing Military Of The Shelf (MOTS) Interactive Electronic Technical Manual (IETM) and Hard Copy Publications (Operator Manuals only).
SOW-893	<b>5.7.2 Technical Documentation Management Plan (TDMP)</b>
SOW-894	The Contractor shall prepare, submit and implement the Technical Documentation Management Plan IAW CDRL SMP IL-013 and DID SMP IL-013, once approved.
SOW-895	<b>5.7.3 Publications</b>

ID	SMP - Annex B - Statement of Work
SOW-896	<b>5.7.3.1 Operator Manual</b>
SOW-897	The Contractor shall deliver an Operator Manual for the Vehicle, APS and Trailer IAW CDRL SMP-IL-014 and DID SMP-IL-014.
SOW-898	The Operator Manual shall be produced IAW C-01-100-100/AG-005.
SOW-902	<b>5.7.3.2 Publication Updates and Revision</b>
SOW-903	Publication updates can be driven by engineering changes, deficient validation procedures, part changes, DND changes request, publications observation reports, recalls, safety and other issues.
SOW-1401	A revision is a complete reissue of the existing publication that replaces the original and all changes thereof. A revision date and number is added to the title page.
SOW-1404	The Contractor shall provide updates to the hard copy publications delivered to Canada as required and shall track them IAW the In-Service Support Contract.
SOW-1403	The Contractor shall submit updates to Canada as they occur.
SOW-1402	The Contractor shall provide a complete re-issue of the Operator Manual when a single change or cumulative changes affect more than 25 per cent of the content in the publication; this re-issue may be in electronic format (ie: PDF).
SOW-1010	<b>5.7.4 IETM</b>
SOW-901	The Contractor shall deliver an IETM for the Vehicle, APS and Trailer that meets requirements of SMP Appendix BC, IAW CDRL SMP-IL-015 and DID SMP-IL-015.
SOW-1422	The Contractor shall provide a complete re-issue of the IETM to the latest standard when 10 percent or more of the data is changed.
SOW-904	<b>5.7.5 Metric Format</b>
SOW-905	The Contractor shall use Metric units. Exceptions are as follows: a. Where required for clarity, the metric units shall be followed in parentheses by the imperial or United State (US) equivalent; and b. Where the equipment or system uses dials, gauges or other indicators labelled or inscribed in imperial or US units, such non-metric units shall be shown, followed by the metric equivalent in parentheses.
SOW-906	<b>5.7.6 Common Language Requirements</b>
SOW-907	In all publications, the technical content shall be presented in language free of vague and ambiguous terms, using the simplest words and phrases that will convey the intended meaning.
SOW-908	<b>5.7.7 Official Languages</b>
SOW-909	All publications shall be delivered in both Canadian official languages, English and French. The language quality of the translation shall be consistent with and equivalent to the source text.
SOW-1219	<b>5.7.8 Publications Certificates</b>
SOW-1221	The Contractor shall, prior to proceeding with the preparation of the reproducible copy, ensure approval has been granted by Canada by means of the Certificate of Validation and Certificate of Compliance IAW Annex H.

ID	SMP - Annex B - Statement of Work
SOW-1220	The Contractor shall, prior to proceeding with the production of the reproducible copy, subject all translated material to the translation accuracy check process and ensure approval has been granted by Canada by means of the Certificate of Translation and Certificate of Compliance IAW Annex H.
SOW-1222	The Contractor shall, prior to proceeding with the production of the printed copy, ensure approval has been granted by Canada by means of the Certificate of Reproducible Copy IAW Annex H.
SOW-910	<b>5.8 TRAINING PROGRAM</b>
SOW-911	<b>5.8.1 Introduction</b>
SOW-912	The Contractor shall support the Vehicle, APS, and Trailer training program by providing analysis, design, development, courseware materials and conduct of: <ul style="list-style-type: none"> <li>a. Familiarization Training (FT); and</li> <li>b. Initial Cadre Training (ICT), which includes: <ul style="list-style-type: none"> <li>(1) Operator Instructor Initial Cadre Training Pilot Courses;</li> <li>(2) Technician Instructor Initial Cadre Training Pilot Courses;</li> <li>(3) Operator Instructor ICT; and</li> <li>(4) Technician Instructor ICT.</li> </ul> </li> </ul>
SOW-913	<b>5.8.2 Official Languages</b>
SOW-914	The Contractor shall produce course teaching and learning materials, and deliver courses in both official languages of Canada, English and French, unless otherwise noted herein.
SOW-915	<b>5.8.3 Training Work Requirements</b>
SOW-1854	In the development and management of individual training, the Contractor will utilize the guidance provided in the following DND documents:
SOW-1312	The Contractor shall develop training IAW Canadian Forces Individual Training and Education System (CFITES) manuals - A-P9-050-000 series; and
SOW-1853	The Army Systems Approach to Training (ASAT), methodology for training development (Ref: B-GL-300-008/FP-001).
SOW-916	<b>5.8.3.1 Training Program Plan (TPP)</b>
SOW-917	The Contractor shall prepare, submit and implement the Training Program Plan (TPP) IAW CDRL SMP-IL-016 and DID SMP-IL-016, once approved. The TPP will identify the responsibilities, processes and procedures required to develop and conduct the FT and the ICT.
SOW-918	<b>5.8.3.2 Training Development Working Group (TDWG)</b>
SOW-919	The Contractor shall establish a Training Development Working Group (TDWG). The TDWG is a joint Canada/Contractor Working Group established to provide a venue through which Canada's Training Subject Matter Experts (SMEs) may provide information to the Contractor with respect to the analysis, design, development, quality and optimum delivery schedule of the Vehicle, APS, and Trailer training deliverables.
SOW-920	The TDWG shall comprise Canada and Contractor personnel who possess training expertise and are able to draw on specialists from their respective organizations, as required.
SOW-921	The TDWG shall be co-chaired by the TA and the Contractor's representative.

ID	SMP - Annex B - Statement of Work
SOW-922	<b>5.8.3.2.1 TDWG Sessions</b>
SOW-923	The first TDWG session shall be convened within 3 Months After Contract Award (3 MACA) at the Contractor's facility.
SOW-924	Further TDWG sessions will be convened when and where required and as mutually agreed upon by the TDWG Co-Chairs.
SOW-928	<b>5.8.3.3 Familiarization Training (FT)</b>
SOW-929	Canada's intent for FT is to provide Canada's SMEs with knowledge on the Vehicle, APS, and Trailer to proficiently: <ul style="list-style-type: none"> <li>a. Participate in the TDWG;</li> <li>b. Assess the training delta between current CF Vehicles and the SMP Vehicle, APS, and Trailer.</li> <li>c. Manage the training portion of the contract; and</li> <li>d. Participate in design reviews.</li> </ul>
SOW-930	The Contractor shall analyze, design, develop, conduct, and support FT to ensure that personnel selected by Canada acquire a level of proficiency and understanding of theory, principles and regulations related to the following subject areas of the Vehicle, APS and Trailer: <ul style="list-style-type: none"> <li>a. physical characteristics;</li> <li>b. systems characteristics;</li> <li>c. systems capabilities;</li> <li>d. systems interfaces;</li> <li>e. safety procedures and regulations;</li> <li>f. maintenance and servicing requirements; and</li> <li>g. associated STTE.</li> </ul>
SOW-931	<b>5.8.3.3.1 Familiarization Training Serials</b>
SOW-932	The Contractor shall conduct three serials of FT for ten people per serial, in English, at Contractor's facility, using representative Vehicles, Trailers and APS as training aids.
SOW-1313	The Contractor shall provide everything required to conduct FT serials, including but not limited to: instructional staff, support personnel, Field Service Representatives (FSRs), materials, consumables and equipment, including representative Vehicles, Trailers and APS.
SOW-933	The Contractor shall conduct FT between one and six MACA as scheduled in consultation with TA.
SOW-1307	The Contractor shall provide each trainee with a course material package upon completion of training. One copy of course material shall be provided to PMO.
SOW-934	<b>5.8.3.4 Initial Cadre Training (ICT)</b>
SOW-935	The Contractor shall analyze, design, develop, conduct and support ICT to ensure DND Operator and Technician Instructors selected by Canada achieve Knowledge and Skill Level 3, as defined in CFITES Manual of Individual Training and Education Volume 3, A-P9-050-000/PT-003.
SOW-1148	The Contractor shall deliver training to ten trainees per serial.
SOW-1410	The Contractor shall not conduct ICT during the months of July and August, and from December 15th until January 15th, unless approved by the TA
SOW-936	<b>5.8.3.4.1 ICT Pilot Course Serials</b>



ID	SMP - Annex B - Statement of Work
SOW-937	The Contractor shall conduct one pilot ICT serial, in English, at a Contractor facility for each of the following: <ul style="list-style-type: none"> <li>a. Operators;</li> <li>b. Vehicle Technician, Military Occupational Structure Identification Code (MOSID) 00129; and</li> <li>c. Material Technician, MOSID 00134, specifically for the APS.</li> </ul>
SOW-1309	The Contractor shall conduct ICT Pilot Courses as soon as sufficient LHS and Cargo with Crane variants, Trailers and APSs are available at the Contractor's facility.
SOW-1272	The Contractor shall provide ICT Pilot Course Material IAW CDRL SMP-IL-018 and DID SMP-IL-018.
SOW-938	The Contractor shall, in consultation with Canada, make any necessary modification to the ICT course packages prior to proceeding with the final versions of ICT.
SOW-1270	<b>5.8.3.4.1.1 ICT Pilot Serials Support</b>
SOW-1271	The Contractor shall provide everything required to conduct ICT Pilot serials, including but not limited to: instructional staff, support personnel, Field Service Representatives (FSRs), materials, consumables and equipment, including Vehicle, APS, and Trailer.
SOW-1314	The Contractor shall return all equipment, including Vehicles, APS and Trailer, used for ICT Pilot serials to as new condition, and to the same configuration as production units.
SOW-939	<b>5.8.3.4.2 ICT Serials</b>
SOW-940	<b>5.8.3.4.2.1 ICT Operator Instructor Training</b>
SOW-1146	The Contractor shall deliver ICT Operator Instructor Training serials at the specified locations and in the specified language as follows: <ul style="list-style-type: none"> <li>a. CFB Gagetown - 3 (English);</li> <li>b. CFB Valcartier - 4 (French);</li> <li>c. CFB Petawawa - 4 (English);</li> <li>d. CFB Edmonton - 5 (English); and</li> <li>e. 25CFSD - 1 (French).</li> </ul>
SOW-1276	The Contractor shall provide ICT Operator Instructor Course Material IAW CDRL SMP-IL-019 and DID SMP-IL-019.
SOW-1149	The Contractor shall conduct training upon 30 days notice by Canada, no later than 2 months after the first vehicle delivery, and not before the delivery of six LHS variants, six Trailers, and six Cargo with Crane variants at each location identified above. Training shall be completed within 120 days of commencing at each location.
SOW-942	<b>5.8.3.4.2.2 ICT for Technician Instructors</b>
SOW-943	The Contractor shall conduct ICT for Technician Instructors at CFSEME, Borden ON, for each of the following DND MOSIDs: <ul style="list-style-type: none"> <li>a. 00129 Vehicle Technician; and</li> <li>b. 00134 Materiel Technician.</li> </ul>
SOW-1274	The Contractor shall provide ICT Technician Instructor Course Material IAW CDRL SMP-IL-020 and DID SMP-IL-020.

ID	SMP - Annex B - Statement of Work
SOW-1147	The Contractor shall deliver training in both official languages of Canada, as follows: <ul style="list-style-type: none"> <li>a. five English Vehicle Technician Instructor serials;</li> <li>b. two French Vehicle Technician Instructor serials; and</li> <li>c. one English Materiel Technician Instructor serial with Francophone assistance provided by Canada.</li> </ul>
SOW-1268	The Contractor shall conduct training upon 30 days notice by Canada, and not before the delivery of two LHS variants, two Trailers, two Cargo with Crane variants and one APS to CFB Borden. Training shall be completed within 120 days of commencing.
SOW-944	<b>5.8.3.4.2.3 ICT Serials Support</b>
SOW-945	The Contractor shall provide everything required to conduct all ICT serials, including but not limited to: instructional staff, support personnel, Field Service Representatives (FSRs) and training materiel and equipment, excluding Vehicle, APS, and Trailer.
SOW-1280	Canada will provide and support the Vehicles, APS, and Trailers, required to support all ICT serials in conjunction with FSRs for maintenance.
SOW-946	<b>5.8.4 Training Resource List</b>
SOW-947	The Contractor shall prepare and submit a list of recommended training aids and equipment IAW the Training Resource List, CDRL SMP-IL-021 and DID SMP-IL-021.
SOW-1728	<b>5.9 SMP Fielding Prerequisite and Requirements</b>
SOW-1388	<p>The Contractor shall deliver CLIN series 1000, 2000 and 3000, identified in Annex C, IAW the following requirements:</p> <ul style="list-style-type: none"> <li>a. The Contractor shall commence deliveries no earlier than 3 MAFDA and no later than 6 MAFDA, and shall complete deliveries no later than 41 MACA;</li> <li>b. Except for the APS and MRT variant, the Contractor shall deliver no more than 150 pieces of equipment per month distributed among the Equipment Fielding Coordination Centres (EFCCs);</li> <li>c. Except for the APS and MRT variant, the Contractor shall deliver no more than 30 pieces of equipment per month at each EFCC;</li> <li>d. Except for the APS and MRT variant, the Contractor shall not deliver more than 20% of any CLIN until 10% of all other CLINs are also delivered;</li> <li>e. Delivery shall begin with the complete delivery of CLIN series 1050 (MRT) without limitation on quantity delivered at any one time;</li> <li>f. The Contractor shall not deliver equipment during the last two weeks of December; and</li> <li>g. The delivery period shall be no less than 12 months and no more than 18 months in duration.</li> </ul> <p>The SMP Schedule Constraints, including Delivery, are also depicted at Part 7, Annex B, Appendix BJ.</p>
SOW-1386	<b>5.10 DELIVERY PLAN</b>
SOW-1387	The Contractor shall prepare, submit and implement a Delivery Plan IAW article 5.9 above and IAW CDRL SMP-IL-022 and DID SMP-IL-022, once approved, indicating the delivery schedule for Contract Deliverables.
SOW-1278	<b>5.11 PRE-DELIVERY INSPECTION (PDI)</b>

ID	SMP - Annex B - Statement of Work
SOW-1279	The Contractor shall provide a PDI Report for each Vehicle and Trailer, IAW delivery and acceptance procedures as specified in Annex I - Delivery, to confirm that the Vehicle or Trailer is presentable for delivery at the EFCC. The PDI should be conducted at a location (dealership, authorized repair centre, etc.), as close as possible to the EFCC, and no more than 200km from the EFCC, to limit the possibility of damage immediately prior to final delivery.
SOW-948	<b>5.12 WARRANTY PROGRAM</b>
SOW-949	<b>5.12.1 Warranty Support Plan</b>
SOW-950	The Contractor shall prepare, submit and implement the Warranty Support Plan IAW CDRL SMP-IL-023 and DID SMP-IL-023, once approved, identifying and documenting the elements which compose the warranty support and coverage for the Vehicle, APS and Trailer, and all On – Board Tools and STTE, and providing the framework and strategy whereby the Contractor will meet its obligations to affect Warranty Support.
SOW-965	<b>5.13 ENVIRONMENTAL HEALTH AND SAFETY (EHS) MANAGEMENT</b>
SOW-966	<b>5.13.1 General</b>
SOW-967	The Contractor shall consider, incorporate and document Environmental Health and Safety (EHS) into the decision making process for the Work.
SOW-970	<b>5.13.2 Environmental Health and Safety Management System (EHSMS)</b>
SOW-971	The Contractor shall have an Environmental Health and Safety Management System (EHSMS) which is consistent with the principles presented in ISO 14001 - Environmental Management Systems - Specification with Guidance for Use.
SOW-972	The TA shall have the right to make examinations and audits of the Work and control processes/procedures and infrastructure with respect to the environmental management system.
SOW-973	The Contractor shall keep accurate and complete EHS records, which shall, upon request, be made available to the TA or Inspection Authority, who may make copies thereof and take extracts, during the performance of the Contract.
SOW-1340	<b>5.13.3 Hazardous Materials Restrictions</b>
SOW-1341	<p>The following specified hazardous substances are restricted in the following manner:</p> <ul style="list-style-type: none"> <li>• The Contractor shall not utilize a halocarbon identified within Schedule 1, items 1 to 9 of the Federal Halocarbon Regulations within a fire suppression system;</li> <li>• The Contractor shall not utilize a halocarbon identified within Schedule 1, items 1 to 9, 11, and 12 of the Federal Halocarbon Regulations as a solvent in a solvent system;</li> <li>• Halocarbons as identified within the Ozone-Depleting Substances Regulations shall not be incorporated into the design, operation or maintenance of equipment, products, or support services;</li> <li>• Asbestos and Polychlorinated Biphenyls (PCBs) shall not be incorporated into the design, operation or maintenance of equipment, products, or support services.</li> </ul>

ID	SMP - Annex B - Statement of Work
SOW-1861	<p>Mercury Restrictions:</p> <ol style="list-style-type: none"> <li>The Contractor shall comply with all Mercury Regulations in effect throughout the conduct of the Work;</li> <li>New equipment shall not contain mercury, where possible and feasible;</li> <li>For each case where a mercury containing product is utilized the Contractor shall submit a statement explaining why it is not technically possible or feasible to use a mercury-free product in its place;</li> <li>Products containing mercury shall comply with mercury content limit as per identified in column 3 of the schedule in the proposed Regulations Respecting Products Containing Certain Substances Listed in Schedule 1 to the Canadian Environmental Protection Act, 1999 (<a href="http://www.ec.gc.ca/lcpe-cepa/eng/regulations/detailReg.cfm?intReg=203">http://www.ec.gc.ca/lcpe-cepa/eng/regulations/detailReg.cfm?intReg=203</a>) until such time as this proposed regulation comes into effect.</li> <li>Where the equipment utilizes mercury, in any shape or form, contained or used within the design, operation and maintenance of equipment, support tooling, products or materials used or consumed, shall be identified and associated with their physical location within or on the Work provided.</li> <li>The Contractor shall ensure that consumable products and equipment containing mercury are labeled in a readily visible location. The information shall be in characters that are at least 3 mm in height, legible and indelible and that are impressed, embossed or in a colour that contrasts with the label's background or the colour of the product as applicable. The label shall be enclosed by a borderline and easily distinguishable from other graphic material on the product or its package. The label shall be bilingual and shall include the following: <ol style="list-style-type: none"> <li>A statement "CAUTION/MISE EN GARDE" in characters that are at least 4 mm in height;</li> <li>A statement that the product contains mercury and the content of mercury in the product in milligrams or in the case of a product set out in column 2 of as per identified in schedule of the proposed Regulations Respecting Products Containing Certain Substances Listed in Schedule 1 to the Canadian Environmental Protection Act, 1999 (<a href="http://www.ec.gc.ca/lcpe-cepa/eng/regulations/detailReg.cfm?intReg=203">http://www.ec.gc.ca/lcpe-cepa/eng/regulations/detailReg.cfm?intReg=203</a>) until such time as this proposed regulation comes into effect, and a statement that the quantity of the toxic substance is less than or equal to the quantity set out in column 3;</li> <li>Information on the action to be taken in case of accidental breakage and a description of the risks associated with the use of the product, the address of a website that contains the information, or contact information for a person who can provide that information;</li> </ol> </li> </ol>

ID	SMP - Annex B - Statement of Work
	<p>4. Information on the options available for proper disposal and recycling in accordance with the laws of jurisdiction where the disposal or recycling to take place, the address of a website that contains the information, or contact information for a person who can provide that information;</p> <p>5. A warning that the product is to be managed in accordance with the applicable disposal or recycling laws;</p> <p>6. The "Hg" symbol encircled by a line on a readily visible location on the product where the characters are at least 3 mm in height which are impressed, embossed or in a colour that contrasts with the label's background or the colour of the product as applicable. Note: Hg symbol stands for mercury.</p> <p>g. If the product is not large enough to accommodate the information, the information shall be:</p> <ol style="list-style-type: none"> <li>1. In a readily visible location on the package in which the product is sold or offered for sale; or</li> <li>2. In a notice attached to the product or in a manual that accompanies the product, if there is no package, or if the package is not large enough to accommodate the information.</li> <li>3. In both official languages;</li> </ol> <p>h. Technical documentation shall include warnings for equipment containing mercury and shall identify work procedures for safe handling of mercury including PPE, spill clean up and disposal.</p>
SOW-974	<b>5.13.4 Environmental Health and Safety Impact Report (EHSIR)</b>
SOW-975	The Contractor shall provide an EHSIR IAW CDRL SMP-IL-024 and DID SMP-IL-024 detailing the EHS impact of the Vehicle, APS, and Trailer on personnel and the environment during all life cycle phases, including engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal.
SOW-1342	The Contractor shall provide, within the EHSIR, Material Safety Data Sheets (MSDSs) for all products/materials, which are used in the operation and maintenance of the Work, that fall under the Hazardous Products Act, R.S.C. 1985, c. H-3 and regulation(s) there under in accordance with the said Act and regulation(s).
SOW-976	<b>5.13.5 Contractor Capability and Facility Survey</b>
SOW-977	The Contractor shall provide a Contractor Capability and Facility Survey IAW CDRL SMP-IL-025 and DID SMP-IL-025.
SOW-1859	<b>5.13.6 Occupational Health and Safety</b>
SOW-1860	The Contractor must have an Occupational Health and Safety Management System (OHSMS) in place to control health and safety impacts resulting from their activities. OHSAS 18001 is a benchmark for an effective Health and Safety Management System applicable to all types and sizes of organizations. Certification to this standard is preferred but not necessary.

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 7 – Resulting Contract - Acquisition

Annex B – Statement of Work

APPENDIX BA – Vehicle Performance Requirements

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-1	<b>1 SCOPE</b>	N/A	N/A	N/A	N/A	
BA-89	This document describes the performance and technical requirements for the Standard Military Pattern (SMP) vehicles of the Medium Support Vehicle System (MSVS) Project. The MSVS SMP vehicles are comprised of the Cargo Variant, Cargo with Crane Variant, Gun Tractor Variant, Mobile Repair Truck (MRT) Variant and Load Handling System (LHS) Variant and will be referred to as the 'Vehicle' throughout this document, unless specified otherwise. The Armour Protection System (APS) is referred to as the 'APS' throughout this document, and the Load Handling System (LHS) Trailer is referred to as the 'Trailer', unless specified otherwise.	N/A	N/A	Information Only	Information Only	N/A
BA-94	The Vehicle, including all attachments and equipment, shall be capable of sustained and effective combat support operations worldwide, while maintaining the necessary stability, structural integrity and operational capability to operate safely. The projected service life shall be for a minimum of 20 years based on an expected annual usage of 5000 km.	N/A	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-683	The Vehicle shall meet all mandatory requirements listed in Appendix BA and its corresponding attachments with the APS (detailed in Attachment BA-6) installed and without the APS installed.	N/A	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-84	<b>1.1 Applicable Documents, Standards and Definitions</b>	N/A	N/A	N/A	N/A	N/A
BA-86	A list of documents, standards, acronyms, and definitions used in this Appendix is contained in Appendix BH.	N/A	N/A	Information Only	Information Only	N/A
BA-2	<b>2 VEHICLE REQUIREMENTS - MANDATORY CRITERIA</b>	N/A	N/A	N/A	N/A	N/A
BA-6	<b>2.1 Standard Design</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-98	The Vehicle shall be based on the manufacturer's latest model of its military truck. The Vehicle design shall have been introduced or significantly updated since 2003. Any upgrades, updates or modifications to the "Base Chassis" as defined in paragraph 2.2 below that have been introduced or are being introduced on currently in-service vehicles in order to improve reliability, maintainability or availability shall be included in the proposed Vehicle.	CON	N/A	POC - Include a specification sheet unique to each vehicle variant, in addition to details on the systems and components to be installed on the vehicle. Information provided shall be sufficiently detailed (including year of update / introduction) to allow evaluators to gain a clear understanding of the vehicle configuration. For instances where component data sheets differ from information in Vehicle Data sheet the Bidder is to provide an explanation.	Mandatory Requirement. No points allotted.	



ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-364	The Vehicle, APS and Trailer shall be configured to accommodate the full range of 5th percentile female characteristics through 95th percentile male characteristics, wearing the Integrated Clothing Ensemble (ICE) fighting order, including winter clothing, to carry out all functions and duties related to operating, maintaining or servicing the Vehicle, Trailer, and APS including all installed systems, subsystems and components. The range of all dimensional characteristics shall be IAW DCIEM Report 98-CR-15 for CF personnel.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-102	The Vehicle shall conform to applicable country of origin laws, regulations and industry standards governing manufacture, safety, and noise levels, unless specified otherwise.	CON	N/A	POC - Provide a list of country of origin laws, regulations, and industry standards that will be adhered to.	Mandatory Requirement. No points allotted.	N/A
BA-392	<b>2.2 Base Chassis</b>	N/A	N/A	N/A	N/A	N/A
BA-505	The "Base Chassis" comprised of the major assemblies listed below shall be common to all variants: a. Cab; b. Engine platform; c. Transmission; d. Transfer case; e. Axles; f. Wheel rims/ tires; and g. Suspension components.	CON	N/A	POC - Provide detailed spec sheets for each variant, vehicle system, and major assemblies. Include component model numbers and load ratings.	Mandatory Requirement. No points allotted.	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-506	<p>The “Base Chassis” defined above, or at a minimum, the individual major assemblies that comprise the “Base Chassis” and the frame, shall have been subjected to at least 2 Million Kilometres on a similar type of vehicle fleet, in conditions similar to the MSVS SMP Mission Profile, as detailed in Appendix BD, or shall have been validated by equivalent analytical methods, accelerated reliability and durability testing.</p> <p>The following exceptions apply:</p> <ul style="list-style-type: none"> <li>a. Minor changes in frame length and minor reinforcement to the frame of the “Base Chassis” are acceptable; and</li> <li>b. Minor changes to the wheelbase from the “Base Chassis” are acceptable.</li> </ul>	CON	N/A	<p>POC - Explain with details and proof of how this requirement will be met, including:</p> <ul style="list-style-type: none"> <li>- number of Vehicle in service using the product (Military and commercial)</li> <li>-if upgraded model in the same component family is proposed and the product has not attained the required km identify what changes were made so risk can be determined</li> <li>-if accelerated durability testing was used to establish the 2 million km usage requirement provide the test methodology used and justify how it supports the equivalency ratio used.</li> </ul>	Mandatory Requirement. No points allotted.	
BA-598	A mixed vehicle fleet of 6x6 and 8x8 vehicles between variants is not permissible.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-637	A configuration of the vehicle being proposed shall already be in military service with a NATO country or formation.	CON	N/A	POC - Identify which NATO countries or formations are currently using the proposed Vehicle general configuration.	Mandatory Requirement. No points allotted.	
BA-507	The Vehicle shall have engineering certifications or engineering affidavits available for these general military vehicle applications from the original manufacturers of major drive train components, and major equipment systems and assemblies.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-508	The Vehicle shall not have systems and component capacities increased above published ratings, as defined in product or sub-component documentation, unless approved by the Original Equipment Manufacturer (OEM).	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-509	The Vehicle shall include all components, equipment and accessories typically supplied for this general military vehicle application, although they may not be specifically described in this specification.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-8	<b>2.3 Variants</b>	N/A	N/A	N/A	N/A	N/A
BA-419	Each Vehicle variant shall be designed and equipped to meet all stated requirements as follows: a. The Cargo Variant shall be IAW Attachment BA-7 - Cargo Variant Requirements; b. The Cargo with Crane Variant shall be based on the Cargo Variant and shall be IAW Attachment BA-9 - Cargo with Crane Variant Requirements and Attachment BA-10 - Winch Requirements. c. The Gun Tractor Variant shall be based on the Cargo with Crane Variant and shall be IAW Attachment BA-5 - Gun Tractor Variant Requirements and Attachment BA-10 - Winch Requirements. d. The LHS Variant shall be IAW Attachment BA-8 - Load Handling System Variant Requirements; and e. The MRT Variant shall be based on the Cargo with Crane Variant and shall be IAW Attachment BA-14 - Mobile Repair Truck Variant Requirements and Attachment BA-10 - Winch Requirements.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-418	<b>2.4 Operating Conditions</b>	N/A	N/A	N/A	N/A	N/A
BA-91	The Vehicle shall start and operate safely and efficiently in climatic conditions A1 through C2 inclusive, as detailed in AECTP 230, Edition 1.	CON (TEST)	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-109	The Vehicle shall operate safely throughout the range of loading conditions up to GCWR, IAW the Mission Profile and intended use.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-9	<b>2.5 Vehicle Payload</b>	N/A	N/A	N/A	N/A	N/A
BA-103	The Vehicle loaded to GVW shall carry a minimum payload of 8,000 kg.	CON	N/A	POC - Provide vehicle specification sheet, The following details (defined in Appendix BH to Annex B Part 7) must be included; <ul style="list-style-type: none"> <li>- Gross Vehicle Weight Rating</li> <li>- Gross Combination Weight Rating</li> <li>- [A] Curb Weight</li> <li>- [B] Payload</li> <li>- [C] APS Weight</li> <li>- [D] Trailer Tongue Weight</li> <li>- [E] Gross Vehicle Weight, without APS [A+B]</li> <li>- [F] Gross Vehicle Weight [A+B+C]</li> <li>- [G] Gross Vehicle Weight, with trailer connected [A+B+C+D]</li> <li>- [H] Gross Trailer Weight</li> <li>- [I] Gross Combination Weight = [F+H]</li> <li>- Gross Axle</li> </ul>	Mandatory Requirement. No points allotted.	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
				Weight Rating - 1st (Front) - Gross Axle Weight Rating - 2nd - Gross Axle Weight Rating - 3rd - Gross Axle Weight Rating - 4th (If Applicable)		
BA-106	The Vehicle payload rating shall not include the weight of the Standard Kit and Equipment (IAW SMP Attachment BA-1) carried by the Vehicle, ancillary equipment, the Armoured Protection System, the trailer tongue weight, or any of the components of the Vehicle cargo system or LHS.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-681	The Vehicle loaded to GVW shall accommodate a payload centre of gravity (C of G) everywhere within the C of G envelope identified at Schedule BA-1 (using a 20 ft ISO container as the payload)	CON	N/A	<p>POC</p> <p>For all variants, provide all axle and wheel loads at GVW for the following payload scenarios:</p> <p>a. C of G located at "A"</p> <p>b. C of G located at "B"</p> <p>Additionally, for each Variant, provide graphs that show the payload C of G weight distribution curve. Two graphs per Vehicle are required one with and one without APS installed. Figure 2 Schedule BA-1 Weight Distribution diagram is provided as a sample.</p>	Mandatory Requirement. No points allotted.	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-599	<b>2.6 Trailer Towing Capacity</b>	N/A	N/A	N/A	N/A	N/A
BA-396	The Vehicle loaded to GVW shall be capable of towing the Trailer detailed in Attachment BA-11 loaded to GTW.	CON	N/A	POC - Provide vehicle specification sheet, The following details (defined in Appendix BH to Annex B Part 7) must be included; <ul style="list-style-type: none"> <li>- Gross Vehicle Weight Rating</li> <li>- Gross Combination Weight Rating</li> <li>- [A] Curb Weight</li> <li>- [B] Payload</li> <li>- [C] APS Weight</li> <li>- [D] Trailer Tongue Weight</li> <li>- [E] Gross Vehicle Weight, without APS [A+B]</li> <li>- [F] Gross Vehicle Weight [A+B+C]</li> <li>- [G] Gross Vehicle Weight, with trailer connected [A+B+C+D]</li> <li>- [H] Gross Trailer Weight</li> <li>- [I] Gross Combination Weight = [F+H]</li> <li>- Gross Axle</li> </ul>	Mandatory Requirement. No points allotted.	



ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
				Weight Rating - 1st (Front) - Gross Axle Weight Rating - 2nd - Gross Axle Weight Rating - 3rd - Gross Axle Weight Rating - 4th (If Applicable)		
BA-10	<b>2.7 Mobility</b>	N/A	N/A	N/A	N/A	N/A
BA-107	The Vehicle shall meet the definition of an Improved Medium Mobility Load Carrier (IMMLC) IAW UK Def Standard 23-6, Issue 4, Clause 20. To comply with the definition, the Vehicle, at GVW, shall meet, at minimum, the Major Factor of Gross Power-to-Weight ratio for mobility class IMMLC as listed in Table B.3 of the Standard. Secondary Factors, and the Ground Pressure MMP, for mobility class IMMLC as listed in Table B.3 are addressed elsewhere throughout the requirements, if applicable.	CON	N/A	POC - Explain how Gross Power-to-Weight ratio is met with supporting details.	Mandatory Requirement. No points allotted.	
BA-480	The angle of approach for the Vehicle shall not be less than 25 degrees (angle is measured IAW SAE J1100, dimension A106-1).  This will be measured with the Vehicle at GVW and tire pressure adjusted to off road inflation pressure.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-481	The angle of departure for the Vehicle shall not be less than 18 degrees (angle is measured IAW SAE J1100 dimension A106-2).  This will be measured with the Vehicle at GVW and tire pressure adjusted to off road inflation pressure.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-453	The Vehicle and Trailer, while configured for operation at highway speeds and with tires at highway pressure with a 20' ISO container loaded onto both the Vehicle and Trailer shall meet the following criteria:	CON	N/A	N/A	N/A	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-621	a. An unladen maximum height of 4.15 m;	CON	N/A	POC - provide a drawing of each variant with relevant dimensions.	Mandatory Requirement. No points allotted.	
BA-622	b. A maximum width of 2.6 m;  NOTE: Canada will utilize the Ontario Highway Traffic Act criteria to evaluate vehicle width. Grab handles, door handles, combat locks, and APS side window glass will be considered auxiliary equipment.	CON	N/A	POC - provide a drawing of each variant with relevant dimensions.	Mandatory Requirement. No points allotted.	
BA-623	c. A maximum overall Vehicle / Trailer combination length of 23 m;	CON	N/A	POC - provide a drawing of each variant with relevant dimensions.	Mandatory Requirement. No points allotted.	
BA-624	d. A maximum Trailer length of 12.5 m (including tongue); and	CON	N/A	POC - provide a drawing of each variant with relevant dimensions.	Mandatory Requirement. No points allotted.	
BA-625	The Vehicle shall have a maximum steering axle weight of 9000 kg at GVW.	CON	N/A	POC - For all variants, provide all axle and wheel loads for the following payload scenarios:  a. GVW with payload C of G (IAW Schedule BA-1) located at "A"	Mandatory Requirement. No points allotted.	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
				b. GVW with payload C of G (IAW Schedule BA-1) located at "B"  c. CW (without APS)  d. CW (with APS)  Additionally, for each Variant, provide graphs that show the payload C of G weight distribution curve. Two graphs per Vehicle are required one with and one without APS installed. Figure 2 Schedule BA-1 Weight Distribution diagram is provided as a sample.		
BA-436	The Vehicle shall ford a water obstacle to a depth of 750 mm without preparation IAW STANAG 2805.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-110	The Vehicle shall be capable of being driven through light vegetation and of being backed into wood lines of light vegetation without damaging any exterior components. Light vegetation is defined as small trees/brush with a stem diameter less than or equal to 25 mm in diameter at 1.5 meter height.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-669	All Vehicle exposed hydraulic lines, controls and wiring shall be protected from damage during operation.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11	<b>2.8 Transportability</b>	N/A	N/A	N/A	N/A	N/A
BA-111	The Vehicle shall be transportable worldwide by rail IAW MIL-STD-1366.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-449	The Vehicle shall withstand the shocks encountered during rail transport operations without causing damage to the Vehicle. Rail transport suitability shall be assessed using MIL-STD-810, Method 516.5, Procedure VII.	CON (TEST)	N/A	POC - Provide a rail impact test report indicating that the vehicle meets the requirement.	Mandatory Requirement. No points allotted.	
BA-112	The Vehicle shall meet the Interface Standards for Lifting and Tiedown Provisions IAW MIL-STD-209 (Revisions H, J, or K). The Vehicle shall be equipped with permanent, integrally attached tie downs so that the Vehicle, with full payload, may be tied down for transport.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-12	<b>2.9 Performance</b>	N/A	N/A	N/A	N/A	N/A
BA-117	The Vehicle shall meet all mandatory and rated performance and technical requirements at GCW unless specified otherwise.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-118	The Vehicle shall be capable of sustained operation on flat, hard-surfaced roads at a cruising speed of 90 km/h.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A
BA-121	The Vehicle shall be capable of sustained operation over off-road terrain at an average speed of 5 km/h.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-122	The Vehicle shall be able to maintain a speed of 80 km/h at GVW on a hard-surfaced 2% grade.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-123	The Vehicle shall have an operating range of no less than 500 Km between refuelling stops while travelling over hard surfaced roads at an average speed of not less than 70km/h.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-124	The cargo variant shall be able to climb and descend, at all loading conditions up to and including GVW, with intermediate stops, a hard surfaced 60% slope (dry and free of loose materiel) in a controlled manner, in both forward and reverse direction, without loss of fluids or malfunction.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A
BA-597	The cargo with crane, LHS, MRT and gun tractor variants shall be able to climb and descend, at all loading conditions up to and including GVW, with intermediate stops, a hard surfaced 40% slope (dry and free of loose materiel) in a controlled manner, in both forward and reverse direction, without loss of fluids or malfunction.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A
BA-369	The cargo, cargo with crane, MRT and LHS variants shall be able to climb and descend, at all loading conditions up to and including GCW, with intermediate stops, a hard surfaced 20% slope (dry and free of loose materiel) in a controlled manner, in both forward and reverse direction, without loss of fluids or malfunction.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A
BA-596	The gun tractor variant shall be able to climb and descend, at all loading conditions up to and including GVW while towing the M777, with intermediate stops, a hard surfaced 40% slope (dry and free of loose materiel) in a controlled manner, in both forward and reverse direction, without loss of fluids or malfunction.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-371	The LHS variant shall be able to operate on and traverse, at all loading conditions up to and including GCW, with intermediate stops, a hard surfaced 20% side slope (dry and free of loose materiel) in a controlled manner, in a forward direction, with the driver side facing up and down the slope without loss of fluids or malfunction.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-125	The cargo, cargo with crane, MRT and gun tractor variants shall be able to operate on and traverse, at all loading conditions up to and including GCW, with intermediate stops, a hard surfaced 30% side slope (dry and free of loose materiel) in a controlled manner, in a forward direction, with the driver side facing up and down the slope, without loss of fluids or malfunction.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A
BA-544	<b>2.10 RAM Characteristics</b>	N/A	N/A	N/A	N/A	N/A
BA-545	<b>2.10.1 Reliability</b>	N/A	N/A	N/A	N/A	N/A
BA-549	<p>The Vehicle Mission Reliability, based on the Mission Profile, shall be at least 96%. The definition of a Mission Failure is as defined in STANAG 4158.</p> <p>Mission Reliability (<math>R_M</math>) shall be calculated as follows:</p> $R_M = e^{-\lambda T}$ <p>where:  <math>\lambda = 1 / \text{MKBMF}</math>; and  <math>T = \text{mission profile distance (200 Km)}</math></p>	CON	N/A	<p>POC</p> <p>Provide a reliability analysis report which details the objectives, assumptions, observations, calculations and conclusions derived from a test program to validate the requirement is achieved.</p>	Mandatory Requirement. No points allotted.	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-564	The Vehicle Mean Kilometres Between Mission Failures (MKBMF) shall be no less than 6,000 km. Failures are defined IAW STANAG 4158.	CON	TEST	POC  Provide a reliability analysis report which details the objectives, assumptions, observations, calculations and conclusions derived from a test program to validate the requirement is achieved.	Mandatory Requirement. No points allotted.	
BA-546	<b>2.10.2 Availability</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-550	<p>The Vehicle Inherent Availability, based on continuous usage, shall be at least 95%.</p> <p>Inherent Availability (<math>A_i</math>) shall be calculated as follows:</p> $A_i = \frac{MKBF}{MKBF + MTTR \cdot \left(\frac{200}{8}\right)}$ <p>where:  MKBF = Mean Kilometres Between Failures  MTTR = Mean Time to Repair; and  200/8 = Conversion factor between hours and kilometres based on expected usage as per the mission profile.  Note:  1] A failure is defined as an event or inoperable state in which an item or part of an item does not, or would not, perform as intended or specified. This includes non-mission essential and mission essential function failures.</p>	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A



ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-566	<p>MTTR shall be no greater than 2.0 hrs.</p> <p>MTTR shall be calculated as follows:</p> <p>MTTR = <math>\frac{\text{Total Elapsed Time for Corrective Maintenance}}{\text{Total Number of Basic Failures}}</math></p> <p>Notes:</p> <p>1] Neither preventative maintenance nor crew level maintenance time count against MTTR;</p> <p>2] Elapsed Time for Corrective Maintenance includes time to test and diagnose a failure, time to correct the failure and time to test / verify the repair. Logistics delays such as waiting for parts or waiting for labour (maintenance or administrative) are not included.</p>	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-547	<b>2.10.3 Maintainability</b>	N/A	N/A	N/A	N/A	N/A
BA-551	The Vehicle scheduled preventative maintenance shall be less than once every 5,000 operating kilometres, or twice a year.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-552	The annual scheduled preventative maintenance shall be less than 8 person hours for the cargo variant.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-553	The scheduled Vehicle operator daily inspection shall take no longer than 15 minutes for the cargo variant.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-639	<p>The Vehicle shall be equipped with the necessary means, such as foot steps and hand holds, required for the operator to safely access and conduct the Vehicle operator daily inspection. The inspection shall be achievable while the vehicle is located on various ground conditions and oriented in any direction on grades up to 20%. The operator shall be able to inspect vehicle components and/ or vehicle systems such as, but not limited to, those listed below:</p> <ul style="list-style-type: none"> <li>a. All fluid levels;</li> <li>b. Engine accessory belts;</li> <li>c. Batteries;</li> <li>d. Exhaust system;</li> <li>e. Fuel water separators;</li> <li>f. Fluid and pneumatic lines; and</li> <li>g. Pneumatic reservoir(s) drain(s).</li> </ul>	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-13	<b>2.11 Engine</b>	N/A	N/A	N/A	N/A	N/A
BA-128	The Vehicle shall be equipped with a compression ignition engine capable of operating on the Single Fuel concept IAW STANAG 4362.	CON	N/A	<p>POC - Provide details of engine including make, model and HP rating in this application.</p> <p>Provide a test report or a certificate for use with F34 fuel from the engine manufacturer.</p> <p>Provide HP and torque curves while operating on F-34 fuel versus diesel fuel.</p>	Mandatory Requirement. No points allotted.	
BA-236	The Vehicle shall be provided with an air intake system that is operator serviceable. The air system shall include an in-cab air cleaner restriction indicator visible from the driver's station. If tools are required for air intake system servicing, the tools shall be provided and securely stowed on the Vehicle.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-341	<b>2.12 Exhaust</b>	N/A	N/A	N/A	N/A	N/A
BA-342	The Vehicle exhaust exit shall be located to minimize toxic fumes from entering the Vehicle cab or specialized ISO containers (with upper front, curb side mounted air intake) and from entering the troop carrying systems that may be installed on the Vehicle. MIL-STD 1472, Section 5.13.7.4 shall be used as the constraints for toxic fume exposure.	CON (TEST)	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-520	The Vehicle exhaust system shall be constructed of a corrosion resistant material.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-15	<b>2.13 Cold Starting</b>	N/A	N/A	N/A	N/A	N/A
BA-129	The Vehicle shall be capable of being started in C2 climatic conditions IAW AECTP 230, Edition 1, within 45 minutes, without external assistance, after having been cold soaked for 24 hours at the extreme C2 temperature.	CON (TEST)	N/A	POC - Provide a test report.	Mandatory Requirement. No points allotted.	
BA-650	<b>2.14 Padlocks</b>	N/A	N/A	N/A	N/A	N/A
BA-651	The Vehicle shall be equipped with padlocks for the fuel cap(s), master electrical disconnect switch, transmission shifter, driver's door and all external stowage containers. The padlocks shall be IAW ASTM F 883-04 requirement F2S2. The Vehicle padlock set shall be keyed-alike padlocks. No two Vehicles shall be keyed alike.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-16	<b>2.15 Fuel System</b>	N/A	N/A	N/A	N/A	N/A
BA-130	The Vehicle shall be capable of being refuelled at the full flow rate by commercial pumps, in-service 7000 L refuelling vehicles equipped with a 38 mm diameter fuel nozzle, and from 20 L jerry cans.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-240	The fuel tank(s) shall be constructed of corrosion resistant material with a life expectancy corresponding to the life expectancy of the Vehicle.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-519	Fuel lines shall be of adequate length and be flexible enough to accommodate normal movements of the parts to which it is attached without incurring damage; and be secured to minimize chafing, kinking, or other causes of mechanical damage.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-532	The fuel tank(s) shall be provided with an easily accessible manual drain mechanism.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-538	The fuel tank cap(s) shall be tethered to prevent loss. A label shall be located adjacent to the cap indicating "diesel fuel only".	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-244	The fuel tank cap(s) shall be equipped with a locking mechanism to accept a padlock meeting ASTM F 883-04 requirement F2S2.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-242	The fuel tank(s) shall include a removable device(s) to prevent debris from entering the tank(s) during refuelling. The device shall be serviceable by the operator without the use of tools and shall be tethered to prevent loss.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-17	<b>2.16 Transmission</b>	N/A	N/A	N/A	N/A	N/A
BA-137	The Vehicle shall be equipped with an electronically controlled transmission that shifts automatically in all forward gears, and provides smooth, continuous, uninterrupted power and torque transfer.	CON	N/A	POC - Provide make, model, torque converter lockup speed, trans fluid, gear ratios, and features.	Mandatory Requirement. No points allotted.	
BA-482	A device shall be provided in the cab of the Vehicle to prevent unauthorized shifting of the transmission. The device shall be capable of accepting a padlock meeting ASTM F 883-04, F2S2 requirement.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-18	<b>2.17 Steering</b>	N/A	N/A	N/A	N/A	N/A
BA-139	The Vehicle shall be provided with left hand drive, power assisted steering. A mechanical connection between steering wheel and axle steering mechanisms shall exist under all conditions.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-19	<b>2.18 Driveline</b>	N/A	N/A	N/A	N/A	N/A
BA-140	The Vehicle shall be equipped with all wheel drive. If a part-time all wheel drive capability is provided, the operator shall be capable of engaging and disengaging the front axle(s) while the Vehicle is in motion.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-379	<b>2.19 Brakes</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-380	The Vehicle shall be provided with an Anti-lock Braking System (ABS) that monitors and prevents wheel lock-up at each wheel station.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-642	The Vehicle ABS shall receive/ transmit data with the Trailer ABS.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-250	The air brake system shall be provided with a method of drying the system air and automatically expelling the moisture collected.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-405	The air brake system shall be provided with a method of automatically expelling moisture from the supply reservoir(s) and a method of manually expelling moisture from each service (primary/secondary) reservoir.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-127	The Vehicle shall be provided with a parking brake capable of holding the Vehicle motionless facing in either direction on a hard surfaced 20% slope (dry and free of loose materiel) at GVWR.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-662	The Vehicle stopping performance at GVW shall be in accordance with CMVSS 121 or country of origin vehicle safety standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-44	<b>2.20 Auxiliary Braking</b>	N/A	N/A	N/A	N/A	N/A
BA-252	The Vehicle shall be provided with a modulated, driver-controlled auxiliary braking system; i.e. an engine, exhaust or transmission retarder; to assist and augment the effectiveness of the Vehicle service brake system.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-20	<b>2.21 Wheels and Tires</b>	N/A	N/A	N/A	N/A	N/A
BA-142	The Vehicle shall be provided with non-directional, all-terrain, tubeless, radial tires with a self-cleaning open tread, designed specifically for military vehicles.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-309	The wheel assemblies shall be fitted with beadlocks, and fitted for but not equipped with runflat inserts as detailed in Attachment BA-6.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-146	The Vehicle shall be equipped with one full size spare tire and wheel assembly.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-145	All wheel assemblies, including the spare, shall be interchangeable and shall be bolt-together divided wheels.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-397	The Vehicle shall be equipped with single rear wheel assemblies.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-148	The Vehicle shall be provided with a spare wheel carrier assembly suitable for stowage and deployment of the spare wheel assembly. The carrier shall be able to support a spare wheel assembly fitted with runflats and beadlocks.	CON	N/A	POC - Provide a description of the of the spare wheel carrier assembly in sufficient detail to allow the evaluators to understand what is being proposed (may include photos and/or illustrations).	Mandatory Requirement. No points allotted.	N/A
BA-150	The spare wheel assembly shall not be placed in or interfere with the Vehicle ancillary equipment and cargo or LHS area, and shall be accessible from ground level.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-149	Changing a wheel assembly on the Vehicle, including the removal and remounting of the spare wheel assembly in the carrier, shall be accomplished by no more than two persons, within thirty minutes using only onboard tools.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-429	<b>2.22 Central Tire Inflation System</b>	N/A	N/A	N/A	N/A	N/A
BA-147	The Vehicle shall be equipped with a central tire inflation system (CTIS) which allows for tire pressure adjustment by the Vehicle operator, while sitting in the driver's seat, regardless of whether the Vehicle is stationary or in motion.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-253	<p>The Vehicle CTIS shall permit the driver to select a minimum of the following preset tire pressure settings:</p> <p>Emergency;  Mud/Snow/Sand;  Cross-Country; and  Highway.</p> <p>The CTIS shall continuously monitor the truck speed and warn the driver when the speed exceeds the selected setting after which time the CTIS shall automatically adjust tire pressures to those appropriate to the driving speed.</p>	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-663	The Vehicle shall be equipped with a means, independent of the CTIS, which allows the operator to check, adjust and maintain tire pressure on both the Vehicle and Trailer.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-601	<b>2.23 Tire Chains</b>	N/A	N/A	N/A	N/A	N/A
BA-602	The Vehicle shall be provided with two sets of tire chains (total quantity of 4 tires chains per Vehicle) and one tire chain repair kit. Tire chains and tire chain repair kit are to be stowed IAW Attachment BA-1-76 and BA-1-77.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-144	The Vehicle shall have sufficient space at all wheel stations to allow for the installation of tire chains. The installation of tire chains on the steering axle(s) shall not increase the Vehicle turning circle or affect steering geometry.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-606	<b>2.23.1 Chain Properties</b>	N/A	N/A	N/A	N/A	N/A
BA-613	The tread pattern shall be diagonal or hexagonal.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-607	The chain tread links shall be case hardened to a minimum depth of 6% with a limiting hardness of 550 Hv1 measured at the cross section dimension.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-608	The chain core hardness shall be 400 - 500 Hv 5.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A



ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-609	The surface hardness of the chain tread links shall be 850 +/- 100 Hv 5.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-611	The chain shall have an electrolytic galvanized surface finish with a minimum thickness of 5 micrometers.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-612	The links in the tread pattern shall be made from material with a square cross-section of a nominal 8 mm x 8 mm size.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-615	A welded wear bar shall be provided on the links in the tread pattern portion of the tire chain.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-616	The links in the side chain shall be made from material with a round cross-section of a nominal 7 mm diameter. The side chain shall be attached to the tread pattern links through a series of closed end, welded rings.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-617	The tensioning system shall consist of a tension chain with tensioning spring and safety clip at the loose end. The tensioning chain shall slip through welded suspension rings attached to the tread pattern links, and be tightened with the tensioning lever and "handing back" link with safety device.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-23	<b>2.24 Frame</b>	N/A	N/A	N/A	N/A	N/A
BA-152	The frame shall be capable of withstanding the forces exerted by Vehicle and ancillary equipment, under normal operating conditions in accordance with the mission profile, without deformation or damage for the life expectancy of the Vehicle.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-24	<b>2.25 Electrical System</b>	N/A	N/A	N/A	N/A	N/A
BA-664	The Vehicle electrical system shall be compliant with MIL-STD-1275.	N/A	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-153	The Vehicle shall be equipped with a 24 Volt Direct Current (24 VDC), negative ground system IAW STANAG 2601 for all electrical components as described that require 24 VDC. Dual voltage 12 VDC/ 24 VDC negative ground systems which meet the requirements of all of the components requiring 24 VDC are acceptable.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-665	<b>2.25.1 Electrical System Capacity</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-154	<p>The Vehicle electrical system shall produce sufficient output to satisfy the Vehicle chassis electrical power requirements plus it shall provide an additional 175 amps at 24 VDC to accommodate the following receptacles:</p> <ul style="list-style-type: none"> <li>· 30 amps at 24 VDC for equipment detailed in BA-157 (SEV);</li> <li>· 50 amps at 24 VDC for equipment detailed in Attachment BA-3;</li> <li>· 10 amps at 24 VDC for equipment detailed in Attachment BA-3;</li> <li>· 80 amps at 24 VDC for equipment detailed in Attachment BA-3;</li> <li>· 50 amps at 24 VDC for equipment detailed in Attachment BA-5;and</li> <li>· 40 amps at 24 VDC for equipment detailed in Attachment BA-6.</li> </ul>	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-666	<b>2.25.2 Electrical Switches and Receptacles</b>	N/A	N/A	N/A	N/A	N/A
BA-195	The Vehicle shall be equipped with a master electrical disconnect switch that can be locked in both the "ON" or "OFF" position with a padlock. The master electrical disconnect switch shall isolate the complete Vehicle electrical system and all electrical loads from the Vehicle batteries except for those that would potentially cause an unsafe condition if shut down "hot".	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-156	The Vehicle shall be provided with a Type 1, NATO standard auxiliary-start receptacle, IAW STANAG 4074, mounted in an accessible location.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-157	The Vehicle shall be provided with a 24 VDC power receptacle, activated by the Vehicle ignition, to allow powering of equipment or SEV shelters located on the cargo bed or LHS. The receptacle shall have circuit protection rated to 30 amps. The receptacle shall include a connector and cover IAW Dwg 8281186. The receptacle shall be located along the vehicle frame on the curb side of the Vehicle, below the front bulk head of the cargo bed on the Cargo Vehicles (Configurations "A", "B", "C" and "E") and below the position of where the front wall of an ISO Container will be when placed on the LHS Vehicle (Configuration "D").	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-496	The Vehicle shall be provided with one power receptacle rated to 50 amps at 24 VDC (for radio equipment) protected with a circuit breaker. The receptacle shall include a connector IAW MS3102R22-2S and a protective cover IAW MS25043-22DA (Ref DND Dwg 9277521). The outlet shall be mounted securely on an accessible location in the Vehicle cab near the tactical radios and shall be identified / labelled. The receptacle shall be labelled with the voltage and current rating.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-678	The Vehicle shall be provided with one power receptacle rated to 10 amps at 24 VDC (for the WES equipment) protected with a circuit breaker. The outlet shall include a connector IAW MS3102R22-2S, and a protective cover IAW MS25043-22DA (Ref DND Dwg 9277521). The outlet shall be mounted securely on an accessible location in the Vehicle cab near the tactical radios. The receptacle shall be labelled with the voltage and current rating.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-155	The Vehicle shall be provided with a trailer receptacle, IAW STANAG 4007 Edition 2, mounted at the rear of the Vehicle to the left of centre within 500mm of the pintle assembly.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-280	The Vehicle shall be equipped with a commercial, seven-pin, 12 VDC, trailer receptacle IAW SAE J560 located at the rear of the Vehicle within 500mm of the pintle assembly.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-667	<b>2.25.3 Electrical Grounds</b>	N/A	N/A	N/A	N/A	N/A
BA-502	The cargo bed / flat deck shall be grounded to the Vehicle frame by the use of a grounding strap(s).	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-503	The Vehicle shall be fitted for, but not with, an anti-static strap IAW NSN 5920-00-636-3231.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-55	<b>2.25.4 Maintenance Free Batteries</b>	N/A	N/A	N/A	N/A	N/A
BA-281	The Vehicle shall be provided with maintenance free batteries IAW MIL-PRF-32143. Each battery shall have a minimum capacity of 120 amp-hours and a cold cranking ampere (CCA) capacity of at least 1225.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-517	<b>2.26 Vehicle Lighting</b>	N/A	N/A	N/A	N/A	N/A
BA-518	The Vehicle shall not be provided with day time running lights.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-25	<b>2.27 Military Lighting System</b>	N/A	N/A	N/A	N/A	N/A
BA-158	The Vehicle shall be provided with a military blackout lighting system IAW STANAG 4381.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-159	The Vehicle shall be provided with a master vehicle light switch (MVLS), NSN 5930-01-491-9893, to control the military blackout lighting system.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-410	During blackout conditions, warning indicators shall illuminate.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-27	<b>2.28 Cab</b>	N/A	N/A	N/A	N/A	N/A
BA-161	The Vehicle shall be equipped with a cab system configured to provide seating for two crew members.	CON	N/A	POC - Provide a description of the of the cab seating in sufficient detail to allow the evaluators to understand what is being proposed. The description must include the number of occupants as well as the features included on each seat (e.g. adjustments, air ride seats).	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-162	The cab structure shall be configured to allow a male soldier of 95 <sup>th</sup> percentile weight carrying a 25 kg load to climb on/over the Vehicle cab during camouflaging or other operations where access to the top side / roof of the Vehicle is required. This shall be possible without damaging any part of the cab/body. The areas where a soldier will step during these operations shall have non-slip surfaces IAW MIL-PRF-24667, type 1. Areas, where no stepping is permitted, shall be marked "NO STEP".	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-274	The Vehicle (without APS) shall be equipped with a drain(s) to eliminate water accumulation on the cab floor.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-69	<b>2.28.1 Doors</b>	N/A	N/A	N/A	N/A	N/A
BA-165	The Vehicle shall be provided with a minimum of two doors which can be locked/unlocked from the inside of the cab, when the doors are closed.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-166	The driver's door shall be provided with a mechanism that allows the door to be locked from the outside with a padlock meeting ASTM F883-04, F2S2 requirement.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-70	<b>2.28.2 Seats</b>	N/A	N/A	N/A	N/A	N/A
BA-168	The driver's seat shall be IAW MIL-STD 1472, para 5.12.2.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-169	Seats shall be covered with water resistant, rip-stop, breathable, durable material IAW A-A-59403, Type II.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-313	The cab shall be provided with seatbelts for all in-cab crew seats. Each seat belt shall provide pelvic and upper torso restraint. The seatbelts, seatbelt anchorages and seat assemblies shall meet applicable country of origin laws, regulations and industry standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-71	<b>2.28.3 Visibility</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-398	The Vehicle shall meet the visibility requirements IAW MIL-STD-1472, para. 5.12.5 with the exception that there is no specific requirement for the provision for manual operation of wipers in the case of power failure (included in para. 5.12.5.7).	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-174	The Vehicle shall be equipped with Type III external, rear-view mirrors IAW A-A-52432A or applicable country of origin laws, regulations, and industry standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-181	The Vehicle shall be equipped with electrically powered, variable speed windshield wipers and an electrically powered windshield washing system.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-269	The Vehicle shall be equipped with rotational and pivotal interior visors, or other means, to protect the driver and co-driver from glare through the windshield and side windows. The sun visors shall be constructed of non-reflective material.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-385	The cab shall be equipped with separate, interchangeable wipers.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-73	<b>2.28.4 High Idle Control</b>	N/A	N/A	N/A	N/A	N/A
BA-183	The Vehicle shall be equipped with a device, separate from the fuel pedal, that allows the operator to control the engine speed under variable load conditions such as winch, crane, and LHS operations.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-74	<b>2.28.5 Temperature and Control</b>	N/A	N/A	N/A	N/A	N/A
BA-454	The Vehicle, configured with and without an APS, shall be equipped with an engine-driven air conditioning system IAW MIL-STD-1472, para's 5.8.1.3 through 5.8.1.8.	CON (TEST)	N/A	POC - Provide a test report.	Mandatory Requirement. No points allotted.	
BA-184	The Vehicle, configured with and without an APS, shall be equipped with a heater/ defroster/ventilation system IAW MIL-STD-1472, para 5.12.6.1, 5.12.6.2 and 5.12.6.3.	CON (TEST)	N/A	POC - Provide a test report.	Mandatory Requirement. No points allotted.	
BA-185	The HVAC air distribution system shall be selectable by the driver to direct the airflow towards the windshield, driver's and passenger's feet and upper torsos.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-407	The HVAC air distribution system shall prevent water, sand, dust and debris from entering the system.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-399	The Vehicle windshield defrosting and defogging system, configured with and without an APS in the case of Add-On-Armour, shall be equipped with a windshield defrosting system that clears the operator's field of view through driver's and passenger's side of the front windshield and the portion of the left and right hand side window's forward of his seated position.	CON (TEST)	N/A	POC - Provide a test report.	Mandatory Requirement. No points allotted.	
BA-316	<b>2.28.6 12 VDC Outlets</b>	N/A	N/A	N/A	N/A	N/A
BA-317	The cab shall be equipped with two 12 VDC outlets, IAW SAE/USCAR-4, accessible by the driver and co-driver.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-76	<b>2.28.7 Ignition</b>	N/A	N/A	N/A	N/A	N/A
BA-186	The ignition system shall be designed to permit starting of the Vehicle without the use of an external device such as a key or electronic key fob.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-189	<b>2.28.8 Turn Signal</b>	N/A	N/A	N/A	N/A	N/A
BA-190	Turn signals shall be self-cancelling.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-533	<b>2.28.9 Windows</b>	N/A	N/A	N/A	N/A	N/A
BA-534	The Vehicle windshield shall be provided with laminated safety glass that meets applicable country of origin laws, regulations and industry standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-537	The Vehicle windows, with the exception of the windshield, shall be provided with tempered safety glass that meets applicable country of origin laws, regulations and industry standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-77	<b>2.28.10 Instruments and Switches</b>	N/A	N/A	N/A	N/A	N/A
BA-191	The cab shall be equipped with instruments and controls arranged for left hand drive.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-64	<b>2.28.11 Map and Document Storage</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-271	The cab shall be equipped with a minimum of two storage areas of sufficient size to accommodate the Vehicle operator manual and legal sized documents such as maps and papers.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-349	<b>2.28.12 Map Reading Light</b>	N/A	N/A	N/A	N/A	N/A
BA-350	The cab shall be equipped with a permanently mounted map reading light fitted with both a clear and blue lens accessible by the driver and co-driver.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-421	<b>2.28.13 Audible Warning Device</b>	N/A	N/A	N/A	N/A	N/A
BA-272	The Vehicle shall be equipped with a horn that meets applicable country of origin laws, regulations and industry standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-28	<b>2.29 Bumpers, Brush Guards and Protection Plates</b>	N/A	N/A	N/A	N/A	N/A
BA-196	The Vehicle shall be equipped with a front bumper capable of withstanding the rigors of cross-country operation.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-197	The Vehicle shall be equipped with brush guards to protect the radiator, headlights, marker lights, wiring and taillights during off-road operations as well as protective skid plates whereby all vulnerable parts shall be protected from damage during operations.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-198	The bumpers, protective skid plates, and brush guards shall not interfere with the routine maintenance operations or the APS.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-581	<b>2.30 Wheel Splash and Stone Throw Protection</b>	N/A	N/A	N/A	N/A	N/A
BA-582	The Vehicle shall be provided with mud flaps behind the front and rear wheels.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-583	The Vehicle shall be provided with wheel splash and stone throw protection above all wheels.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-29	<b>2.31 Stowage Requirements</b>	N/A	N/A	N/A	N/A	N/A
BA-199	The Vehicle shall be provided with space, carrying capacity and mounting provisions as required, to stow and secure the Standard Kit and Equipment as described in Attachment BA-1. Items identified as "included with vehicle" or "included with and installed in vehicle" in the remarks column of Attachment BA-1 are to be delivered with the Vehicle.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A



ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-383	External stowage containers shall protect the contents from the environment and shall have a locking mechanism to accept a padlock meeting ASTM F883-04 requirement F2S2.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-660	The Vehicle shall be equipped with external, weatherproof metal stowage containers(s). All stowage containers shall be equipped with drain holes.  Containers are to be tested IAW MIL-STD 810, Method 506.4 Rain Procedure I (rain and blowing rain). Any evidence of water ingress or degradation of performance due to exposure to rainfall will be cause for rejection	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-30	<b>2.32 Protection and Survivability</b>	N/A	N/A	N/A	N/A	N/A
BA-423	The Armour Protection System (APS) shall comply with the requirements in Attachment BA-6.	N/A	N/A	Information Only	Information Only	N/A
BA-501	<b>2.33 Hazardous Material Transport</b>	N/A	N/A	N/A	N/A	N/A
BA-560	The Vehicle shall be provided with space claim and mounting provisions for both, a 2.5 kg and a 9 kg, Class 2 fire extinguisher with mounting bracket IAW D-97-001-017/SF-001. The mounting provisions for the 9 kg fire extinguisher shall be in a location that is near the front of the vehicle and easily accessible from ground level.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-561	The Vehicle shall be provided with placard holders IAW C-04-040-017/ME-001.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-32	<b>2.34 Towing and Recovery</b>	N/A	N/A	N/A	N/A	N/A
BA-200	The Vehicle shall comply with STANAG 4478.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-460	The Vehicle shall be capable of being recovered by the Canadian Forces wheeled recovery vehicles, commercial recovery vehicles, and NATO standard recovery vehicles.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-442	The Vehicle shall be capable of being flat towed for not less than 80 km at 50 km/h with minimum preparation.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-443	The Vehicle at GVWR shall be capable of being front suspended towed for not less than 80 km at 50 km/h with minimum preparation.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-202	The SMP Vehicle and trailer gladhands will be configured as illustrated in Schedule BA-2 per STANAG 2604 as follows: - Position of connectors; per Para 4, Table 1, and Figure 1. - Nomenclature to be used for Gladhands and brake lines is: "Service" and "Emergency" - Identification of connectors; Colour markings will be: - Service Gladhands Braking Lines = Blue - Emergency Gladhands Braking Lines = Red	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-684	The Vehicle gladhands shall be protected from damage during operation.	N/A	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-203	The Vehicle shall be equipped with provisions for attaching secondary towed equipment safety chains adjacent to the towing pintle.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-212	<b>2.34.1 Towing Pintle</b>	N/A	N/A	N/A	N/A	N/A
BA-213	A swivel type, greaseable, towing pintle assembly shall be provided at the rear of the Vehicle capable of accepting a towing eye IAW STANAG 4101. The pintle mount shall allow for the hook-up of legacy trailers identified in BA-4 whose towing eye height range from 80 to 100cm. The pintle mount shall allow for the hook-up and towing of legacy trailers at their prescribed towing eye heights as identified in BA-4, and whose towing eye heights range from 80 to 100cm.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-105	The Vehicle shall tow the trailers and equipment detailed in SMP Attachment BA-4. Minimum Drawbar articulation angle will be IAW STANAG 4101. The trailers and equipment will not be loaded to exceed the rated capacities of the vehicle.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-33	<b>2.35 Paint and Surfaces</b>	N/A	N/A	N/A	N/A	N/A
BA-333	The Vehicle shall be coated with Chemical Agent Resistant Coating (CARC) system IAW MIL-DTL-53072.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-336	The exterior topcoat shall be IAW MIL-DTL-64159 Type II or MIL-C-53039, colour 34094 (flat green) IAW Fed-Std-595.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-661	The Vehicle exterior topcoat paint colour and gloss shall match for all exterior surfaces.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-337	Painted interior surfaces of the Vehicle shall be IAW MIL-PRF-22750, colour 34094 (flat green) IAW Fed-Std-595.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-530	The Vehicle underbody shall have a corrosion preventative coating system IAW SAE J1959 or applicable country of origin laws, regulations and industry standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-444	The Vehicle design, materials used in fabrication, surface preparation products, paint system and the corrosion preventative coatings shall function together as a system to prevent to the greatest extent possible corrosion related failures of the Vehicle for the duration of the 20 year service life.	CON	N/A	POC	Mandatory Requirement. No points allotted.	
BA-427	All areas where a soldier may step to carry out any functions and duties related to camouflaging, operating, maintaining or servicing the Vehicle including all installed systems, subsystems and components shall have non-slip surfaces IAW MIL-PRF-24667, Type I.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-428	Non-painted interior surfaces of the Vehicle shall be non-reflective and of a dark, muted colour.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-412	<b>2.36 Identification</b>	N/A	N/A	N/A	N/A	N/A
BA-287	The Vehicle shall be provided with license plate holders IAW SAE J686 at the front and rear.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-413	<b>2.37 Data Plates</b>	N/A	N/A	N/A	N/A	N/A
BA-432	Data plates, decals and markings shall be bilingual, English and French. Plates shall be IAW A-A-50271.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-289	The Vehicle shall be equipped with warning or precautionary markings provided where necessary to protect personnel and equipment.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-541	Warning or precautionary markings on the Vehicle shall use graphic symbols IAW STANAG 4050.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-288	The following information shall be permanently affixed in a conspicuous and protected location: a. The manufacturer's name, model number, model year and Vehicle Identification Number (VIN); b. The GVWR, GAWR and GCWR ratings; and c. The load data IAW MIL-STD-209K, para 5.7.1 Shipping data plate..	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-224	<b>2.38 Electronic Equipment System Requirements</b>	N/A	N/A	N/A	N/A	N/A
BA-461	<b>2.38.1 Space Allocation</b>	N/A	N/A	N/A	N/A	N/A
BA-464	The Vehicle shall be provided with space and mounting provisions inside the cab to allow for the installation of the electronic equipment detailed in Attachment BA-3.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-658	<b>2.38.2 EM/EMC and RF Safety</b>	N/A	N/A	N/A	N/A	N/A
BA-659	The Vehicle shall be compliant with MIL-STD-464. The components and subsystems of the Vehicle shall be compliant with the requirement of MIL-STD-461 and MIL-STD-1686 for Ground Army applications.	CAN	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-34	<b>2.39 Human Factors/Ergonomics</b>	N/A	N/A	N/A	N/A	N/A
BA-400	The steady state interior noise level for personnel in the cab shall not exceed 85 dB(A) IAW MIL-STD-1474, Requirement 1, Category D.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-401	The Vehicle shall be designed to control the transmission of vibration to occupants IAW MIL-STD-1472 para 5.8.4.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-685	<b>2.40 – Power Take-Off (PTO)</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-686	The LHS, Cargo with Crane, MRT and Gun Tractor variants must be equipped with a power take-off unit with an over-speed protection feature, suitable for powering ancillary equipment that may be installed on the vehicle. The PTO installation shall allow the Operator to make vehicle position adjustment while the PTO is engaged.  The Cargo variant must be fitted with all the required mounting provisions for the PTO but will not be equipped with the PTO.	CON	N/A	SOC	Mandatory Requirement No points allotted.	N/A
BA-4	<b>3 VEHICLE REQUIREMENTS - RATED CRITERIA</b>	N/A	N/A	N/A	N/A	N/A
BA-573	<b>3.1 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-434	<b>3.2 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-37	<b>3.3 Vehicle Payload</b>	N/A	N/A	N/A	N/A	N/A
BA-486	The Vehicle loaded to GVW should carry a payload up to 10,000 kg.	CON	TEST	POC - Provide vehicle specification sheet for each variant. The following details (defined in Appendix BH to Annex B Part 7) must be included; - Gross Vehicle Weight Rating - Gross Combination Weight Rating - [A] Curb Weight - [B] Payload - [C] APS Weight - [D] Trailer Tongue Weight - [E] Gross Vehicle	Points (%) will be allotted as defined below. Let P = Payload (kg) If P < 8500 kg; then allotted points = 0% If P >= 8500 kg and P < 9000 kg; then allotted points = 25% If P >= 9000 kg and P < 9500 kg; then allotted points = 50% If P >= 9500 kg and P < 10000kg; then allotted points = 75% If P >= 10000 kg; then allotted points = 100%	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
				Weight, without APS [A+B] - [F] Gross Vehicle Weight [A+B+C] - [G] Gross Vehicle Weight, with trailer - connected [A+B+C+D] - [H] Gross Trailer Weight - [I] Gross Combination Weight = [F+H] - Gross Axle Weight Rating - 1st (Front) - Gross Axle Weight Rating - 2nd - Gross Axle Weight Rating - 3rd - Gross Axle Weight Rating - 4th (If Applicable)  For all variants, provide all axle and wheel loads at GVW for the following payload scenarios: a. C of G located at "A"  b. C of G located at		

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
				<p>"B"</p> <p>Additionally, for each Variant, provide graphs that show the payload C of G weight distribution curve. Two graphs per Vehicle are required one with and one without APS installed. Figure 2 Schedule BA-1 Weight Distribution diagram is provided as a sample.</p>		
BA-512	<b>3.4 Performance</b>	N/A	N/A	N/A	N/A	N/A
BA-514	The Vehicle should have the shortest possible acceleration time, from 0 km/h to 80 km/h, while at GVW.	CON	TEST	N/R	<p>Points (%) will be allotted as defined below.  Let t = time, in seconds, to accelerate from 0 to 80 km/h.  If t &gt; 50 then allocated points = 0%.  If t &lt; 20 Then allocated points = 100%.  Otherwise the allotted points will be calculated as follows:  Points (%) = <math>\frac{1}{3} \times (-10 \times t + 500)</math></p>	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-120	The Vehicle should be capable of sustained speeds on flat, hard-surfaced roads of up to 110 km/h.	CON	TEST	N/R	Points (%) will be allotted as defined below. Let S = Speed (km/h) If S < 90 km/h; then allotted points = 0% If S > 110 km/h; then allotted points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = $-450 + 5 \times S$	
BA-526	The Vehicle should have the lowest possible Particulate Matter emissions, while running on diesel fuel conforming to CAN/CGSB-3.517 or country of origin standards.	CON	N/A	POC – Provide a test report.	Points (%) will be allotted as defined below.  Let PM = Particulate Matter in g/kW-hr If PM > 0.13; then allocated points = 0%. If PM < 0.01; then allocated points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = $1/3 \times (325 - 2500 \times PM)$	



ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-636	The Vehicle should have the lowest possible Nitrogen Oxide emissions, while running on diesel fuel conforming to CAN/CGSB-3.517 or country of origin standards.	CON	N/A	POC – Provide a test report.	Points (%) will be allotted as defined below.  Let NOx = Nitrogen Oxide in g/kW-hr If NOx > 3.5; then allocated points = 0%. If NOx < 0.27; then allocated points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = $10000/323 \times (35 - \text{NOx})$	
BA-634	The Vehicle engine platform and associated electronic engine control module(s) and emissions systems should convert to function with F-34 without preparation.	CON	N/A	POC - Provide a detailed instruction describing what is required (in time and effort) to operate and convert the Vehicle engine and associated systems to function with F-34.	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-528	<p>The Vehicle at GVW should have the lowest possible Ground Pressure MMP, IAW UK Def Standard 23-6, Issue 4, Clause 20. The MMP shall be calculated using Larminie's formula for fine grained soil which is:</p> $MMP = \frac{K' \times W}{2m \times [b]^{0.85} \times [d]^{1.15} \times [\delta/d]^{0.5}}$ <p>where:</p> <p>K' = axle factor (1.95 for 6X6, 2.05 for 8X8)</p> <p>W = Gross Vehicle Weight (kN) when payload equals 8,000kg</p> <p>m = number of axles</p> <p>b = tire width, unladen (metres)</p> <p>d = tire diameter, unladen (metres)</p> <p><math>\delta</math> = tire deflection (metres) when vehicle weight equals W</p> <p>Notes:</p> <p>a. For the purpose of standardization, tire diameter " d " is the diameter taken at the base of the tread pattern;</p> <p>b. Tire deflection "<math>\delta</math>" is as measured on a hard surface. In general cases, the deflection used is that with modest deflation for off-road work: that is " x 1.3 " the deflection quoted for high speed running on highways; and</p> <p>c. the above information on Mean Maximum Pressure is taken from the Journal of Terramechanics, Volume 29, No. 2, pp. 239-255, March 1992 (ISSN 0022-4898).</p>	CON	N/A	POC – Provide calculation and details to substantiate numbers used.	<p>Points (%) will be allotted as defined below.</p> <p>Let MMP = Mean Maximum Pressure (kPa)</p> <p>If MMP &gt; 450 kPa; then allotted points = 0%</p> <p>If MMP &lt; 350 kPa; then allotted points = 100%</p> <p>Otherwise the allotted points will be calculated as follows:</p> <p>Points (%) = 450 - MMP</p>	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-542	The Vehicle should be able to maintain a speed of 80 km/h at GVW on hard-surfaced grades up to 5%.	CON	TEST	N/R	Points (%) will be allotted as defined below. Let G = Grade (%) If G <2; then allotted points = 0% If G >= 5; then allotted points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = -200/3 + 100/3 x G	
BA-543	The cargo with crane, gun tractor, MRT and LHS variants should be able to climb and descend, at all loading conditions up to and including GVW, with intermediate stops, on a hard surfaced 60% slope (dry and free of loose materiel) in a controlled manner, in both forward and reverse direction, without loss of fluids or malfunction.	CON	TEST	POC – provide specification sheet or test report unique to each variant that shows the requirement is met.	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-516	The Vehicle stopping distance from 55 mph (88.6 km/h) to 0 mph at GVW, without any part of the Vehicle leaving a 12 ft (3.6 m) lane, should be as short as possible.  Stopping distance will be assessed on a dry paved surface with minimal grade.	CON	TEST	N/R	Points (%) will be allotted as defined below. Let SD = Stopping Distance (m) If SD > 80 m; then allotted points = 0% If SD < 62 m; then allotted points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = -100/18 x SD + 8000/18	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-531	The Vehicle should be capable of attaining a static rollover threshold (ROT) up to 40 degrees at GVW. The ROT will be measured using the procedures IAW SAE J2180.	CON	TEST	N/R	Points (%) will be allotted as defined below. Let ROT = Rollover Threshold (degrees) If ROT < 30 degrees; then allotted points = 0% If ROT > 40 degrees; then allotted points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = $-300 + 10 \times \text{ROT}$	
BA-435	<b>3.5 Mobility</b>	N/A	N/A	N/A	N/A	N/A
BA-437	Vehicle ground clearance should be greater than 350 mm.  This will be measured with the Vehicle at GVW and tire pressure adjusted to off road inflation pressure. Ground clearance will be measured from the lowest point under the vehicle excluding the wheel stations.	CON	N/A	POC – For the each variant provide a test report or an illustrated data sheet that states the vehicle's GVW, off road tire pressure and shows the measuring points on the vehicles that were used.	The Bidder's variant with the least (worst) ground clearance will be used for point allocation. Points (%) will be allotted as defined below. Let GC = Ground Clearance (mm) If GC < 350 mm; then allotted points = 0% If GC > 450 mm; then allotted points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = $\text{GC} - 350$	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-524	<p>The Vehicle ramp breakover angle should be no greater than 155 degrees (angle is measured IAW SAE J1100 dimension A147).</p> <p>This will be measured with the Vehicle at GVW and tire pressure adjusted to off road inflation pressure.</p>	CON	N/A	POC - For each variant provide a test report or an illustrated data sheet that states the vehicle's GVW, off road tire pressure and shows the measuring points on the vehicles that were used.	<p>The Bidder's variant with highest (worst) ramp breakover angle will be used for point allocation. Points (%) will be allotted as defined below.</p> <p>Let RBA = Ramp Breakover Angle (degrees)</p> <p>If RBA &gt; 155 degrees;  then allotted points = 0%</p> <p>If RBA &lt; 137 degrees;  then allotted points = 100%</p> <p>Otherwise the allotted points will be calculated as follows:  Points (%) = <math>1/9 \times (7750 - 50 \times \text{RBA})</math></p>	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-438	The Vehicle should have a turning circle at GVW of no greater than 33 m wall-to-wall.	CON	N/A	POC - For each variant provide a test report or a dimensioned, illustrated data sheet that shows the vehicle at GVW within its achievable turning circle.	The Bidder's variant with the largest (worst) turning circle will be used for point allocation. Points (%) will be allotted as defined below. Let TC = Turning Circle (m) If TC > 33 m; then allotted points = 0% If TC < 19 m; then allotted points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = $1/7 \times (1650 - 50 \times TC)$	
BA-682	The Vehicle should have a turning circle at GCW of no greater than 33 m wall-to-wall.	CON	N/A	POC - For the each variant provide a test report or a dimensioned, illustrated data sheet that shows the Vehicle and Trailer at GCW within their achievable turning circle.	The Bidder's variant with the largest (worst) turning circle will be used for point allocation. Points (%) will be allotted as defined below. Let TC = Turning Circle (m) If TC > 33 m; then allotted points = 0% If TC < 19 m; then allotted points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = $1/7 \times (1650 - 50 \times TC)$	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-234	The Vehicle should be capable of fording a water obstacle to a depth of 1500 mm IAW STANAG 2805 within a maximum preparation time of 15 minutes using on-board equipment, and a crew of two.	CON	N/A	POC - provide test report that includes preparation requirements and time required to complete preparations.	Points (%) will be allotted as defined below. Let FD = Fording Depth (m) If FD < 1000 mm; then allotted points = 0% If FD >= 1000mm and FD < 1250 mm; then allotted points = 33% If FD >= 1250mm and FD < 1500 mm; then allotted points = 67% If FD >= 1500 mm; then allotted points = 100%	
BA-384	The Vehicle angle of approach should be up to 50 degrees (angle is measured IAW SAE J1100, dimension A106-1).  This will be measured with the Vehicle at GVW and tire pressure adjusted to off road inflation pressure.	CON	N/A	POC - For the each variant provide a test report or an illustrated data sheet that states the vehicle's GVW, off road tire pressure and shows the measuring points on the vehicles that were used.	The Bidder's variant with the lowest (worst) angle of approach will be used for point allocation. Points (%) will be allotted as defined below. Let AA = Approach Angle (degrees) If AA < 25 degrees; then allotted points = 0% If AA > 50 degrees; then allotted points = 100% Otherwise the allotted points will be calculated as follows: Points (%) = -100 + 4 x AA	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-393	<p>The Vehicle angle of departure should be up to 38 degrees (angle is measured IAW SAE J1100 dimension A106-2).</p> <p>This will be measured with the Vehicle at GVW and tire pressure adjusted to off road inflation pressure.</p>	CON	N/A	POC - For the each variant provide a test report or an illustrated data sheet that states the vehicle's GVW, off road tire pressure and shows the measuring points on the vehicles that were used.	<p>The Bidder's variant with the lowest (worst) angle of departure will be used for point allocation. Points (%) will be allotted as defined below.</p> <p>Let DA = Departure Angle (degrees)</p> <p>If DA &lt; 18 degrees; then allotted points = 0%</p> <p>If DA &gt; 38 degrees; then allotted points = 100%</p> <p>Otherwise the allotted points will be calculated as follows:</p> <p>Points (%) = <math>-90 + 5 \times DA</math></p>	
BA-644	<p>The Vehicle at GVW should attain a drawbar pull of up to 0.5 of GVW on fine grained soil.</p>	CON	TEST	N/R	<p>Points (%) will be allotted as defined below.</p> <p>Let DP = Drawbar Pull</p> <p>If DP &lt; 0.4; then allotted points = 0%</p> <p>If DP &gt;= 0.5; then allotted points = 100%</p> <p>Otherwise the allotted points will be calculated as follows:</p> <p>Points (%) = <math>-25 + DP \times 250</math></p>	



ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-668	The Vehicle at GVW should ascend sand grades up to 45%.	CON	TEST	N/R	<p>Points (%) will be allotted as defined below.  Let SG = Grade (%)  If SG &lt; 30; then allotted points = 0%  If SG &gt;= 45; then allotted points = 100%</p> <p>Otherwise the allotted points will be calculated as follows:</p> <p>Points (%) = <math>25 + SG \times \frac{5}{3}</math></p>	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference										
BA-645	<p>The Vehicle should attain no more than 6 watts average vertical absorbed power, as measured at the driver's location (not including energy absorbed by the seat), while negotiating the following Root Mean Square (RMS) ride courses at speeds listed below, with the tires at normal cross country inflation pressure.</p> <table><tr><td>RMS (inches)</td><td>1.0</td><td>1.2</td><td>2.4</td><td>3.6</td></tr><tr><td>km/h</td><td>55 – 75</td><td>45 – 60</td><td>20 – 30</td><td>15 - 20</td></tr></table>	RMS (inches)	1.0	1.2	2.4	3.6	km/h	55 – 75	45 – 60	20 – 30	15 - 20	CON	TEST	N/R	<p>Points (%) will be allotted as defined below. P1.0 = Points at 1.0 in RMS Let S1 = Speed (km/h) at 1.0in. RMS If S1 &lt; 55km/hr; then allotted points = 0% If S1 &gt; 75km/hr; then allotted points = 10% Points (%) = 0.1 x (-275 + 5 x S1)</p> <p>P1.2 = Points at 1.2 in RMS Let S1.2 = Speed (km/h) at 1.2in. RMS If S1.2 &lt; 45km/hr; then allotted points = 0% If S1.2 &gt; 60km/hr; then allotted points = 15% Points (%) = S1.2 - 45</p> <p>P2.4 = Points at 2.4 in RMS Let S2.4 = Speed (km/h) at 2.4in. RMS If S2.4 &lt; 20km/hr; then allotted points = 0% If S2.4 &gt; 30km/hr; then allotted points = 35% Points (%) = 0.35 x (-200 + 10 x S2.4)</p> <p>P 3.6 = Points at 3.6 in RMS Let S3.6 = Speed (km/h) at 3.0in. RMS If S3.6 &lt; 15km/hr; then allotted points = 0% If S3.6 &gt; 20km/hr; then allotted points = 40% Points (%) = 0.4 x (-300 + 20 x S3.6)</p> <p>Total Points (%) = P1 + P1.2 + P2.4 + P3.6</p>	
RMS (inches)	1.0	1.2	2.4	3.6												
km/h	55 – 75	45 – 60	20 – 30	15 - 20												

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference										
BA-670	<p>The Vehicle should attain no more than 2.5g vertical acceleration, as measured at the driver's location (not including energy absorbed by the seat), while negotiating the following half round courses at speeds listed below, with the tires at normal cross country inflation pressure.</p> <table><tr><td>Half Round (inches)</td><td>6</td><td>8</td><td>10</td><td>12</td></tr><tr><td>Speed (km/h)</td><td>45-50</td><td>25-30</td><td>20-25</td><td>15-18</td></tr></table>	Half Round (inches)	6	8	10	12	Speed (km/h)	45-50	25-30	20-25	15-18	CON	TEST	N/R	<p>Points (%) will be allotted as defined below. P6 = Points at 6.0" half round Let S6 = Speed (km/h) at 6.0" half round If S6 &lt; 45km/hr; then allotted points = 0% If S6 &gt; 50km/hr; then allotted points = 10% Points (%) = 0.1 x (-900 + 20 x S6)</p> <p>P8 = Points at 8.0" half round Let S8 = Speed (km/h) at 8.0" half round If S8 &lt; 25km/hr; then allotted points = 0% If S8 &gt; 30km/hr; then allotted points = 15% Points (%) = 0.15 x (-500 + 20 x S8)</p> <p>P10 = Points at 10.0" half round Let S10 = Speed (km/h) at 10.0" half round If S10 &lt; 20km/hr; then allotted points = 0% If S10 &gt; 25km/hr; then allotted points = 35% Points (%) = 0.35 x (-400 + 20 x S10)</p> <p>P12 = Points at 12.0" half round Let S12 = Speed (km/h) at 12.0" half round If S12 &lt; 15km/hr; then allotted points = 0% If S12 &gt; 18km/hr; then allotted points = 40% Points (%) = 0.4 x (-500 + 100 x S12/3)</p> <p>Total Points (%) = P6 + P8 + P10 + P12</p>	
Half Round (inches)	6	8	10	12												
Speed (km/h)	45-50	25-30	20-25	15-18												

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-646	<p>The Vehicle should attain a lane change speed of up to 90km/h at GVW.</p> <p>This requirement will be assessed using the course defined in AVTP 03-160W, Annex A.</p>	CON	TEST	N/R	<p>Points (%) will be allotted as defined below.  Let S = Speed (km/h)  If S &lt; 70 km/h; then  allotted points = 0%  If S &gt; 90 km/h; then  allotted points = 100%  Otherwise the allotted points will be calculated as follows:  Points (%) = <math>-25/2 + S \times 5/4</math></p>	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-557	<b>3.6 RAMD Characteristics</b>	N/A	N/A	N/A	N/A	N/A
BA-558	<b>3.6.1 Maintainability</b>	N/A	N/A	N/A	N/A	N/A
BA-556	<p>The Vehicle operator daily inspection should be able to be performed by the operator while standing on the ground outside the Vehicle, and/or by the operator while seated in the cab.</p> <p>The operator inspection shall include inspection of vehicle components and/ or vehicle systems such as, but not limited to those listed below:</p> <ul style="list-style-type: none"> <li>a. All fluid levels;</li> <li>b. Engine accessory belts;</li> <li>c. Batteries;</li> <li>d. Exhaust system;</li> <li>e. Fuel water separators;</li> <li>f. Fluid and pneumatic lines; and</li> <li>g. Pneumatic reservoir(s) drain(s)</li> </ul>	CON	N/A	POC - Provide inspection procedure.	<p>Full points will be allotted if it is demonstrated that the requirement is fully met.</p> <p>No points will be allotted if requirement is not fully met.</p>	
BA-559	<b>3.6.2 Reliability</b>	N/A	N/A	N/A	N/A	N/A
BA-555	The Vehicle Mean Kilometers Between Mission Failures (MKBMF) should be up to 10,000 km. Failures are defined IAW STANAG 4158.	CON	N/A	POC - Provide a detailed calculation indicting all input parameters accompanied by supporting failure rate documentation.	<p>Points (%) will be allotted as defined below.</p> <p>Let MKBMF = Mean Kilometers Between Mission Failures (kms)</p> <p>If MKBMF &lt; 8000 km; then allotted points = 0%</p> <p>If MKBMF &gt;= 8000 km and &lt; 10000 km; then allotted points = 50%</p> <p>If MKBMF &gt;= 10000 km; then allotted points = 100%</p>	
BA-40	<b>3.7 N/A</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-41	<b>3.8 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-366	<b>3.9 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-375	<b>3.10 Driveline</b>	N/A	N/A	N/A	N/A	N/A
BA-285	<p>The Vehicle should be equipped with the following differential and transfer case locking mechanisms:</p> <ul style="list-style-type: none"> <li>a. Driver controlled inter-axle locking feature such that all rear axles are locked together.</li> <li>b. Driver controlled locking differentials on all rear axles.</li> <li>c. Driver controlled inter-axle locking feature such that all axles are locked together.</li> <li>d. Driver controlled locking differentials on all front axles.</li> </ul>	CON	N/A	POC	<p>Points (%) will be allotted as defined below.</p> <p>If the Vehicle is equipped with (a) and (b); then points = 50%</p> <p>If the Vehicle is equipped with (a), (b), and (c); then points = 75%</p> <p>If the Vehicle is equipped with (a), (b), (c), and (d); then points = 100%</p>	
BA-43	<b>3.11 Brakes</b>	N/A	N/A	N/A	N/A	N/A
BA-249	The Vehicle should be provided with full air actuated service brakes and spring actuated parking brakes.	CON	N/A	POC - Provide details of the air actuated service brakes and park brake including schematics.	<p>Full points will be allotted if it is demonstrated that the requirement is fully met.</p> <p>No points will be allotted if requirement is not fully met.</p>	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-441	The Vehicle should be equipped with traction control.	CON	N/A	POC - Provide details of the traction control system including a list and description of the associated components and theory of operation.	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-620	<b>3.12 Central Tire Inflation System</b>	N/A	N/A	N/A	N/A	N/A
BA-257	The CTIS should inform the driver when the tire pressure cannot be maintained at the desired level and automatically activate a shut-off valve to the affected tire(s).	CON	N/A	POC – Describe the theory of operation for the CTIS and highlight the portion that demonstrates the requirement is met.	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-381	<b>3.13 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-344	<b>3.14 Battery Maintenance System</b>	N/A	N/A	N/A	N/A	N/A
BA-282	The Vehicle should be equipped with a solar powered battery maintenance and life extension system that maintains the battery state of charge when the Vehicle is parked for an extended period of time. The solar panel maintenance system is to be connected directly to the Vehicle batteries independently of the Vehicle master electrical disconnect switch.	CON	N/A	POC - Provide details of the electrical schematic indicating the integration of the battery maintenance system.	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-455	<b>3.15 N/A</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-46	<b>3.16 Cab</b>	N/A	N/A	N/A	N/A	N/A
BA-499	The Vehicle should be equipped with a cab system configured to provide seating for three crew members, dressed in full fighting order winter clothing IAW para 2.1 of this document.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-539	<b>3.16.1 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-57	<b>3.16.2 Seats</b>	N/A	N/A	N/A	N/A	N/A
BA-264	The Vehicle cab should be equipped with a high-back, air-suspended driver's seat.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-59	<b>3.16.3 Visibility</b>	N/A	N/A	N/A	N/A	N/A
BA-267	The door-mounted windows on the non-APS cab should be capable of being fully opened.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-406	The Vehicle should be equipped with exterior heated mirrors.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	



ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-60	<b>3.16.4 Steering Column</b>	N/A	N/A	N/A	N/A	N/A
BA-268	The steering column should be adjustable, both tilt and telescopic, to accommodate the driver and to facilitate ingress and egress of the cab.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-67	<b>3.16.5 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-68	<b>3.16.6 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-522	<b>3.16.7 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-329	<b>3.16.8 Instrument Gauges</b>	N/A	N/A	N/A	N/A	N/A
BA-319	The Vehicle cab should be equipped with the following gauges: a. engine coolant temperature; b. reset trip odometer; c. voltmeter; d. oil pressure gauge; and e. transmission oil temperature gauge; and f. tachometer.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-408	<b>3.16.9 Warning Lights/Indicators</b>	N/A	N/A	N/A	N/A	N/A
BA-409	The Vehicle cab should be equipped with the following lights/indicators IAW ISO 2575, where applicable: a. low engine oil pressure warning light; b. high coolant temperature warning light; c. high transmission oil temperature warning light; and d. low engine oil level warning light.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	

ID	SMP - Appendix BA - Vehicle Performance Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-54	<b>3.17 Lubricants and Fluids Compatibility</b>	N/A	N/A	N/A	N/A	N/A
BA-386	<p>The Vehicle major assemblies and ancillaries as indicated, should be compatible with the following lubricants and fluids:</p> <p>a. Engine:</p> <p>MIL-PRF-2104, Engine Oil, Multi-Grade; or  MIL-PRF-46167 Engine Oil, Arctic Grade.</p> <p>b. Transmission, Transfer Case and Axles (Differentials, Wheel Hubs):</p> <p>SAE J308 Multi-Purpose Gear Oil</p> <p>c. Transmission:</p> <p>SAE J311 Automatic Transmission Fluid (DEXRON III Fluid or later version preferred);</p> <p>d. Engine Coolant:</p> <p>A-A-52624 Antifreeze, Multi-Engine Type I or IP</p> <p>e. Ancillaries (LHS, Crane and Winch)</p> <p>MIL-PRF-5606 Hydraulic Fluid.</p> <p>f. Chassis:</p> <p>MIL-PRF-10924 or Multi-Purpose EP2 grease</p>	CON	N/A	<p>POC</p> <p>Demonstrate through analysis, test report, etc. that the listed standard and requirements will not degrade the design, performance and/or reliability of the vehicle.</p>	<p>Full points will be allotted if it is demonstrated that the requirement is fully met.</p> <p>No points will be allotted if requirement is not fully met.</p>	

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)

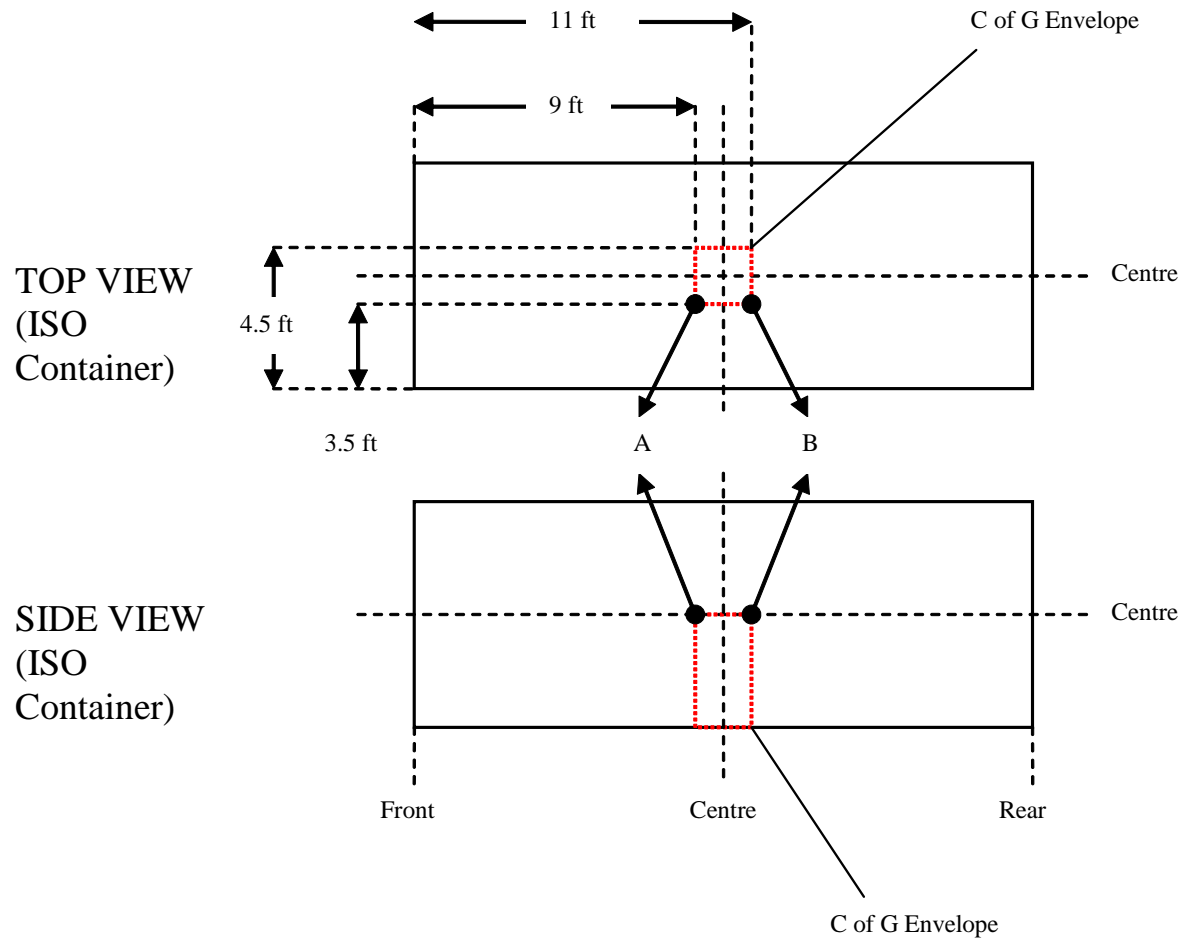
W8476-06-MSMP/L

Part 7 - Resulting Contract – Acquisition

ANNEX B – STATEMENT OF WORK

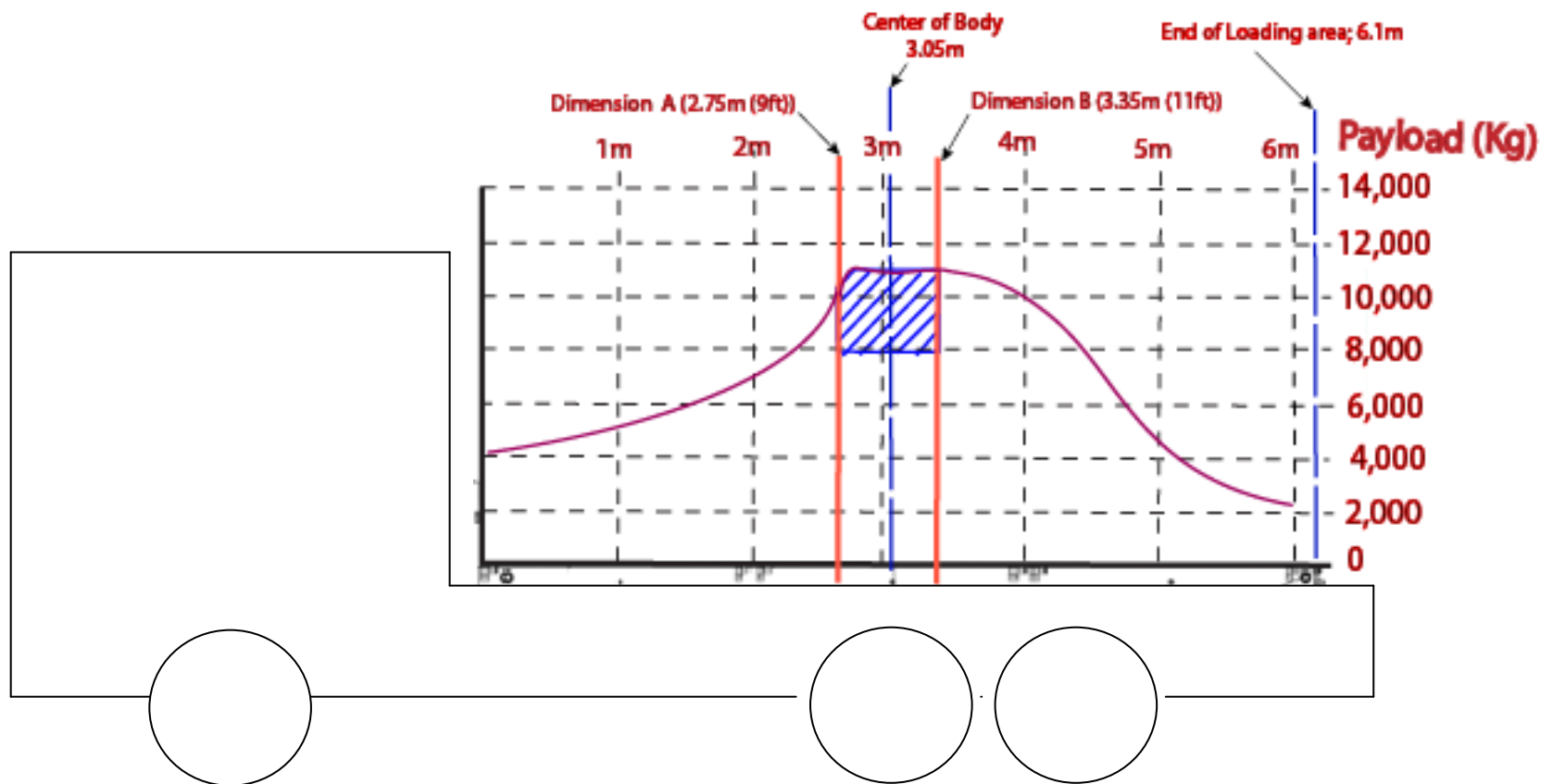
APPENDIX BA – VEHICLE PERFORMANCE REQUIREMENTS

SCHEDULE BA-1 – VEHICLE PAYLOAD CENTER OF GRAVITY



## VEHICLE PAYLOAD CENTER OF GRAVITY

**Note: The load distribution curves are approximate, and are provided as an example for illustration purposes only"**



**Figure 2: SAMPLE WEIGHT DISTRIBUTION DIAGRAM**

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 7 – Resulting Contract - Acquisition

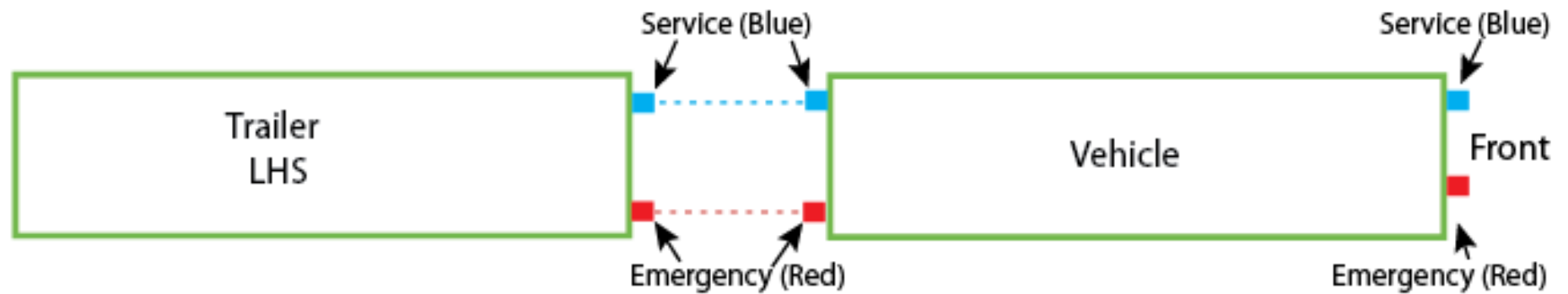
Annex B – Statement of Work

APPENDIX BA – Vehicle Performance Requirements

Schedule BA-2 – Gladhand Configuration and Nomenclature

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Vehicle Performance Requirements  
Gladhand Configuration and Nomenclature

Schedule BA-2 to  
Appendix BA to  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L



### GLADHAND CONFIGURATION AND NOMENCLATURE



## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 7 – Resulting Contract - Acquisition

Annex B – Statement of Work

APPENDIX BA – Vehicle Performance Requirements

Attachment BA-1 – Standard Kit and Equipment

ID	SMP - Attachment BA-1 Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GFI	Remarks
BA-1-118	<b>1 Scope</b>								
BA-1-120	This document describes the on board equipment that the SMP vehicle may carry as part of its load.  Images and dimensions are detailed in Attachment BA-2.								
BA-1-42	<b>2 Personnel</b>								
BA-1-139	<b>2.1 Personnel</b>	N/A	2 (+ 1)	103	206 (309)	N/A	NO	NO	Personnel dressed in ICE/fighting order. Winter Clothing.
BA-1-147	Worn items include the following:								
BA-1-148	a. Helmet		2 (+ 1)	1.6	3.2 (4.8)	25 x 30	NO	NO	Worn
BA-1-149	b. Gen III Vest Fragmentation Protective (Including 1 set of plates)		2 (+ 1)	8	16 (24)	N/A	NO	NO	Worn
BA-1-150	c. Tactical Vest (Including 5 Ammunition Magazines)		2 (+ 1)	15	30 (45)		NO	NO	Worn
BA-1-46	<b>2.2 Ruck Sack</b>	8465-20-001-2864	2 (+ 1)	37	74 (111)	90 x 30 x 50	Yes	NO	Space claim required in cab or outside protected.

ID	SMP - Attachment BA-1 Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GFI	Remarks
BA-1-45	<b>2.3 Small Pack</b>	8465-20-000-4366	2 (+ 1)	25	50 (75)	60 x 50 x 30	Yes	NO	Space claim required in cab or outside protected.
BA-1-51	<b>3 Personal Weapon</b>								
BA-1-158	For a two person cab, the requirement is to stow / secure two (2) weapons which may be any combination of C7, C8 and C9. For a three person cab, the requirement is to stow three weapons which may be any combination of C7, C8 and C9. There must be a dedicated location to store the spare C9 barrel in all cases.								
BA-1-53	<b>3.1 Rifle C-7A2</b>	1005-20-000-9638	2 (+ 1)	4.6	9.2 (13.8)	91-100 x 6.7 x 30	NO	Yes	Envelope drawing provided for space claim in cab. Brackets are to be included with and installed in vehicle.

ID	SMP - Attachment BA-1 Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GFI	Remarks
BA-1-52	<b>3.2 Machine gun C-9A2</b>	1005-20-003-3788	1	11.4	11.4	100-110.5 x 13.5 x 30	NO	Yes	Envelope drawing provided for space claim in cab. Brackets are to be included with and installed in vehicle.
BA-1-152	<b>3.2a Spare Barrel (C9)</b>	1005-13-112-4835	1	1.57	1.57	58 x 8.5 x 14	NO	Yes	Envelope drawing provided for space claim in cab. Brackets are to be included with and installed in vehicle.
BA-1-125	<b>3.3 Rifle C8</b>	1005-21-898-7045	2 (+ 1)	4.1	8.2 (12.3)	80-90 x 10 x 30	NO	Yes	Envelope drawing provided for space claim in cab. Brackets are to be included with and installed in vehicle.
BA-1-54	<b>4 Night Vision</b>								
BA-1-55	<b>4.1 AN/PVS- 504</b>	5855-20-001-6280	2	0.77	1.5	32 x 20 x 13	Yes	NO	Container provided for space claim. Requires secure, protected stowage in cab or outside of vehicle.
BA-1-57	<b>5 Pioneer Tools</b>								All pioneer tools shall be co-located on a vehicle supplied bracket(s).
BA-1-61	<b>5.1 Shovel</b>	5120-21-872-1790	1	2.0	2.0	120 x 20 x 25	Yes	NO	
BA-1-60	<b>5.2 Pick</b>	5120-21-639-4021	1	2.7	2.7	45 x 10 x 10	Yes	NO	

ID	SMP - Attachment BA-1 Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GFI	Remarks
BA-1-59	<b>5.3 Pick Handle</b>	5120-21-639-4073	1	1.0	1.0	92 x 6 x 4	Yes	NO	
BA-1-58	<b>5.4 Axe</b>	5110-21-809-1859	1	1.4	1.4	90 x 17 x 3	Yes	NO	
BA-1-63	<b>6 Wheel Changing Kit</b>								All tire changing tools shall be co-located.
BA-1-69	<b>6.1 Wood Block</b>	5510-21-906-1369	2	1.6	3.2	25 x 20 x 10	Yes	NO	Requires protected stowage on the outside of the vehicle.
BA-1-71	<b>6.2 Safety Triangle</b>	9905-21-872-4237	1	1.1	1.1	43 x 10 x 10	Yes	NO	Requires secure, protected stowage on the outside of vehicle.
BA-1-72	<b>6.3 Vehicle Jack</b>	TBD	1	TBD	TBD	TBD	NO	NO	To be included with vehicle. Requires secure, protected stowage on the outside of the vehicle.
BA-1-75	<b>6.4 Wheel Wrench</b>	TBD	1	TBD	TBD	TBD	NO	NO	To be included with vehicle. Requires secure, protected stowage on the outside of the vehicle.
BA-1-153	<b>6.5 Tire Inflator Gauge and Air Hose Assembly</b>	TBD	1	TBD	TBD	TBD	NO	NO	To be included with vehicle and securely stowed in a protected space on the outside of the vehicle.
BA-1-68	<b>7 Tire Chains</b>								

ID	SMP - Attachment BA-1 Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GFI	Remarks
BA-1-76	<b>7.1 Tire Chains</b>	TBD	4	TBD	TBD	TBD	NO	NO	To be included with vehicle. Required to be securely stowed in a protected space on the outside of the vehicle. The tire chains to be packaged one chain per bag.
BA-1-77	<b>7.2 Tire Chain Repair Kit</b>	TBD	1	TBD	TBD	TBD	NO	NO	To be included with vehicle. Required to be securely stowed in a protected space on the outside of the vehicle.
BA-1-78	<b>8 Camouflage</b>								
BA-1-79	<b>8.1 Camouflage Kit</b>	TBD	1	85	85	150 x 90 x 60	Yes	NO	Requires secure stowage on the outside of vehicle.
BA-1-83	<b>9 Recovery Equipment</b>								
BA-1-84	<b>9.1 Tow Sling Bag with Sling</b>	8120-20-001-3790 (Bag Only)	1	10.0	10.0	56 x 41 x 10	Yes	NO	To be securely stowed in a protected space on the outside of the vehicle.

ID	SMP - Attachment BA-1 Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GFI	Remarks
BA-1-86	<b>9.2 Shackle</b>	TBD	4	TBD	TBD	TBD	NO	NO	To be included with vehicle and securely stowed in a protected space on the outside of the vehicle.
BA-1-92	<b>10 Rations</b>								
BA-1-93	<b>10.1 Ration Box</b>	8970-21-887-9548 8979-21-887-9549 8970-21-887-9550	2 ea	0.7	4.2	20.5 x 12.5 x 7 each	Yes	NO	To be securely stowed inside cab or in a protected space on the outside of the vehicle.
BA-1-94	<b>11 Fire Extinguisher</b>								
BA-1-95	<b>11.1 Fire Extinguisher 2.5Kg.</b>	4210-21-856-9084	1	2.5	2.5	48 x 14 x 14	Yes	NO	Located in bracket.
BA-1-101	<b>11.2 Fire Extinguisher Bracket 2.5Kg.</b>	4210-00-245-1117	1	0.5	0.5	40 x 5	Yes	NO	Requires secure stowage location in cab, easily accessible from the drivers position or the ground.
BA-1-156	<b>11.3 Fire Extinguisher 9 Kg.</b>	4210-21-904-1381	1	17.2 (Charged Weight)	17.2 (Charged Weight)	53 x 27 x 18	Yes	NO	Located in bracket.
BA-1-157	<b>11.4 Fire Extinguisher Bracket 9 Kg.</b>	4210-21-886-3387	1	1.0	1.0	37 x 19 x 21	Yes	NO	Requires secure stowage location that is near the front of the vehicle and easily accessible from ground level.
BA-1-96	<b>12 First Aid Kit</b>								

ID	SMP - Attachment BA-1 Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GFI	Remarks
BA-1-97	<b>12.1 First Aid Kit</b>	6545-21-111-8439	1	1.0	1.0	25 x 20 x 10	Yes	NO	Located in bracket.
BA-1-102	<b>12.2 First Aid Kit Bracket</b>	5420-21-921-0895	1	1.0	1.0	27 x 16 x 18	Yes	NO	Requires a stowage location that is near the front of the vehicle and easily accessible from ground level.
BA-1-126	<b>13 NBC Decontamination Kit</b>								
BA-1-127	<b>13.1 NBC Decontamination Kit</b>	4230-21-904-1737	1	5.4	5.4	60 x 15 x 15	Yes	NO	Kit provided for space claim in cab.
BA-1-137	<b>13.2 Bracket Assembly, Mounting, Decontaminating Apparatus</b>	4230-21-904-1738	1	2	2	47 x 13.5 x 15	Yes	NO	Kit provided per para 13.1
BA-1-128	<b>14 Stove</b>								
BA-1-129	<b>14.1 Stove, Naphtha</b>	7310-21-899-3982	1	4.2	4.2	45 x 30 x 15	Yes	NO	Requires secure, protected stowage on the outside of vehicle.
BA-1-130	<b>15 Lantern</b>								
BA-1-131	<b>15.1 Lantern, Naphtha with Carrying Case</b>	6260-21-863-9325	1	4.2	4.2	20 x 20 x 38	Yes	NO	Requires secure, protected stowage on the outside of vehicle.
BA-1-98	<b>16 Jerry Can</b>								
BA-1-103	<b>16.1 Fuel Jerry Can</b>	7240-21-899-8270	1	21.0 (Full)	21.0 (Full)	35 x 17 x 48	Yes	NO	Located in bracket per para 16.3
BA-1-105	16.1.1 Spout Flexible	7240-21-910-7112	1	0.8	0.8	60 x 7 x 7	Yes	NO	Located in secure tool bag.



ID	SMP - Attachment BA-1 Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GFI	Remarks
BA-1-104	<b>16.2 Water Jerry Can</b>	7240-21-852-5150	1	21.0 (Full)	21.0 (Full)	35 x 17 x 48	Yes	NO	Located in bracket per para 16.3
BA-1-106	<b>16.3 Jerry Can Bracket</b>	2540-21-901-5046	2	2.0	4.0	36.5 x 17.3 x 15.24	Yes	NO	Bracket provided for space claim on vehicle exterior. Brackets are to be included with and installed in vehicle.
BA-1-107	<b>16.4 Naphtha Jerry Can</b>	7240-21-874-4113	1	3.0 (Full)	3.0 (Full)	19 x 15 x 29	Yes	NO	Located in bracket.
BA-1-108	<b>16.5 Naphtha Jerry Can Bracket</b>	9999-21-894-8270	1	1.0	1.0	22 x 19 x 11	Yes	NO	Bracket provided for space claim on vehicle exterior. Bracket is to be included with and installed in vehicle.
BA-1-109	<b>17 Tools</b>								
BA-1-110	<b>17.1 Operator's Tools</b>	TBD	1	TBD	TBD	TBD	NO	NO	Vehicle to be equipped with tools per operator's maintenance. Requires secure, protected stowage on the outside of vehicle.
BA-1-111	<b>17.2 Pry Bar</b>	5120-21-905-9902	1	2.3	2.3	53 (Long)	Yes	NO	Located in secure tool bag.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

**Request For Proposal  
W8476-06-MSMP/L**

### **Part 7 – Resulting Contract - Acquisition**

#### **Annex B – Statement of Work**

#### **APPENDIX BA – Vehicle Performance Requirements**

#### **Attachment BA-2 – Standard Kitting and Equipment**

# **MSVS SMP**

## **2 Personnel**

**Stock Code: 8465-20-001-2864**

**ITEM 2.2**

**Description: Rucksack**



**Weight: 37.0kg**

**Dimension: 90cm x 30cm x 50cm**

**Stock code: 8465-20-000-4366**

**ITEM 2.3**

**Description: Small Pack**



**Weight: 25.0kg**

**Dimension: 60cm x 50cm x 30cm**

# **MSVS SMP**

## **3 Personal Weapon**

## ITEM 3.1

**Stock code: 1005-20-000-9638**

**Description: Rifle C-7A2 x 2 (+1)**



**Weight: 4.6kg**

**Dimension: 91-100cm x 6.7cm x 30cm**

**Stock code: 1005-20-003-3788**  
**Description: Machine Gun C-9 A2 x 1**

**ITEM 3.2**



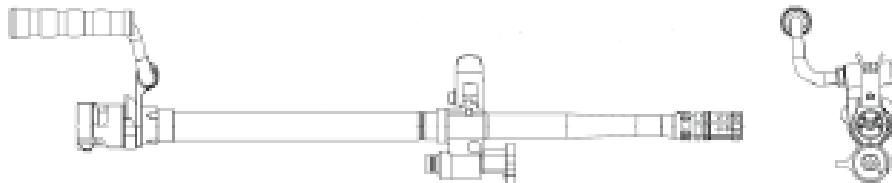
**Weight: 11.4kg**

**Dimension: 100-110.5cm x 13.5cm x 30cm**

---

**Stock code: 1005-13-112-4835**  
**Description: Spare Barrel C-9 A2 x 1**

**ITEM 3.2a**



**Weight: 1.57kg**

**Dimension: 58cm x 8.5cm x 14cm**



**Stock code: 1005-21-898-7045**

**ITEM 3.3**

**Description: Rifle C-8 x 2 (+1)**



**Weight: 4.1kg**

**Dimension: 80-90cm x 10cm x 30cm**

# **MSVS SMP**

## **4 Night Vision**

**Stock code: 5855-20-001-6280**

**ITEM 4.1**

**Description: NVG AN/PVS-504 x 2**



**Weight: 0.77kg**

**Dimension: 32cm x 20cm x 13cm**

# **MSVS SMP**

## **5 Pioneer Tools**

**Stock code: 5120-21-872-1790**

**ITEM 5.1**

**Description: Shovel x1**



**Weight: 2.0kg**

**Dimension: 120cm x 20cm x 25cm**

**Stock code: 5120-21-639-4021**

**ITEM 5.2**

**Description: Pick x1**



**Weight: 2.7kg**

**Dimension: 45cm x 10cm x 10cm**

**Stock code: 5120-21-639-4073**

**ITEM 5.3**

**Description: Pick Handle x1**



**Weight: 1.0kg**

**Dimension: 92cm x 6cm x 4cm**

**Stock code: 5110-21-809-1859**

**ITEM 5.4**

**Description: Axe x 1**



**Weight: 1.4kg**

**Dimension: 90cm x 17cm x 3cm**



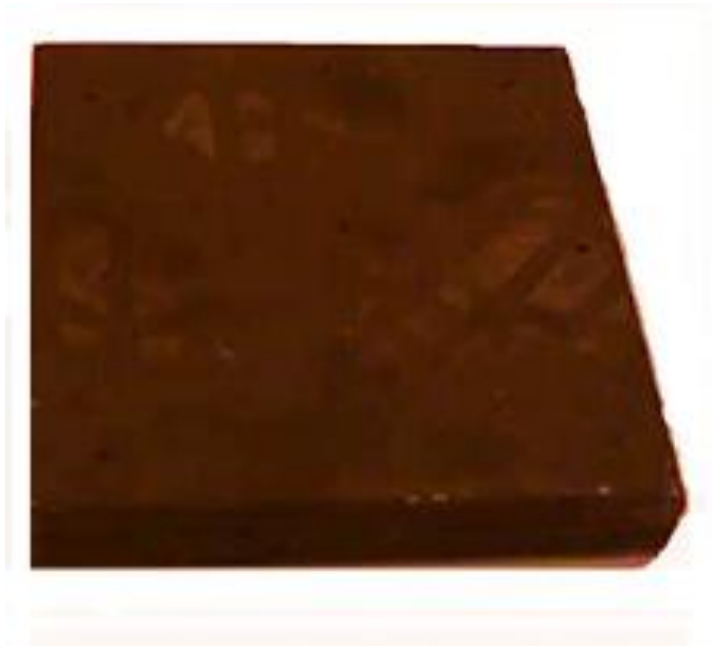
# **MSVS SMP**

## **6 Wheel Changing Kit**

## ITEM 6.1

**Stock code: 5510-21-906-1369**

**Description: Wood Block x 2**



**Weight: 1.6kg**

**Dimension: 25cm x 20cm x 10cm**

**Stock code: 9905-21-872-4237**

**ITEM 6.2**

**Description: Safety Triangle**



**Weight: 1.1kg**

**Dimension: 43cm x 10cm x 10cm**

**Stock code: TBD**

**ITEM 6.3**

**Description: Vehicle Jack**

**Contractor to Supply**

**Weight: TBD**

**Dimension: TBD**

**Stock code: TBD**

**ITEM 6.4**

**Description: Wheel Wrench**

**Contractor to Supply**

**Weight: TBD**

**Dimension: TBD**

## ITEM 6.5

**Stock code: TBD**

**Description: Tire Inflator Gauge and Air Hose Assembly**

**Contractor to Supply**

**Weight: TBD**

**Dimension: TBD**

# **MSVS SMP**

## **7 Tire Chains**

**Stock code: TBD**  
**Description: Tire Chain x 4 (Contractor to Supply)**

---

**ITEM 7.1**



**Weight: TBD**

---

**Dimension: TBD**



## ITEM 7.2

**Stock code: TBD**

**Description: Tire Chain Repair Kit x 1 (Contractor to Supply)**



**Weight: TBD**

**Dimension: TBD**

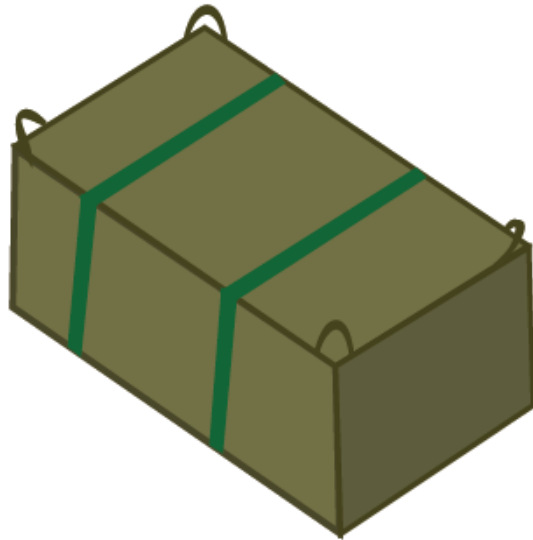
# **MSVS SMP**

## **8 Camouflage**

## ITEM 8.1

**Stock code: TBD**

**Description: Temperate Woodland Camouflage Kit x1**



**Weight: 85.0kg**

**Dimension: L 150cm x W 90cm x H 60cm**

# **MSVS SMP**

## **9 Recovery Equipment**

**Stock code: 8120-20-001-3790**

**ITEM 9.1**

**Description: Tow sling Bag**



**Weight: 10.0kg w/sling**

**Dimension: 56cm x 41cm x10cm**

## **ITEM 9.3**

**Stock code: TBD**

**Description: Shackle x 4 (Contractor to Supply)**



**Weight: TBD kg**

**Dimension: TBD**

# **MSVS SMP**

## **10 Rations**

<b>Stock code:</b>	<b>8970-21-887-9548 Breakfast</b>	<b>x 2</b>	<b>ITEM 10.1</b>
	<b>8970-21-887-9549 Lunch</b>	<b>x 2</b>	
	<b>8970-21-887-9550 Supper</b>	<b>x 2</b>	

**Description:** Individual Meal Packs



**Weight: 0.7kg ea x 6 = 4.2kg**

**Dimension: 20.5cm x12.5cm x 7.0cm (each X6 )**



# **MSVS SMP**

## **11 Fire Extinguisher**

## ITEM 11.1

**Stock code: 4210-21-856-9084**

**Description: Fire Extinguisher**



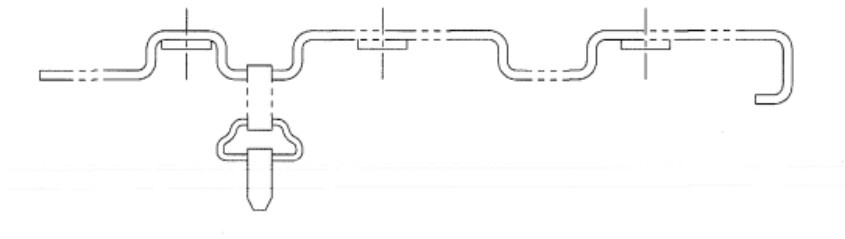
**Weight: 2.3g**

**Dimension: 48cm x 14cm x 14cm**

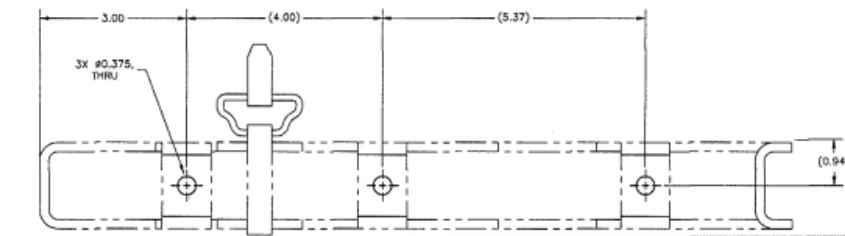
## ITEM 11.2

**Stock code: 4210-00-245-1117**

**Description: Fire Extinguisher Bracket  
(used to mount item 11.1)**



**Weight: 0.5kg**



**Dimension: 40cm x 5cm**

**Stock code: 4210-21-904-1381**

**ITEM 11.3**

**Description: Fire Extinguisher**



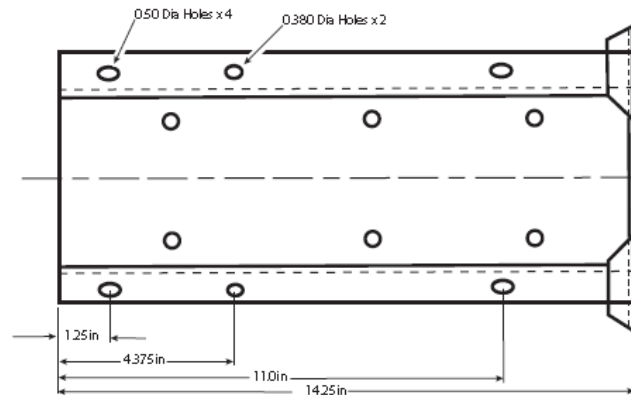
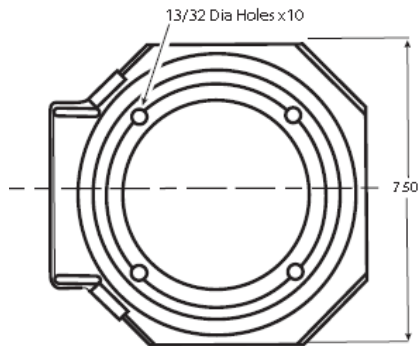
**Charged Weight: 17.2kg**

**Dimension: 53cm x 27cm x18cm**

## ITEM 11.4

**Stock code: 4210-21-886-3387**

**Description: Fire Extinguisher Bracket  
(used to mount item 11.3)**



**Weight: 0.5kg**

**Dimension: 37.0cm x 19.0cm x 21cm**

# **MSVS SMP**

## **12 First Aid Kit**

## **ITEM 12.1**

**Stock code: 6545-21-111-8439**

**Description: First Aid Kit**



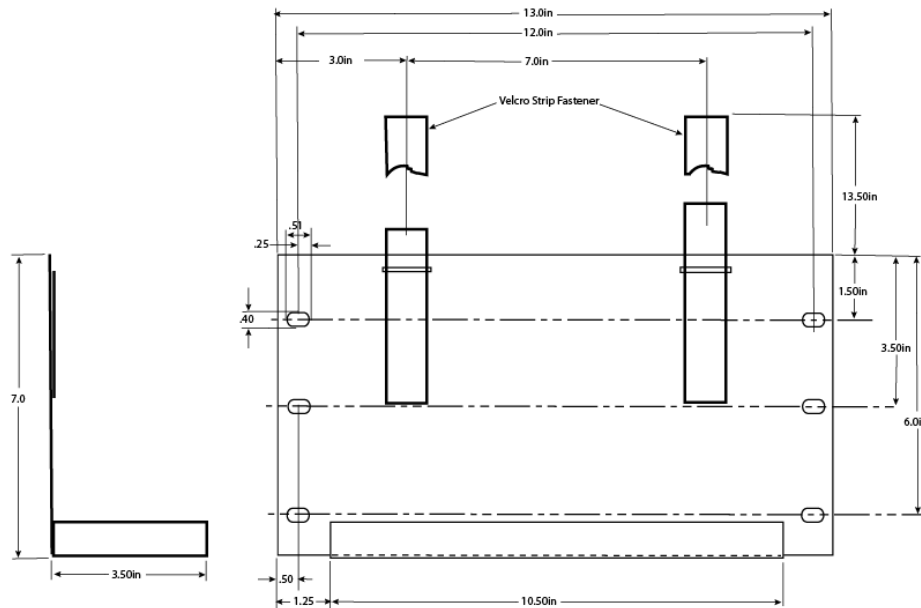
**Weight: 1.0kg**

**Dimension: 25cm x 20cm x 10cm**

**Stock code: 5420-21-921-0895**

**ITEM 12.2**

**Description: First Aid Kit Mount Bracket  
(used to mount item 12.1)**



**Weight: 1.0kg**

**Dimension: 27cm x 16cm x 18cm**



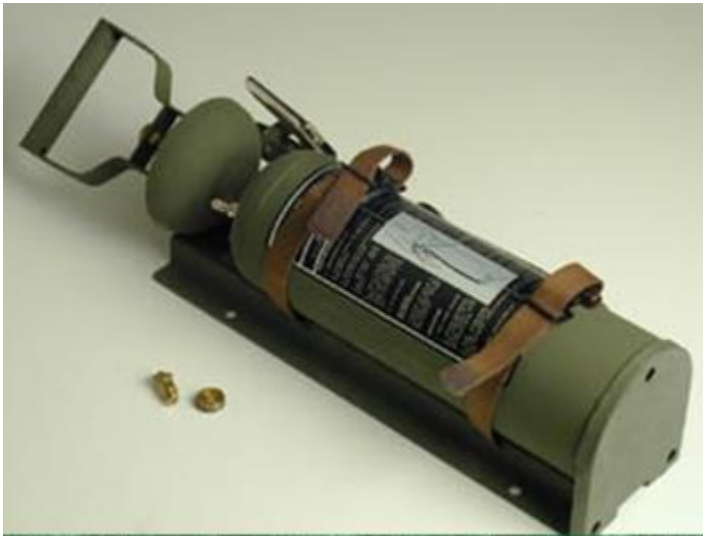
# **MSVS SMP**

## **13 NBC Decontamination Kit**

**Stock code: 4230-21-904-1737**

**ITEM 13.1**

**Description: NBC Decontamination Kit**



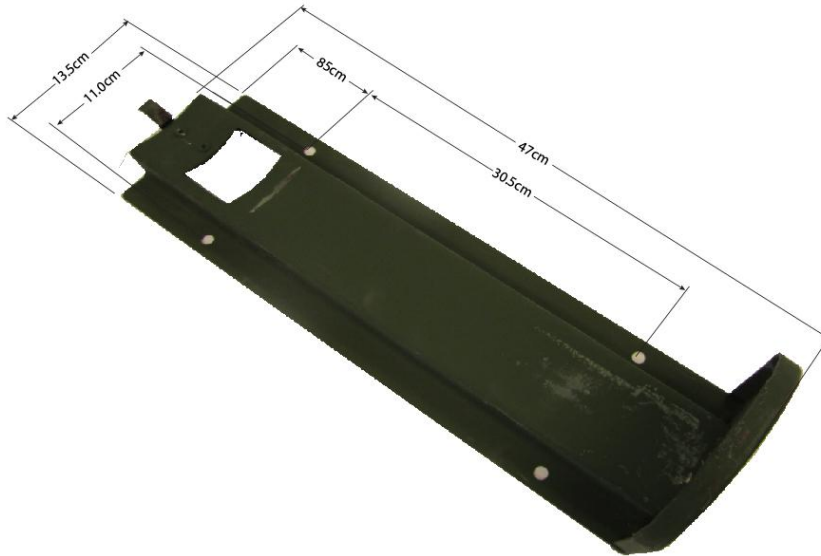
**Weight: 5.4kg**

**Dimension: 60cm x 15cm x 15cm**

**Stock code: 4230-21-904-1738**

**ITEM 13.2**

**Description: NBC Decontamination Kit Mount Bracket  
(used to mount item 13.1)**



**Weight: 2.0kg**

**Dimension: 47cm x 13.5cm x 15cm**

# **MSVS SMP**

## **14 Stove**

**Stock code: 7310-21-899-3982**

**ITEM 14.1**

**Description: Stove**



**Weight: 4.2kg**

**Dimension: 45cm x 30cm x 15cm**

# **MSVS SMP**

## **15 Lantern**

## **ITEM 15.1**

**Stock code: 6260-21-863-9325**

**Description: Lantern Case with Lantern**



**Weight: 4.2kg**

**Dimension: 20cm x 20cm x 38cm**

# **MSVS SMP**

## **16 Jerry Can**



**ITEM 16.1**

**Stock code: 7240-21-899-8270**

**Description: Jerry Can Fuel**



**Weight Full: 21.0kg**

**Dimension: 35cm x 17cm x 48cm**

## **ITEM 16.1.1**

**Stock code: 7240-21-910-7112**

**Description: Spout, Flexible**



**Weight : 0.8kg**

**Dimension: 60cm x 7cm x 7cm**

## **ITEM 16.2**

**Stock code: 7240-21-852-5150**

**Description: Jerry Can Water**



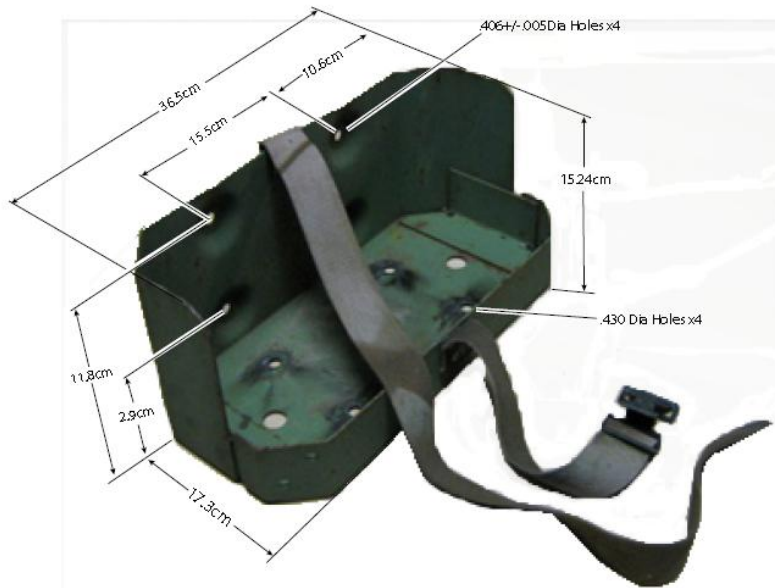
**Weight Full: 21.0kg**

**Dimension: 35cm x 17cm x 48cm**

**Stock code: 2540-21-901-5046**

**ITEM 16.3**

**Description: Bracket Jerry Can (Fuel & Water)  
(used to mount items 16.1 & 16.2)**



**Weight: 2.0kg**

**Dimension: 36.5cm x 17.3cm x 15.24cm**

## **ITEM 16.4**

**Stock code: 7240-21-874-4113**

**Description: Jerry Can Naphtha**



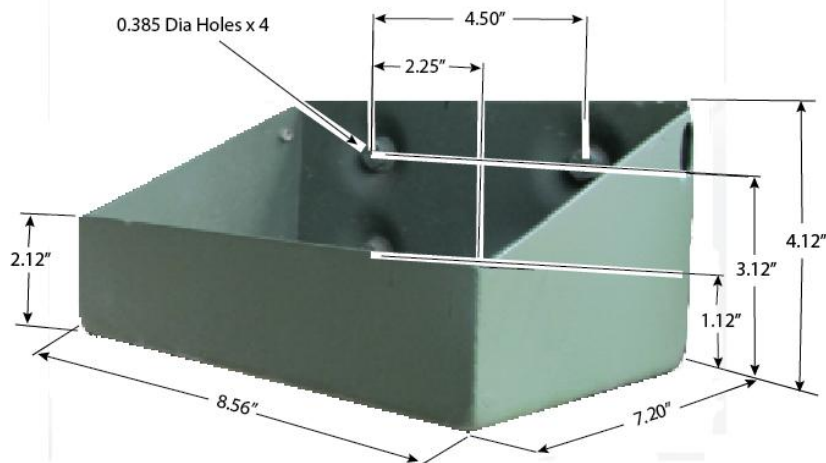
**Weight Full: 3.00kg**

**Dimension: 19cm x 15cm x 29cm**

## ITEM 16.5

**Stock code: 9999-21-894-0880**

**Description: Bracket Naphtha Can  
(used to mount items 16.4)**



**Weight: 1.0kg**

**Dimension: 22cm x 19cm x 11cm**

# **MSVS SMP**

## **17 Other On-Board Tools**

**ITEM 17.1**

**Stock code: TBD**

**Description: Operator's On-Board Tools**

**Contractor to Supply**

**Weight: TBD**

**Dimension: TBD**



**Stock code: 5120-21-905-9902**

**ITEM 17.2**

**Description: Pry Bar**



**Weight: 2.3kg**

**Dimension: 53cm Long**

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 7 – Resulting Contract - Acquisition

Annex B – Statement of Work

APPENDIX BA – Vehicle Performance Requirements

Attachment BA-3 – Electronic Equipment Requirements

ID	SMP - Attachment BA-3 - Electronic Equipment Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-3-1	<b>1 Scope</b>	N/A	N/A	N/A	N/A	N/A
BA-3-3	This Attachment describes the requirements for Electronic Equipment installation in the Vehicle with and without the Armoured Protection System (APS).	N/A	N/A	Information Only	Information Only	N/A
BA-3-176	<b>2 General Requirements</b>	N/A	N/A	N/A	N/A	N/A
BA-3-50	All variants of the Vehicle shall be able to accept the Electronic Equipment described in this Attachment.	N/A	N/A	Information Only	Information Only	N/A
BA-3-178	<b>3 Electronic Equipment for Vehicle Without APS - Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-3-4	<b>3.1 Communication System</b>	N/A	N/A	N/A	N/A	N/A
BA-3-10	<b>3.1.1 Communication System Specifications</b>	N/A	N/A	N/A	N/A	N/A
BA-3-11	The components, weights and specifications of the Communication System for Vehicle without APS are as follows:	N/A	N/A	Information Only	Information Only	N/A
BA-3-14	•Qty 2, RAD A+ : Tactical VHF radio with Power Amplifier (Radio, Amplifiers and Mounting Tray; 24.4 cm Wide ´ 21.6 cm High ´ 31.0 cm Deep and weighs 11.6 kg (each);	N/A	N/A	Information Only	Information Only	N/A
BA-3-16	•DAGR (Defense Advanced GPS Receiver): located in front of the passenger area; 8.8 cm Wide ´ 16.1 cm High ´ 4.0 cm Deep and weighs 0.5 kg;	N/A	N/A	Information Only	Information Only	N/A
BA-3-99	•Antenna Assembly for DAGR; 5.6 cm Wide ´ 3.6 cm High ´ 8.8 cm Deep and weighs 0.25 kg;	N/A	N/A	Information Only	Information Only	N/A
BA-3-19	•Qty 2 Antennas, SPD (Single Port Dipole); Base approximately 241mm high (9.5in) x 147mm diameter (5.8in); 4 Qty 11.4mm (0.45in) holes equally spaced center on a 114.3mm diameter (4.50in); Total length of antenna assembly (when mounted on base) is approximately 3300 mm (132in);( Ref DND DWG VC-02-00150)	N/A	N/A	Information Only	Information Only	N/A

ID	SMP - Attachment BA-3 - Electronic Equipment Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-3-96	•Qty 2, Antenna Support DWG 9379174 weighs approximately 0.5 kg;	N/A	N/A	Information Only	Information Only	N/A
BA-3-70	•Qty 2, CSB (Control Selector Box); 34.0 cm Wide ´ 15.2 cm High ´ 11.1 cm Deep and weighs 2.2 kg (each);	N/A	N/A	Information Only	Information Only	N/A
BA-3-97	•Qty 2, Head Set; weighs 1 kg (each);	N/A	N/A	Information Only	Information Only	N/A
BA-3-98	•Speaker (LS-5028/VRC); 15.0 cm Wide ´ 15.0 cm High ´ 8.4 cm Deep, and weighs 1.5 kg; and	N/A	N/A	Information Only	Information Only	N/A
BA-3-72	•PDU-SFF (Power Distribution Unit - Small Form Factor); 18.2 cm Wide ´ 15.2 cm High ´ 11.1 cm Deep and weighs 2.27 kg.	N/A	N/A	Information Only	Information Only	N/A
BA-3-304	Qty 2, Filter, Band Pass; 5.16 cm long 2 cm wide	N/A	N/A	Information Only	Information Only	N/A
BA-3-103	<b>3.1.2 Space / Mounting / Ground Studs</b>	N/A	N/A	N/A	N/A	N/A
BA-3-9	The Vehicle without APS shall accommodate the Communication System inside the cab IAW Allocation Code (AC) 307.011, (refer to Schedule BA-3-1).	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-85	The Vehicle without APS shall be provided with the space and mounting provisions for the installation of a Communication System IAW Schedule BA-3-1.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-119	The Vehicle without APS shall be provided with four reinforced locations, one at each corner on the cab roof, to mount the antenna supports (Ref DND DWG 9379174) for the Communication System. The Vehicle shall be provided with a cable pass-through(s) to allow installation of cables for the four antenna support mounting locations. The pass-through(s) shall be sealed with removable and reusable parts when the antennae cables are removed.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-230	One ground stud shall be provided on the cab exterior within 100 mm of each antenna reinforced location.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A

ID	SMP - Attachment BA-3 - Electronic Equipment Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-3-278	Each antennae pass-through shall accommodate a removable and reusable cable sealing solution to prevent the ingress of water, dirt and sand and reduce noise and electromagnetic interference.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-282	The Vehicle shall be provided with mounting provisions for the Radio Rack IAW Schedule BA-3-4.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-237	One ground stud shall be provided in the cab within 100 mm for each of the following locations: <ul style="list-style-type: none"> <li>•co-located tactical radios; and</li> <li>•passenger Control Selector Box (CSB)</li> </ul>	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-297	<b>3.2 Weapons Effects Simulation (WES)</b>	N/A	N/A	N/A	N/A	N/A
BA-3-267	The weight and size specification for WES (Weapons Effects Simulation) is: 15.0 cm Wide ´ 15.0 cm High ´ 10.0 cm Deep and weighs approximately 2.0 kg.	N/A	N/A	Information Only	Information Only	N/A
BA-3-293	<b>3.3 Detachment Commanders Data Terminal (DCDT) mounting bracket</b>	N/A	N/A	N/A	Mandatory Requirement. No points allotted	N/A
BA-3-294	The Gun Tractor Vehicle variant shall be provided with Detachment Commanders Data Terminal (DCDT) mounting bracket IAW Attachment BA-5.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-295	<b>3.4 Gun Data Cable</b>	N/A	N/A	N/A	N/A	N/A
BA-3-296	The Gun Tractor Vehicle variant shall be provided with Gun Data Cable installed IAW Attachment BA-5.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-181	<b>4 Electronic Equipment for Vehicle With APS - Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-3-182	<b>4.1 Communication System</b>	N/A	N/A	N/A	N/A	N/A
BA-3-185	<b>4.1.1 Communication System Specifications</b>	N/A	N/A	N/A	N/A	N/A
BA-3-186	The components, weights and specifications of the Communication System for Vehicle with APS are as follows:	N/A	N/A	Information Only	Information Only	N/A

ID	SMP - Attachment BA-3 - Electronic Equipment Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-3-189	Qty 2, RAD A+ : Tactical VHF radio with Power Amplifier (Radio, Amplifiers and Mounting Tray; 24.4 cm Wide ´ 21.6 cm High ´ 31.0 cm Deep and weighs 11.6 kg (each);	N/A	N/A	Information Only	Information Only	N/A
BA-3-197	•DAGR (Defence Advanced GPS Receiver): located in front of the passenger area; 8.8 cm Wide ´ 16.1 cm High ´ 4.0 cm Deep and weighs 0.5 kg;	N/A	N/A	Information Only	Information Only	N/A
BA-3-198	•Antenna Assembly for DAGR; 5.6 cm Wide ´ 3.6 cm High ´ 8.8 cm Deep and weighs 0.25 kg	N/A	N/A	Information Only	Information Only	N/A
BA-3-199	•Qty 2, CSB (Control Selector Box); 34.0 cm Wide ´ 15.2 cm High ´ 11.1 cm Deep and weighs 2.2 kg (each)	N/A	N/A	Information Only	Information Only	N/A
BA-3-200	• Qty 2, SPD (Single Port Dipole); weighs 5.27 kg (each); ( Ref DND DWG VC-02-00150)	N/A	N/A	Information Only	Information Only	N/A
BA-3-201	Qty 2, Antenna Support DWG 9379174; weighs approximately 0.5 kg (each)	N/A	N/A	Information Only	Information Only	N/A
BA-3-202	Qty 2, Head Set; weighs 1 kg (each)	N/A	N/A	Information Only	Information Only	N/A
BA-3-203	Speaker (LS-5028/VRC); 15.0 cm Wide ´ 15.0 cm High ´ 8.4 cm Deep, and weighs 1.5 kg; and	N/A	N/A	Information Only	Information Only	N/A
BA-3-204	PDU-SFF (Power Distribution Unit - Small Form Factor); 18.2 cm Wide ´ 15.2 cm High ´ 11.1 cm Deep and weighs 2.27 kg.	N/A	N/A	Information Only	Information Only	N/A
BA-3-305	• Divider, Power, Radio Frequency; 5.08 cm Long 1 cm High 5.08 cm Wide	N/A	N/A	Information Only	Information Only	N/A
BA-3-205	<b>4.1.2 Space / Mounting / Ground Studs</b>	N/A	N/A	N/A	N/A	N/A
BA-3-258	The Vehicle with APS shall accommodate the Communication System inside the cab IAW Allocation Code (AC) 307.011, (refer to Schedule BA-3-2).	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-207	The Vehicle with APS shall be provided with the space and mounting provisions for the installation of a Communication System IAW Schedule BA-3-2.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A

ID	SMP - Attachment BA-3 - Electronic Equipment Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-3-208	The Vehicle with APS shall be provided with four reinforced locations, one at each corner on the cab roof, to mount the antenna supports (Ref DND DWG 9379174) for the Communications System and ECM. The Vehicle shall be provided with a cable pass through(s) to allow installation of cables for the four antenna support mounting locations. The pass-through(s) shall be sealed with removable and reusable parts when the antennae cables are removed.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-231	One ground stud shall be provided on the cab exterior within 100 mm of each antenna reinforced location.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-280	Each antennae pass-through shall accommodate a removable and reusable cable sealing solution to prevent the ingress of water, dirt and sand and reduce noise and electromagnetic interference while not jeopardizing the survivability requirements described in Attachment BA-6.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-234	One ground stud shall be provided in the cab within 100 mm for each of the following locations: <ul style="list-style-type: none"> <li>•co-located tactical radios; and</li> <li>•passenger Control Selector Box (CSB)</li> </ul>	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-306	Space must be allocated for qty 2 Filters, band pass to be installed on the same side where the antenna pass throughs will be located for item BA-3-201.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-209	<b>4.2 Electronic Counter Measures (ECM)</b>	N/A	N/A	N/A	N/A	N/A
BA-3-210	<b>4.2.1 ECM Specifications</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-3 - Electronic Equipment Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-3-212	The (ECM) is comprised of the following components and weighs approximately 48.5 kg; <ul style="list-style-type: none"> <li>•Qty 1, Electronic Counter Measure (ECM) unit: 48.3 cm Wide ´ 13.4 cm High ´ 81.3 cm Deep;</li> <li>•Qty 4 Antenna;</li> <li>•Qty 1, Remote Control;</li> <li>•Antenna Adapters;</li> <li>•Cables;</li> <li>• Qty 3, Filter, Band Pass; 11.43 cm long; and</li> <li>•Diplexer kit , Power, Radio Frequency; 11.0 cm Long 3.08 cm High 9.1 cm Wide.</li> </ul>	N/A	N/A	Information Only	Information Only	N/A
BA-3-213	<b>4.2.2 Space/Mounting/Ground Studs</b>	N/A	N/A	N/A	N/A	N/A
BA-3-218	The Vehicle with APS shall be provided with the space and mounting provisions for the installation of ECM consisting of one unit on the cab interior and three ECM antennas on the cab exterior (refer to Schedule BA-3-2).	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-281	The Vehicle shall be provided with mounting provisions for the ECM IAW Schedule BA-3-5.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-232	One ground stud shall be provided in the cab within 100 mm of the ECM.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-233	The ECM shall be located no closer than one meter from the Communication System.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-299	<b>4.3 Detachment Commanders Data Terminal (DCDT) mounting bracket</b>	N/A	N/A	N/A	Mandatory Requirement. No points allotted	N/A
BA-3-300	The Gun Tractor Vehicle variant shall be provided with Detachment Commanders Data Terminal (DCDT) mounting bracket IAW Attachment BA-5.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A
BA-3-301	<b>4.4 Gun Data Cable</b>	N/A	N/A	N/A	N/A	N/A
BA-3-302	The Gun Tractor Vehicle variant shall be provided with Gun Data Cable, IAW Attachment BA-5, installed without compromising survivability requirements.	CON	N/A	SOC	Mandatory Requirement. No points allotted	N/A



Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Vehicle Performance Requirements  
Electronic Equipment Requirements

Attachment BA-3 to  
Appendix BA to  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

ID	SMP - Attachment BA-3 - Electronic Equipment Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-3-287	<b>5 EMI/EMC and RF Safety Testing</b>	N/A	N/A	N/A	N/A	N/A
BA-3-289	The Canada conducted EMI/EMC and RF Safety Testing is contained in Schedule BA-3-3 for reference purposes.	N/A	N/A	N/A	N/A	N/A

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/J

Part 7 - Resulting Contract - Acquisition

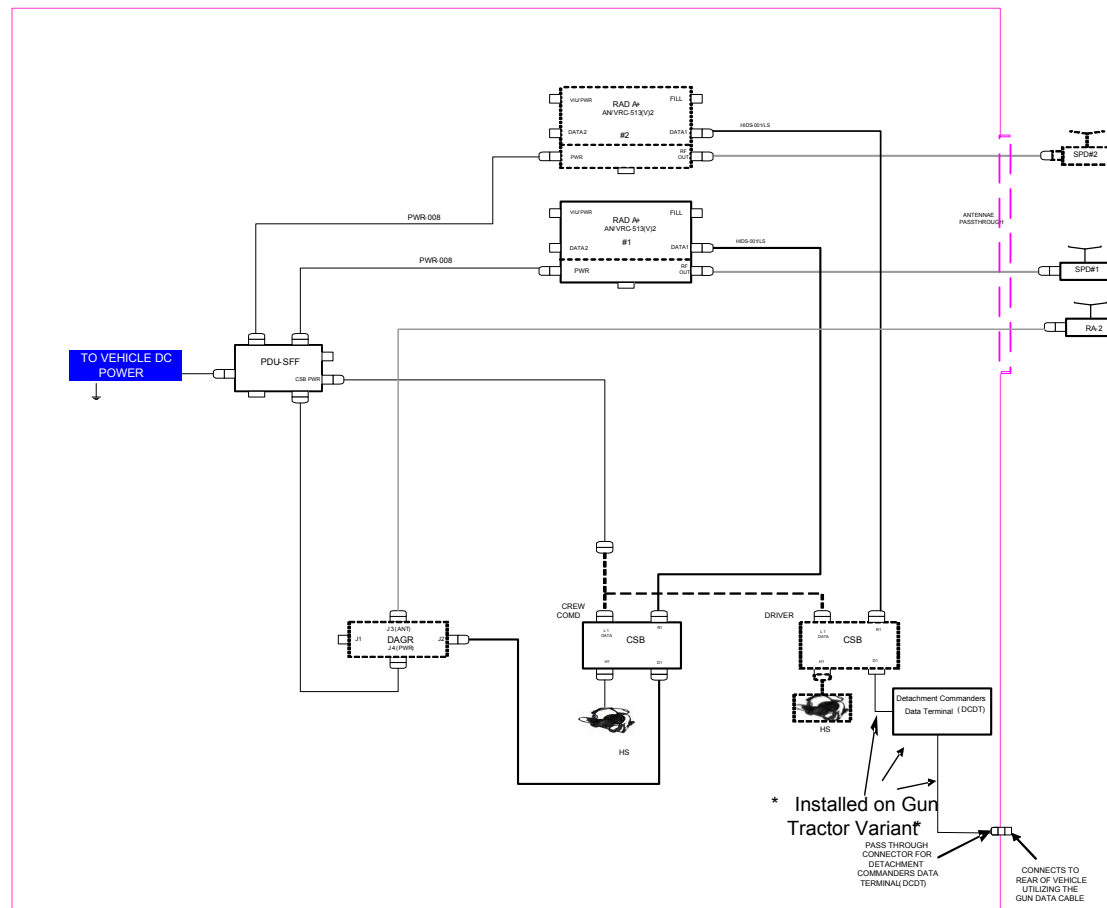
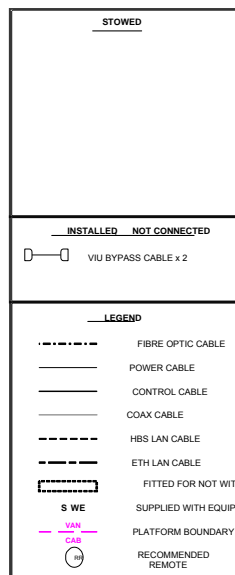
ANNEX B – STATEMENT OF WORK

APPENDIX BA – VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-3 – ELECTRONIC EQUIPMENT REQUIREMENTS

SCHEDULE BA-3-1 – ELECTRONIC EQUIPMENT INSTALLATION FOR VEHICLE WITHOUT APS

**Version 2.5**  
**Electronic Equipment**  
**Installation Diagram for**  
**vehicles without APS**  
**10 Jun 13**



## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)

W8476-06-MSMP/J

Part 7 - Resulting Contract - Acquisition

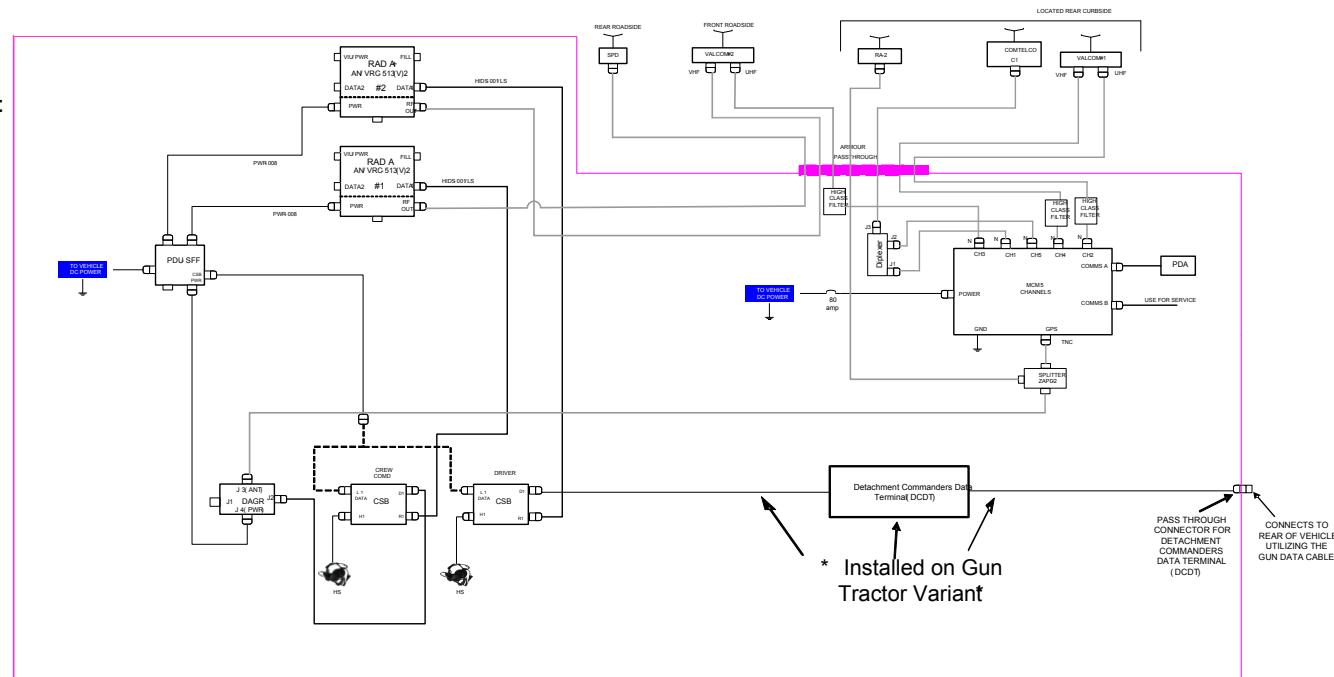
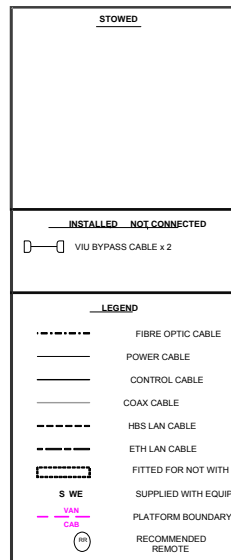
ANNEX B – STATEMENT OF WORK

APPENDIX BA – VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-3 – ELECTRONIC EQUIPMENT REQUIREMENTS

SCHEDULE BA-3-2 – ELECTRONIC EQUIPMENT INSTALLATION FOR VEHICLE WITH APS

**Version 2.6**  
**Electronic Equipment**  
**Installation Diagram For**  
**Vehicles with APS**  
**10 Jun 13**



## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B – STATEMENT OF WORK

APPENDIX BA – VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-3 – ELECTRONIC EQUIPMENT REQUIREMENTS

SCHEDULE BA-3-3 –EMI/EMC AND RF SAFETY TESTING OF MSVS SMP VARIANTS

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Vehicle Performance Requirements  
Electronic Equipment Requirements – Schedule BA-3-3

Attachment BA-3  
Appendix BA  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

## **General**

DND will conduct the testing described herein.

In Canada, the use of electromagnetic spectrum is governed by Industry Canada. Military Standard tests involving electromagnetic emissions require authorization from Industry Canada for the use of the electromagnetic spectrum. For information in this matter contact Director Information Management Technologies, Products and Services, (DIMTPS) at (613) 992-8744 (DIMTPS 5-3).

IRIS Radio configurations for MSVS SMP consist of the following:

- 2 x RAD A+ Tactical VHF radios with Power Amplifiers (Refer to Schedule BA-3-1)
- 2 x RAD A+ Tactical VHF radios with Power Amplifiers and Electronic Counter Measure (Refer to Schedule BA-3-2)

IRIS Radio systems for MSVS SMP operating specifications:

RAD A+	50Watts Output Very High Frequency	30-107.975MHz
--------	------------------------------------	---------------

The receive mode is considered to be the most sensitive and the transmit mode is the “noisiest” for the Light Vehicle Harness (LVH) subsystem. In transmit mode, the IRIS RAD A+ (VHF) shall be set to maximum transmit power 50W. The Frequency Compatible (FC) modes will be used and it is desirable that VHF Frequency Hopping (FH) modes be used. The FH mode is considered worst case for vehicle subsystem susceptibility to IRIS generated interference.

## **Test**

This Section summarizes the E3 requirements for the MSVS including the requirements for the following:

- Electromagnetic Compatibility (EMC) in accordance with MIL-STD-464A and MIL-STD-461E;
- Emanation Security (EMSEC) including TEMPEST in accordance with CID/09/15A and CID/09/14;
- Hazards of Electromagnetic Radiation to Personnel (HERP), (also known as, RF Safety and Radiation Hazard (RADHAZ)) in accordance with Health Canada, Safety Code 6 (2009) and DND Document C-55-040-001/TS-001;
- Hazards of Electromagnetic Radiation to Ordnance (HERO) in accordance with IAW C-09-153-001/TS-000, C-55-040-001/TS-001, and MIL-STD-464A;
- Hazards of Electromagnetic Radiation to Fuel (HERF) in accordance with C-55-040-001/TS-001;
- Power quality in accordance with MIL-STD-1275B;
- Electrostatic discharge (ESD) requirements in accordance with MIL-STD-1686; and
- Grounding and bonding requirements.



Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Vehicle Performance Requirements  
Electronic Equipment Requirements – Schedule BA-3-3

Attachment BA-3  
Appendix BA  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

**Applicable Documents**

MIL-STD-461E	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment, 20 August 1999
MIL-STD-464A	Electromagnetic Environmental Effects Requirements for Systems, 19 December 2002
MIL-STD-1275	Characteristics of 28 Volt DC Electrical Systems in Military Vehicles, 20 November 1997
MIL-STD-1686	Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices), Notice 1, 25 October 1995
CID/09/15A	Compromising Emanations Laboratory Test Requirements, Electromagnetic, 1995
CID/09/14	Tactical Hijack/Nonstop Test Requirements and Procedures
CIS/01/601	Technical COMSEC Instructions for the Installation of Information Technology Systems, 1 March 1998
Health Canada Safety Code 6	Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999
C-55-040-001/TS-001	Department of National Defence Radio Frequency Safety Program, 2001

## **Requirements**

### **General**

The general E3 requirement for the MSVS is stated as follows:

The MSVS shall demonstrate electromagnetic compatibility with itself, its subsystems, its operational environments and its personnel. The MSVS shall demonstrate electromagnetic information integrity to the level indicated herein.

The E3 related deliverables, including technical data and studies described in this document, are required by National Defence for a number of purposes:

- a. to provide substantiation that the E3 technical and contractual acceptance criteria for the delivery of the Vehicle to Canada has been satisfied;
- b. to provide substantiation that the risk of E3 problems which affect the operational capability of the Vehicle over its lifecycle have been mitigated to a satisfactory level;
- c. to define the baseline electromagnetic environment (EME) of the Vehicle, and to characterize it's electromagnetic performance including all sub-systems and equipment, such that changes in its EME and electromagnetic performance due to aging and deterioration can be monitored over its lifecycle;
- d. to provide quantitative data for assessing and mitigating E3 risk to or from:
  - Vehicle electronic subsystems and equipment;
  - other military vehicles, facilities, or civilian resources that the Vehicle may operate in proximity to; and
  - future mission fits, mid-life refits, engineering changes, and other changes to the Vehicle configuration or mission profile.
- e. to obtain necessary emitter information for:
  - E3 lifecycle support;
  - spectrum management (SM) requirements, including the completion of the DND 552 forms required by Industry Canada to grant licences for transmitters, and for spectrum compatibility source/victim analysis studies to be conducted; and
  - RF Safety assessments and surveys, including HERP and HERF. HERO assessments of ammunition & explosives require emitter information as specified in Part 5, Section 2, para. 24. of C-09-153-001/TS-000.

## Process

The processes by which the general requirement will be met consist of meeting the test and documentation requirement as outlined below.

- a. E3 Project Plan – this document outlines the plans for achieving the E3 General Requirement;
- b. E3 Design Report including E3 Design Impact Assessments;
- c. E3 Control Plan – this document details processes and procedures that Canada's EMI/EMC testing contractor intends to implement to control E3 issues in support of achieving the E3 General Requirement;
- d. E3 Test Plan – this document details the E3 test schedule for the components, subsystems and complete vehicle system;
- e. EMC Test Procedures – this document details the laboratory procedures (such as source /victim testing) used to demonstrate compliance with the EMC test requirement for each component, subsystem or vehicle level test set performed in support of the general requirement.
- f. EMC Test Report – this document details the results of all EMC tests (such as source /victim testing) performed and executed according to approved EMC Test procedures.
- g. EMSEC Test Procedures – this document is a TEMPEST Test Plan prepared in accordance with CID/09/15A and CIS/01/601 and is required for each component, subsystem or vehicle level test set performed in support of the general requirement.
- h. EMSEC Test Report - this document details the results of all EMSEC tests performed and executed according to approved EMSEC Test procedures.
- i. Power Quality Test Procedure – this document details the laboratory procedures used to demonstrate compliance with the power quality test requirement for each component, subsystem or vehicle level test set performed in support of the general requirement.
- j. Power Quality Test Report - this document details the results of all Power Quality tests performed and executed according to approved Power Quality Test procedures.
- k. ESD Test Procedure - this document details the laboratory procedures used to demonstrate compliance with the ESD test requirement for each component, subsystem or vehicle level test set performed in support of the general requirement. This document may be integrated with the EMC Test Procedure.

- I. ESD Test Report - this document details the results of all ESD tests performed and executed according to approved ESD Test procedures. If the ESD Test Procedure is part of the EMC Test Plan, the ESD Report shall be integrated with the EMC Test Report.
- m. Grounding and Bonding Report – this document shall tabulate the impedance values measured between the following:
  - components of the system and their interfaces;
  - components of the system and the vehicle chassis
- n. Completed DND 552 Forms (these must be submitted to DIMTPS 5 to initiate the Radio Frequency Spectrum Management process);
- o. Radio Frequency Spectrum Utilization Chart;
- p. Electromagnetic Spectrum Compatibility Report;
- q. Transmitter/Receiver Specification and Measurement Data Report;
- r. CAD model of Vehicle platform in electronic format (see below for details);
- s. Antenna Installation Details. Canada's EMI/EMC testing contractor shall provide the following for the final antenna installation:
  - antenna Vehicle Location Drawing(s);
  - antenna Obstacle Interaction Matrix. (i.e. A matrix for antennas that identifies the impact to desired antenna radiation patterns due to In Band and Out of Band RF responses, blockages, Line of Sight issues, diffraction, reflections and other impacts to the antenna radiation pattern);
  - Smith Chart test data of each antenna installation;
  - test report containing results of measurements at antenna ports of receivers over their entire operating frequency band. Measurements shall be made on antennas installed in a final production vehicle.

## EMC Requirements

The MSVS shall be compliant with MIL-STD-464A. The components and subsystems of the MSVS shall be compliant with the requirement of MIL-STD-461E for Ground Army applications. New components or subsystems of the MSVS shall meet the EMC requirements of MIL-STD-461E as given in Table 3.3-1. Qualification to this requirement may be demonstrated by either qualification testing or analysis.

**Table 3.3-1: Summary of EMC Tests for the Vehicle Subsystems**

<b>Test Method</b>	<b>MIL-STD-461E Paragraph</b>	<b>Frequency Range</b>	<b>Test Application</b>
CE102	5.5	10 kHz to 10 MHz Figure CE102-1, Applicable Curve	Power Leads
RE102	5.16	10 kHz to 18 GHz Figure RE102-4, Army Curve	Electric Field
CS101	5.7	30 Hz to 150 kHz Figure CS101-1, Applicable Curve	Power Leads
CS114	5.12	10 kHz to 200 MHz Figure CS114-1 for Ground Army Applications	I/O & Power Cable
CS115	5.13	30 Nanosecond Duration 5 Amp Peak Pulse, 30 Hz	I/O & Power Cable
CS116	5.14	10 kHz to 100 MHz I(max) = 10 Amps Damped Sinusoidal Pulse	I/O & Power Cable
RS103	5.19	2 MHz to 18 GHz 50 - 200 Volts / Meter	Electric Field

Final system EMC qualification of the MSVS shall consist of the following:

- a. A fully operational and completely integrated vehicle source victim test;
- b. A vehicle radiated emissions test in accordance with Method RE102 of MIL-STD-461E;

- c. A vehicle conducted emissions test in accordance with Method CE102 of MIL-STD-461E on all power lines entering or exiting the vehicle.

#### RF Safety requirements

Subject matter experts (SME) of Canada will perform RF Safety Tests in accordance with the requirements of Health Canada Safety Code 6 and C-55-040-001/TS-001. Canada's EMI/EMC testing contractor shall support the SME during all RF safety tests. For vehicle configurations that include provision for the support of electrically initiated ordnance (EIO), special Hazard of Electromagnetic Radiation to Ordnance (HERO) requirements will be imposed. Again, Crown SME will undertake all HERO testing. Final RF Safety qualification of the MSVS will consist of tests conducted by Crown SME.

#### Power quality requirements

The MSVS shall be compliant with MIL-STD-1275B. The components and subsystems of the MSVS should also be compliant with the requirement of MIL-STD-1275B. New components or subsystems of the MSVS shall meet the power quality requirements of MIL-STD-1275B as given in Table 3.3-2. Either qualification testing or analysis may be used to demonstrate compliance with this requirement.

**Table 3.3-2: Summary of Power Quality Tests for Vehicle Subsystem**

<b>Test Condition</b>	<b>Power Supply</b>	<b>Specification</b>	<b>MIL-STD-1275B Reference</b>
Fault Free	Vehicle	EMC	Section 5.1.1
Fault Free	Generator and Battery	Steady-State Voltage	Section 5.1.2.1
Fault Free	Generator and Battery	Ripple	Section 5.1.2.2
Fault Free	Generator and Battery	Surges	Section 5.1.2.3
Fault Free	Generator and Battery	Spikes	Section 5.1.2.4
Fault Free	Generator and Battery	Engagement Surges	Section 5.1.2.5.1
Fault Free	Generator and Battery	Cranking Condition	Section 5.1.2.5.2
Fault Free	Battery Only	Steady-State Voltage	Section 5.1.3.1
Fault Free	Battery Only	Ripple	Section 5.1.3.2
Fault Free	Battery Only	Surges	Section 5.1.3.3
Fault Free	Battery Only	Spikes	Section 5.1.3.4
Fault Free	Battery Only	Engagement Surges	Section 5.1.3.5.1
Fault Free	Battery Only	Cranking Condition	Section 5.1.3.5.2
Single Fault	Generator Only	Steady-State Voltage	Section 5.2.1
Single Fault	Generator Only	Ripple	Section 5.2.2
Single Fault	Generator Only	Surges	Section 5.2.3
Single Fault	Generator Only	Spikes	Section 5.2.4

Final qualification testing of the MSVS shall consist of MIL-STD-1275B testing of the vehicle's power system according to the test methods given in Table 3.3-2.

DC Power Quality requirement

The electrical power distribution system of the Vehicle shall be tested for conformance to the requirements of MIL-STD-1275. Compliance shall be verified by test. With approval from the Crown, the requirements of MIL-STD-1275 may be de-rated for DC supply systems other than 28Vdc.

All equipment and ancillaries which derive their electrical DC power directly from the vehicle shall conform to the requirements of MIL-STD-1275. Compliance shall be verified by performing the Power Quality tests.

The results of the Power Quality tests shall demonstrate that the Communication Radio System installed on the Vehicle will continue to operate without degradation to its performance specification during the following steady conditions:

- A. vehicle " RUNNING " and vehicle " OFF "; and
- B. vehicle ignition engagement (i.e. the *Ignition Engagement Surge* of MIL-STD-1275) and vehicle ignition *Dis-engagement*

During the transient conditions, the battery voltage may drop as low as 1 – 3 Vdc. During that time, it is up to the LCSS Radio System (not the vehicle batteries) to have enough back-up, or reserve *voltage*, to sustain this drop in vehicle battery voltage



### ESD Test Requirements

All components of the MSVS shall meet the ESD requirements of MIL-STD-1686C as given in Table 3.3-3. This requirement shall be imposed upon all equipment installed in the MSVS. As a minimum, eight points on each component of the MSVS shall be selected for ESD testing.

**Table 3.3-3: Summary of ESD Tests for the Vehicle Subsystem**

<b>Test Method</b>	<b>MIL-STD-1686C Requirement</b>	<b>Exposure Potential</b>	<b>Test Application</b>
Direct Contact Operating	Human Body Model Class 2 Table III	+ 4000 Volts - 4000 Volts	Operator controls and centre of plane for field maintained equipment
Direct Contract Non-operating	Human Body Model Class 2 Table III	+ 2000 Volts - 2000 Volts	All I/O and interface connections

Grounding and bonding requirement

The grounding points, provided in the vehicle as part of its manufacturing process will be subjected to testing to ensure proper bonding of conductive surfaces within the MSVS. The recommended impedance values are given in Table 3.3-4.

**Table 3.3-4: Bonding and Grounding Impedance for Vehicle Subsystem**

Measured from	Measured to	Maximum Impedance (milli-ohms)
Component	Cable backshell	2.5
Component	Component	25
Component	Vehicle Chassis	2.5

The following tests shall be conducted in the following order on the SMP variant:

Date:	TABLE 3.3.5 : SOURCE-VICTIM MATRIX																																
Location:																																	
Veh CFR:																																	
Victim →																																	
Source ↓	Fuel Fired Heater	Horn	Headlights (Low Beam)	Headlights (High Beam)	Turn Signal Left	Turn Signal Right	4 Way Flashers	Brake Lights	Interior Lights	Blackout Drive Lights	Blackout Marker Lights	Blackout Brake Lights	Heater/Cooler Fan (Low)	Heater/Cooler Fan (Med)	Heater/Cooler Fan (High)	Windshield Wiper	Windsheild Washer	Airconditioner	Rad A+ #1	Rad A+ #2	EPLRS	Mirror Heaters	Air reservoir auto drain	Vehicle trailer ABS	Diff Locks	CTIS	Winch	Crane	LHS	Warning Light Alarms	APS Heater windsheild	Gun Tractor DCDT	Radiator cooling Fans
Fuel Fired Heater	X																																
Engine Start																																	
Engine Stop																																	
Horn		X																															
Headlights (Low Beam)			X																														
Headlights (High Beam)				X																													
Turn Signal Left					X																												
Turn Signal Right						X																											
4 Way Flashers							X																										
Brake Lights								X																									
Interior Lights									X																								
Blackout Drive Lights										X																							
Blackout Marker Lights											X																						
Blackout Brake Lights												X																					
Heater/Cooler Fan (Low)													X																				
Heater/Cooler Fan (Medium)														X																			
Heater/Cooler Fan (High)															X																		
Windshield Wiper																X																	
Windsheild Washer																	X																
Airconditioner																		X															
Rad A+ #1																			X														
Rad A+ #2																				X													
EPLRS																					X												
Mirror Heaters																						X											
Air reservoir auto drain																							X										
Vehicle trailer ABS																								X									
Diff Locks																									X								
CTIS																										X							
Solargizer panel																											X						
Crane																												X					
LHS																													X				
Warning Lights / Alarms																														X			
APS Heater windsheilds																															X		
Gun Tractor DCDT																																X	
Radiator cooling nfan																																	X
P = Pass F = Fail X = Not Applicable																																	

**Table 3.3.6 BONDING - GROUNDING MATRIX**

Date:		<table border="1"> <tr> <th colspan="5">Witness Signatures</th> </tr> <tr> <td>Vehicle OEM</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>IRIS Integrator</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Crown</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Print Name</td> <td>Sign</td> </tr> </table>			Witness Signatures					Vehicle OEM					IRIS Integrator					Crown								Print Name	Sign
Witness Signatures																													
Vehicle OEM																													
IRIS Integrator																													
Crown																													
			Print Name	Sign																									
Location:																													
Veh CFR:																													
		Limit (Milli Ω)	Measured (Milli Ω)	Remarks	Test Equipment	Make	Model	S/N	Last Cal Date																				
Dash Ground Stud	Vehicle Ground Reference	20																											
Cab Ground Stud	Vehicle Ground Reference	20																											
Antenna # 1 Ground Stud	Vehicle Ground Reference	20																											
Antenna # 2 Ground Stud	Vehicle Ground Reference	20																											
Dash Ground Stud	Control Indicator	2.5																											
Cab Ground Stud	Stacking Box	2.5																											
Stacking Box	Radio Tray	2.5																											
Radio Tray	Radio	2.5																											
Antenna # 1 Ground Stud	Antenna # 1	2.5																											
Antenna # 2 Ground Stud	Antenna # 2	2.5																											

Conducted By	
Print Name	Sign

**Table 3.3.7 : POWER QUALITY MATRIX**

Measured (VDC)	Remarks							
		Vehicle OEM						
		IRIS Integrator						
		Crown						
		Print Name			Sign			
		Test Equipment	Make	Model	S/N	Last Cal Date		
		Conducted By						
		Print Name		Sign				

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

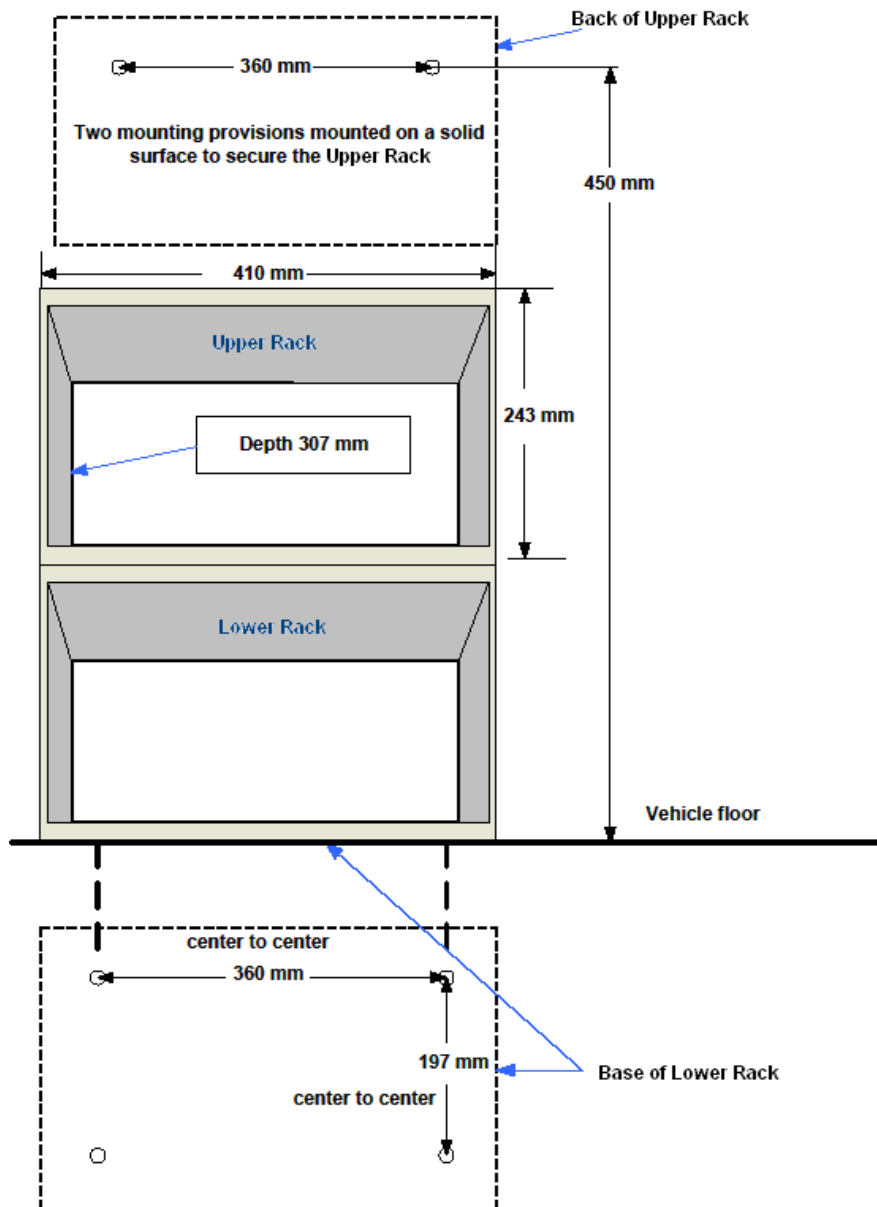
Part 7 - Resulting Contract - Acquisition

ANNEX B – STATEMENT OF WORK

APPENDIX BA – VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-3 – ELECTRONIC EQUIPMENT REQUIREMENTS

SCHEDULE BA-3-4 – MOUNTING PROVISION FOR RADIO RACK



The vehicle shall be provided with six mounting provisions to secure the two Radio Racks. The Lower Rack bottom plate shall have four mounting provisions to secure it on the floor sized for 8 mm bolts. The base of the Lower Rack has a rectangular shape and the spacing between each mounting provision required to be 360 mm x 197 mm center-to-center distances as per illustration. Two mounting provisions sized for 8 mm bolts will be required to secure the back of the Upper Rack to a solid surface. The distance between the base of the Lower Rack and the two mounting provisions is 450 mm and the holes are spaced 360 mm center-to-center and are equally spaced from the vertical center line of the Upper Rack. The total weight for the two Radio Racks with equipment is 50 kg.

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

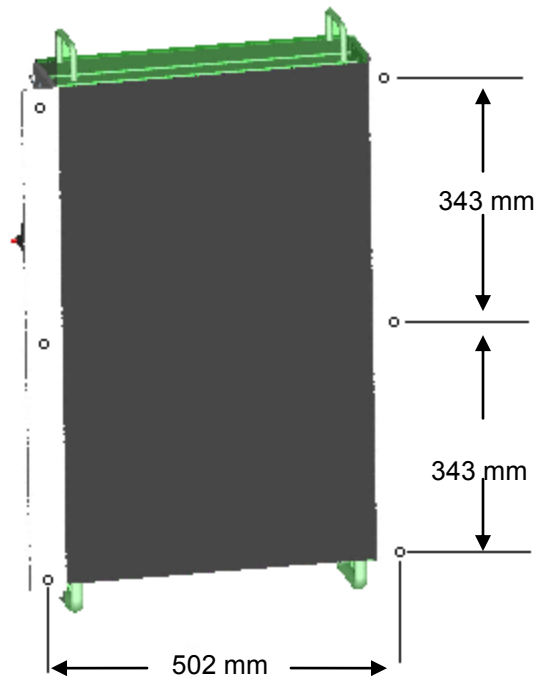
ANNEX B – STATEMENT OF WORK

APPENDIX BA – VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-3 – ELECTRONIC EQUIPMENT REQUIREMENTS

SCHEDULE BA-3-5 – MOUNTING PROVISION FOR ECM





The ECM has rectangular shape and has to be mounted vertically as per illustration inside the Vehicle Cab. ECM shall not be mounted flush to the wall, a distance at least of 2 cm from the wall shall be provided to allow air circulation for the ECM. The vehicle shall be provided with six mounting provisions sized for 8 mm bolts to secure the ECM. The spacing between each mounting provisions is 343 mm center-to-center vertically and 502 mm center-to-center horizontally.

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

#### **Part 7 - Resulting Contract - Acquisition**

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-4 – TOWED EQUIPMENT

ID	EAC	ECC	NSN	Nomenclature	Towing Eye Height (cm)	Tongue Weight (kg)	Curb Weight (kg)	GTW (kg)	Overall Width (cm)	Remarks
BA-4-2	30846	133501	2330-21-893-4392	Trailer, Cargo, 1-1/2 Ton, 2 Wheel	98	119	2425	3918	211	
BA-4-3	30846	133705	2330-21-896-4760	Trailer, Kitchen, 1-1/2 Ton	98	191	2730	2730	239	
BA-4-4	30862	133305	2330-21-908-3060	Trailer, Water Tank, 1-1/2 Ton	91	135	1317	2831	204	
BA-4-5	30850	134703	2330-20-000-0812	Trailer, Fuel, 2700L (TFAR)	91	500	2358	4613	244	
BA-4-6	30872	135301	2330-01-207-3533	Trailer, Flat Bed, 5 Ton (XM1061E1)	86	1000	2653	7189	244	Baseline Trailer, 4536 Kg Payload.
BA-4-9		137202	2330-20-002-4197	EMPL Trailer, 20 ' ISO Container	90	1000	4500	18150	252	Trailer payload may be restricted based on the maximum towing capacity of the Vehicle.
BA-4-10	31957	158122	2330-21-895-3786	Trailer, Beaver Tail, 15 Ton	91	2200	3531	17167	260	Trailer payload may be restricted based on the maximum towing capacity of the Vehicle.
BA-4-11	30874	137201	2330-21-914-4123	Trailer, PLS, 15 Tonne	96	15	5180	20180	246	Trailer payload may be restricted based on the maximum towing capacity of the Vehicle.

ID	EAC	ECC	NSN	Nomenclature	Towing Eye Height (cm)	Tongue Weight kg)	Curb Weight (kg)	GTW (kg)	Overall Width (cm)	Remarks
BA-4-12	71777	252103	1025-01-445-0991	Howitzer, M777, 155 mm, Lightweight	Towing Eye height may be min 80cm max 90cm	27-54	4463	4590	259	Clearance for M777 howitzer muzzle break must be ensured for towing. As the gun towing eye is fitted directly to the barrel of the gun it is imperative that the vehicle pintle be mounted such that when the M777 is in the towed position there will be no interference between the vehicle and gun during operation; for example, when the vehicle is executing hard left or right turns, or negotiating approach, departure and break-over angles must be IAW STANAG 4101.
BA-4-15	71332	254101	1015-21-913-4997	Howitzer, C3, 105 mm	95	95	2454	2454	213	Travelling position IAW C-71-332-000/MA-000. Clearance angles must be IAW STANAG 4101.

ID	EAC	ECC	NSN	Nomenclature	Towing Eye Height (cm)	Tongue Weight kg)	Curb Weight (kg)	GTW (kg)	Overall Width (cm)	Remarks
BA-4-16	71333	253101	1015-14-474-0476	Howitzer, LG1, 105 mm	97	≤200 Kg	1520	1520	200	Travelling position IAW C-71-333- 000/MA-001. Clearance angles must be IAW STANAG 4101.
BA-4-17	Unknown	Unknown	Unknown	Trailer SMART - T	Adjustable 65-105	208	2460	Estimate 3000- 4000kg	220	Trailer is still in design/development stages. Final numbers will come out of US qualification testing scheduled for June 2011. Trailer delivery expected in 2013 Equipped with surge brakes GTW unknown at this time expect it to be in the 3000-4000kg range

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-5 – GUN TRACTOR VARIANT REQUIREMENTS

ID	SMP - Attachment BA-5 - Gun Tractor Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-5-1	<b>1 Scope</b>	N/A	N/A	N/A	N/A	N/A
BA-5-2	This Attachment describes the performance and technical requirements specific to the Gun Tractor Variant.  The Gun Tractor Variant will be the same configuration as the Cargo with Crane Variant and will have additional electrical system provisions to facilitate operation of the M777 Howitzer.	N/A	N/A	N/A	N/A	N/A
BA-5-4	<b>2 Gun Tractor Variant Requirements - Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-5-5	<b>2.1 Standard Design</b>	N/A	N/A	N/A	N/A	N/A
BA-5-42	The gun tractor variant shall meet the requirements of Attachment BA-9 Cargo with Crane Variant Requirements, unless otherwise specified in this Attachment.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-6	The gun tractor variant shall function with the Vehicle components as an integrated system.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-7	The gun tractor variant, and its integration, shall function through the full range of loads and torsional forces of vehicle components throughout the vehicle mobility range and mission profile.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-8	<b>2.2 Gun Tractor Variant</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-5 - Gun Tractor Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-5-9	The Gun Tractor Variant shall be configured with the following: a. cargo bed consisting of the following; i. tiedowns/ ISO locks / SEV Access System (same as Cargo Variant); ii. front bulkhead (same as Cargo Variant); iii. rear bulkhead (same as Cargo with Crane Variant); and iv. auxiliary tiedowns (same as Cargo with Crane Variant). b. Gun Tractor sideboards c. cargo bed access (sides) (same as Cargo with Crane Variant); d. material handling crane (same as Cargo with Crane Variant); and e. winch IAW Attachment BA-10.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-81	<b>2.2.1 Gun Tractor Sideboards</b>	N/A	N/A	N/A	N/A	N/A
BA-5-82	The Gun Tractor shall be provided with sideboards that are capable of being set in three positions; vertical up, horizontal, and vertical down.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-84	The sideboards shall incorporate non-metallic bumpers to prevent metal to metal contact, noise and abrasion when the sideboards are in the vertical up and vertical down positions.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-85	The sideboards shall function as a walkway when set in a horizontal position. In this configuration the walking surface of the sideboards shall align with the walking surface of the cargo deck, and shall not present a tripping hazard. The sideboards shall withstand dynamic loading conditions to accommodate two (2) kitted soldiers while walking and standing, weighing a total of 500lbf, in addition to four (4) projectiles weighing a total of 500lbf for a total load of 1000lbf.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-97	The maximum permissible load for each sideboard shall be marked on each sideboard.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-86	The sideboards, when in the vertical up position, shall be at a nominal height of 0.45 meters, as measured from the cargo bed floor.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-87	The sideboards shall be capable of withstanding the lateral load forces exerted by a 1,134 kg pallet, unsecured and placed against the sideboards, throughout the full range of all mobility requirements.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A



ID	SMP - Attachment BA-5 - Gun Tractor Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-5-88	The sideboards shall be capable of being removed by no more than two soldiers. If tools are required for removal of the sideboards, the tools shall be provided with the Vehicle and stowed with the Vehicle Tool Kit IAW Attachment BA-1.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-91	<b>2.2.2 Cargo Deck Access</b>	N/A	N/A	N/A	N/A	N/A
BA-5-92	The Gun Tractor sideboards when secured in the horizontal position shall have provisions for attaching the existing SEV Access Stairs and SEV Ladder. Interface requirements for the ladder and stairs are shown in Part 7, Annex B, Appendix BA, Attachment BA-7, Schedule 7-1	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-93	<b>2.2.3 Sideboard Non-Slip</b>	N/A	N/A	N/A	N/A	N/A
BA-5-94	The walking surfaces of the sideboard when secured in the horizontal position shall be treated with M24667-B1 or M24667-D1 non-slip coating IAW MIL-PRF-24667.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-45	<b>2.2.4 M777 Howitzer Towing Pintle</b>	N/A	N/A	N/A	N/A	N/A
BA-5-46	The gun tractor variant shall be provided with a swivel type, greaseable towing pintle to tow the M777 Howitzer as detailed in Attachment BA-4 (Object ID BA-4-12).	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-10	<b>2.2.5 Power Receptacle</b>	N/A	N/A	N/A	N/A	N/A
BA-5-11	The gun tractor variant shall be provided with a 24 VDC, Type 1, NATO standard auxiliary-start receptacle, IAW STANAG 4074, located adjacent to the trailer pintle hook to allow powering of the M777 howitzer.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-14	The electrical circuit for the power receptacle shall be rated for 50A and be protected with an appropriately rated, quick reset type circuit breaker in an easily accessible location. The receptacle shall be labelled with the voltage and current ratings.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-15	<b>2.2.6 Gun Data Cable</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-5 - Gun Tractor Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-5-16	The gun tractor variant shall be provided with the M777 Gun Data Cable (IAW NSN 5995-99-974-9354, cable assembly, special purpose, electrical drawing #3854-86782) provided by Canada as Government Supplied Materiel (GSM). One end of the cable shall be located adjacent to the pintle hook and the other end shall be located inside the passenger cab area. The location of the cable end in the cab shall allow for connection of the M777 Gun to the Gun Management System (GMS) Detachment Commanders Data Terminal (DCDT). The diameter of the cable is approximately 1.9 cm with a cable length of 18 m.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-17	The gun tractor variant's ability to comply with the survivability requirements, IAW Attachment BA-6, shall not be impacted as a result of the routing of the M777 Gun Data Cable from the rear of the vehicle to the inside passenger cab area when the Vehicle is fitted with the APS.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-5-44	<b>2.2.7 Detachment Commanders Data Terminal (DCDT)</b>	N/A	N/A	N/A	N/A	N/A
BA-5-18	The gun tractor variant shall be provided with the GMS Detachment Commanders Data Terminal (DCDT) mounting bracket provided by Canada as GSM. This mounting bracket shall be located so as to allow the vehicle passenger to secure the GMS DCDT to the bracket, and use the GMS DCDT while the vehicle is in motion. The GMS DCDT mounting bracket is 305 mm long by 225 mm high by 160 mm deep (when keyboard is unfolded, the GMS DCDT Bracket becomes 365 mm deep) with a mass of approximately 25 kg. The mounting location shall be strong enough to safely secure the DCDT, with its mounting bracket, to the vehicle mounting location, in the case of a vehicle crash situation.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)

W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-6 - ARMOUR PROTECTION SYSTEM (APS) REQUIREMENTS

ID	Attachment BA-6 - APS Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-6-1	<b>1 Armour Protection System (APS) - Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-6-2	<b>1.1 Armour Protection System - General</b>	N/A	N/A	N/A	N/A	N/A
BA-6-37	All variants of the Vehicle shall be capable of accepting the installation of the APS as described in this Attachment.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-3	<b>1.2 Vehicle Operation</b>	N/A	N/A	N/A	N/A	N/A
BA-6-4	All Vehicle systems, sub-systems and functions shall operate properly with the APS installed.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-19	<b>1.3 APS Installation</b>	N/A	N/A	N/A	N/A	N/A
BA-6-38	The APS shall be provided such that it can be installed on a Vehicle by requiring no more than three soldiers working no more than sixteen hours each within a maximum overall period of two days. The run flat / beadlock inserts (BA-6-76) are not required to be included as part of this installation. The installation will be conducted in an army field workshop environment enabled by material handling equipment to lift or support components of the APS. The installation shall not require the introduction of "APS specific" Special Tools and Test Equipment (STTE).	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-6	<b>1.4 Survivability</b>	N/A	N/A	N/A	N/A	N/A
BA-6-7	The APS shall provide protection from the Kinetic Energy (KE) Threat <b>Level 3</b> IAW STANAG 4569. Qualification will be conducted IAW NATO publication AEP-55 (Vol 1). The alternative multi-hit procedure (Refer to Paragraph 4 of Annex B to NATO publication AEP-55 (Vol 1)) will be used to validate the KE Threat compliance of the transparent armour components of the APS.	CAN	N/A	POC - Provide a 3 <sup>rd</sup> party test report.	Mandatory Requirement. No points allotted.	

ID	Attachment BA-6 - APS Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-6-8	The APS shall provide protection from Blast Mine Threat <b>Level 2a</b> IAW STANAG 4569. Qualification will be conducted IAW NATO publication AEP-55 (Vol 2).	CAN	N/A	POC - Provide a 3 <sup>rd</sup> party test report.	Mandatory Requirement. No points allotted.	
BA-6-67	The APS shall provide protection from Blast Mine Threat <b>Level 2b</b> IAW STANAG 4569. Qualification will be conducted IAW NATO publication AEP-55 (Vol 2).	CAN	N/A	POC - Provide a 3 <sup>rd</sup> party test report.	Mandatory Requirement. No points allotted.	
BA-6-29	<b>1.5 APS Equipped Vehicle Cab</b>	N/A	N/A	N/A	N/A	N/A
BA-6-27	The APS shall meet the visibility requirements IAW MIL-STD-1472 paragraphs 5.12.5.1 and 5.12.5.2.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-32	The external rear-view mirrors with the APS installed shall be capable of being adjusted and defrosted without having to exit the Vehicle cab. The mirror supports shall be vibration resistant and shall allow for the mirror assemblies to fold to the front or rear without the use of tools.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-75	Each door shall be provided with a lock on the Vehicle interior. A mechanism to open each door from the exterior and interior in the case of a complete power loss and while all locks are engaged shall be provided. The exterior mechanism shall require the use of on-board tools to operate without assistance from the cab occupants.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	Attachment BA-6 - APS Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-6-24	The APS windshield defrosting and defogging system shall be capable of clearing the operator's field of view through driver's and passenger's side of the front windshield and the portion of the left and right hand side window's forward of his seated position. The APS windshield defrosting and defogging system shall meet applicable country of origin laws regulations and industry standards.	CON (TEST)	N/A	POC - Provide a test report.	Mandatory Requirement. No points allotted.	
BA-6-28	All transparent armour used in the APS shall allow use of Image Intensification (II) night vision equipment by the crew.	CON (TEST)	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-56	Stowage and mounting provisions for any of the equipment listed in Attachment BA-1 and BA-3 to be stowed or mounted within the cab compartment shall positively secure the equipment to prevent it from becoming loose and becoming a projectile.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-58	The cab's roof shall be capable of supporting a Weapon Station (WS) weighing no less than a total of 100 kg.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-128	The cab shall be provided with the following internal space and electrical interface provisions for future installation of WS equipment:	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-136	a) The APS cab shall have a space envelope sized 55 cm H ´ 40 cm W ´ 20 cm D to accommodate the installation of the interior WS components.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	Attachment BA-6 - APS Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-6-137	b) The APS shall have one power receptacle rated for 40 Amps at 24 VDC protected with a circuit breaker. The receptacle shall include a connector IAW MS3102R22-2S, and a protective cover IAW MS25043-22DA (Ref DND Dwg 9277521). This receptacle shall be mounted securely on an accessible location beside the space reserved to the weapon station equipment. The receptacle shall be labelled with the voltage and current ratings.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-138	The APS shall be equipped with a power connection point (one positive post and one negative post) within the cab where the cable from the ECM can be connected. This point shall be rated for 80 amps at 24 VDC and shall be protected with a circuit breaker. The point shall be labelled with the voltage and current rating.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-123	The APS shall be coated with Chemical Agent Resistant Coating (CARC) system IAW MIL-DTL-53072.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-124	The APS exterior topcoat shall be IAW MIL-DTL-64159 Type II or MIL-C-53039, colour 34094 (flat green) IAW Fed-Std-595.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-125	The APS design, materials used in fabrication, surface preparation products, paint system and the corrosion preventive coatings shall function together as a system to prevent corrosion related failures of the APS for the duration of the 20 year service life.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-131	The exterior topcoat paint colour and gloss shall match for all APS and Vehicle exterior surfaces.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-132	Painted interior surfaces of the APS shall be IAW MIL-PRF-22750, colour 34094 (flat green) IAW Fed-Std-595.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-133	The APS underbody shall have a corrosion preventative coating system IAW SAE J1959 or applicable country of origin laws, regulations and industry standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	Attachment BA-6 - APS Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-6-134	All APS areas where a soldier may step to carry out any functions and duties related to camouflaging, operating, maintaining or servicing the Vehicle including all installed systems, subsystems and components shall have non-slip surfaces IAW MIL-PRF-24667, Type I.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-135	Non-painted interior surfaces of the APS shall be non-reflective and of a dark, muted colour.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-139	The Gun Tractor Vehicle variant shall be provided with the M777 gun data cable and GMS DCDT mounting bracket IAW Appendix BA-5.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-57	<b>1.6 Roof Hatch</b>	N/A	N/A	N/A	N/A	N/A
BA-6-69	The roof of the Vehicle cab shall be provided with a hatch. The hatch shall not interfere physically with any other equipment mounted on cab's roof such as WS or antennas. The hatch shall be provided as a means of egress by or access to cab occupants during emergency operations. The hatch shall incorporate a mechanism to hold it securely in its open position.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-70	The hatch shall be provided with a lock on the Vehicle interior. The level of effort required to operate the lock and open the hatch for any Vehicle orientation shall not exceed the force requirements as indicated in paragraph 5.7.7.2.2 of MIL-STD-1472.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-71	The hatch opening shall accommodate a 95th percentile male wearing the Integrated Clothing Ensemble (ICE) fighting order, including winter clothing and the opening dimensions shall be no less than those indicated in MIL-STD 1472 paragraph 5.7.7.3. "Bulky" clothing shall be selected for rectangular hatches. In all cases, no opening dimension shall be less than 0.5 m (20 in).	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A



ID	Attachment BA-6 - APS Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-6-72	A mechanism to open the hatch from the exterior while all locks are engaged shall be provided. The exterior mechanism shall require the use of on-board tools to operate and no assistance from the cab occupants.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-76	<b>1.7 Run Flat Inserts</b>	N/A	N/A	N/A	N/A	N/A
BA-6-77	The APS shall be provided with run flat / beadlock inserts for installation in all wheel assemblies on the Vehicle including the spare.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-20	<b>1.8 APS Storage and Packaging</b>	N/A	N/A	N/A	N/A	N/A
BA-6-22	The Vehicle APS DEI includes its packaging. It must be packaged in reusable, stackable, waterproof containers. Packaging shall be as per Level A (Full Military Package), Method IA-5 of the Canadian Forces Packaging Specification D-LM-008-001/SF-001.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-6-40	<b>2 Armour Protection System (APS) - Rated Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-6-43	<b>2.1 APS Installation</b>	N/A	N/A	N/A	N/A	N/A

ID	Attachment BA-6 - APS Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-6-44	The APS should be provided such that it can be installed on a Vehicle by requiring no more than two soldiers working no more than four hours each. The run flat / beadlock inserts (BA-6-76) are not required to be included as part of this installation. The installation will be conducted in an army field workshop environment enabled by material handling equipment to lift or support components of the APS. The installation shall not require the introduction of "APS specific" Special Tools and Test Equipment (STTE).	CON	N/A	POC – Provide a list of the major installation activities with the associated time schedule and required tools.	Full points will be allotted if it is demonstrated that the requirements is fully met. No points will be allotted if requirements are not fully met.	N/A
BA-6-45	<b>2.2 Survivability</b>	N/A	N/A	N/A	N/A	N/A
BA-6-12	The APS should provide protection from the Ballistic (Kinetic Energy) Threat <b>Level 4</b> IAW STANAG 4569. Qualification will be conducted IAW NATO publication AEP-55 (Vol 1). The alternative multi-hit procedure (Refer to Paragraph 4 of Annex B to NATO publication AEP-55 (Vol 1)) will be used to validate the KE Threat compliance of the transparent armour components of the APS.	CAN	N/A	POC – 3 <sup>rd</sup> Party Test Report; or Technical Report as described at Part 4, Attachment 5, Section 2, Schedule 5-1.	Points will be allocated as per Part 4, Attachment 5, Section 2, Schedule 5-1.	

ID	Attachment BA-6 - APS Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-6-13	The APS should provide protection from Blast Mine Threat <b>Level 3a</b> IAW STANAG 4569. Qualification will be conducted IAW NATO publication AEP-55 (Vol 2).	CAN	N/A	POC - 3 <sup>rd</sup> Party Test Report; or 3D Numerical Simulation Report; or Technical Report as described at Part 4, Attachment 5, Section 2, Schedule 5-1.	Points will be allocated as per Part 4, Attachment 5, Section 2, Schedule 5-1.	
BA-6-68	The APS should provide protection from Blast Mine Threat <b>Level 3b</b> IAW STANAG 4569. Qualification will be conducted IAW NATO publication AEP-55 (Vol 2).	CAN	N/A	POC - 3 <sup>rd</sup> Party Test Report; or 3D Numerical Simulation Report; or Technical Report as described at Part 4, Attachment 5, Section 2, Schedule 5-1.	Points will be allocated as per Part 4, Attachment 5, Section 2, Schedule 5-1.	
BA-6-73	The APS should provide protection from Improvised Explosive Device (IED) Fragmentation threats IAW the methodology and a selective set of classified settings based on the "MSVS APS Survivability Testing Methodology" document (Schedule BA-6-1).	CAN	N/A	POC - 3 <sup>rd</sup> Party Test Report as described at Part 4, Attachment 5, Section 2, Schedule 5-1.	Points will be allocated as per Part 4, Attachment 5, Section 2, Schedule 5-1.	

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Vehicle Performance Requirements  
Armour Protection System (APS) Requirements

Attachment BA-6  
Appendix BA  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

ID	Attachment BA-6 - APS Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-6-74	The APS should provide protection from the IED Blast threats IAW the methodology and a selective set of classified settings based on the "MSVS APS Survivability Testing Methodology" document (Schedule BA-6-1)	CAN	N/A	POC - 3 <sup>rd</sup> Party Test Report as described at Part 4, Attachment 5, Section 2, Schedule 5-1.	Points will be allocated as per Part 4, Attachment 5, Section 2, Schedule 5-1.	

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B – STATEMENT OF WORK

APPENDIX BA – VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-6 – ARMOUR PROTECTION SYSTEM (APS)  
REQUIREMENTS

SCHEDULE BA-6-1 – APS SURVIVABILITY TESTING METHODOLOGY

SECRET (Unclassified less Annex D)

## TECHNICAL NOTE

**TITLE** MSVS APS Survivability Testing Methodology  
**TASK** DEV 12RW11

## REFERENCES

- A. Attachment BA-6 (Armour Protection System (APS) Requirements)
- B. AEP-55 Vol 1 Ed 2, August 2011
- C. AEP-55 Vol 2 Ed 2, August 2011.
- D. CONWEP TM-5-855-1

## OBJECTIVE

The main objective of this document is to define the survivability testing procedures for assessing protection against ballistic, mine and Improvised Explosive Device (IED) threats.

## TESTING PROCEDURES

### I- Ballistic

The ballistic tests shall be conducted in accordance with (IAW) NATO publication AEP 55 Vol 1 (Ref. B).

### II- Mine

The mine tests shall be conducted IAW NATO publication AEP 55 Vol 2 (Ref. C).

### III- IED

The IED testing procedures are presented in Annexes A and B of this document. Annex A describes the recommended testing procedures for assessing protection against Fragmentation IED whereas Annex B depicts the recommended procedures for assessing protection against Blast IED.

## CLASSIFIED DATA

Classified reference data needed for Annexes A and B is grouped in Annex D and will be delivered separately.

SECRET (Unclassified less Annex D)

## ANNEX A –Recommended Testing Procedures for Assessing Side Fragmentation IED

Current Technical Requirements specify a rated requirement to protect against a road side fragmentation IED defined by a heavy fragmentation shell (**Annex D – A1**) detonated within a volume specified in Figures A1 and A2.

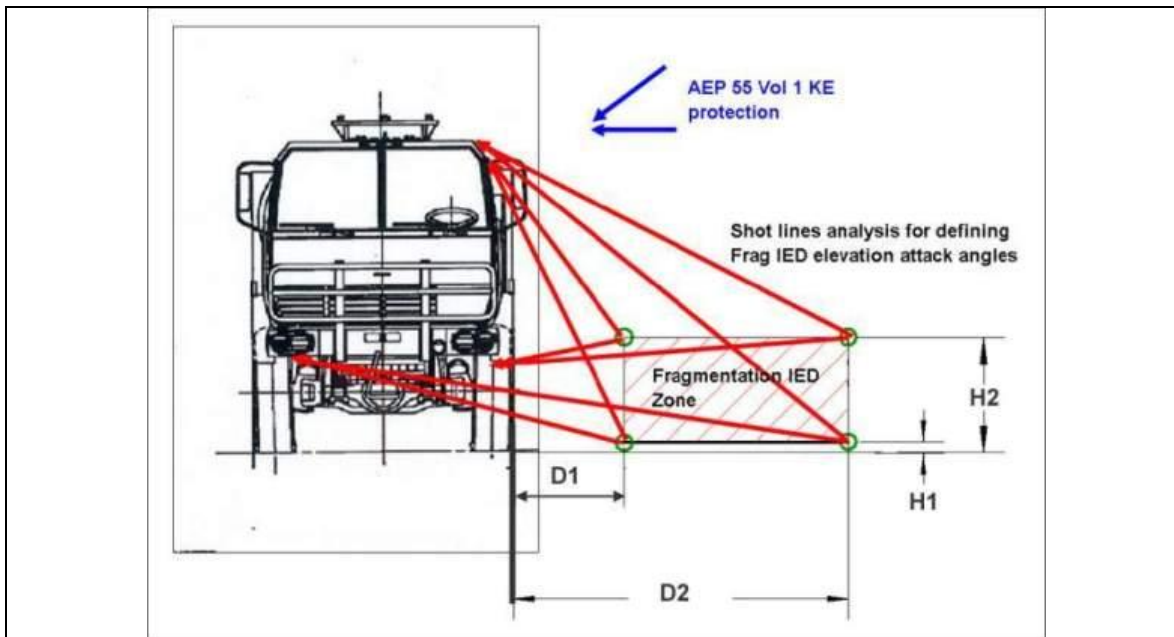


Figure A1: Fragmentation IED zone definition (elevation)

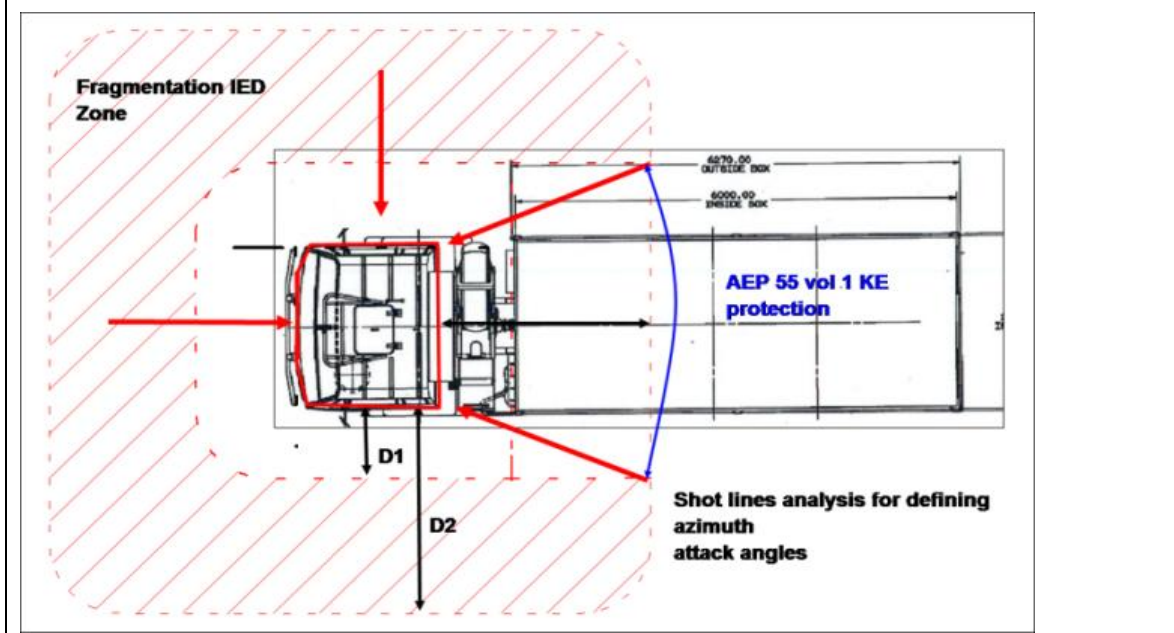


Figure A2 : Fragmentation IED zone definition (Azimuth)

SECRET (Unclassified less Annex D)

SECRET (Unclassified less Annex D)

The fragmentation IED volume is determined by the external edge of the crew space and the dimensions given in Table A1.

Table A1: Fragmentation IED Zone Parameters	
Parameter	Value
D1	<b>Annex D - A2</b>
D2	<b>Annex D - A3</b>
H1	<b>Annex D - A4</b>
H2	<b>Annex D - A5</b>

For qualifying a vehicle against the road side fragmentation threat, the two following phases are required:

- 1) Phase 1: Laboratory Test using Fragment Simulating Projectiles (FSP);
- 2) Phase 2: Field trial using **Annex D – A1**.

### Phase 1: Laboratory Test Using FSP

General testing procedure for assessing side fragmentation IED using FSP will be done following guidelines provided in AEP-55 Vol 1 (Ref. B). Because of the specific nature of this threat, testing parameters are modified to better simulate the ballistic terminal effects of this threat.

As observed in experimental trials, natural fragment mass and shape distribution is composed of a wide range of values, resulting in fragments having different penetrating efficiencies. Two main families of fragments are observed:

- 1) Large quantity of fragments having lower perforation power but capable to penetrate less efficient armour and generate damages in the armour system. These are referred to as damage generators (Dam);
- 2) A reduced number of fragments having a high perforation power. These are referred to as penetrators (Pen).

The following parameters shall be used during laboratory testing of side fragmentation IED to simulate the two identified families of fragments:

### FSP Specification and Velocity

Damage generators (Dam):

- 1) FSP: 20mm, 54g FSP as defined in AEP-55 Vol 1;
- 2)  $V_{\text{Dam}}$ : between **Annex D-A6** and **Annex D-A7**

Penetrators (Pen):

- 1) FSP: 20mm, 54g FSP as defined in AEP-55 Vol 1;
- 2)  $V_{\text{pen}}$ : between **Annex D-A7** & **Annex D-A8**

### Angle of Attack/Impact

The angles of impact to be considered for developing the test plan and for performing the vulnerability area evaluation will be dictated by the positioning of the threat, within the fragmentation IED volume, and the vehicle geometry. The worst case impact conditions (conditions presenting the lowest angle of impact, as defined in Ref B) shall be selected for performing Main Area (MA) and Structural Weak Area (SWA) testing. Assessment of the floor sections is required if sections of the floor are exposed to the threat.

SECRET (Unclassified less Annex D)



SECRET (Unclassified less Annex D)

### **Main Area (MA) Evaluation**

Each MA (opaque & transparent) should be tested in multi-hit and single-hit modes to maximize the confidence level and consequently the associated score value. The multi-hit mode shall be performed with triangles, each composed of two (2) damage generator (Dam) fragments and one (1) penetrator (Pen) fragment whereas the single-hit mode will consist of single Pen fragments . Up to five (5) triangles should be shot on the MA (i.e. five (5) Dam pairs and five Pen shots) in multi hit mode. In addition to the Pen shots obtained as part of the multi-hit mode, single-hit Pen shots should be fired at the MA to complete the evaluation. In total, twenty two (22) shots (5 pairs of Dam and 12 Pen shots) should be utilized to assess the MA. Additionally, testing of MAs shall be done to exploit localized weak areas (LWAs) within the armour system. LWAs shall be exploited using the penetrator (Pen) fragments.

The multi-hit testing parameters are summarized in Table A2 and Figure A3. Table A3 contains a summary of the number of shots required for each identified MA of the APS.

Table A2: Multi-hit specifications for fragmentation IED	
Dimension/definition	Value
Distance between shots (N)	50 mm (or less) to 150 mm
Tolerances of shot impact	-0 / +20 mm
Minimum distance to edge	50 mm
Order of shot	#1, #2, #3
Shot velocity: #1, #2: Damage generators #3: Penetrator	between <b>Annex D-A6 and A7</b> between <b>Annex D-A7 and A8</b>

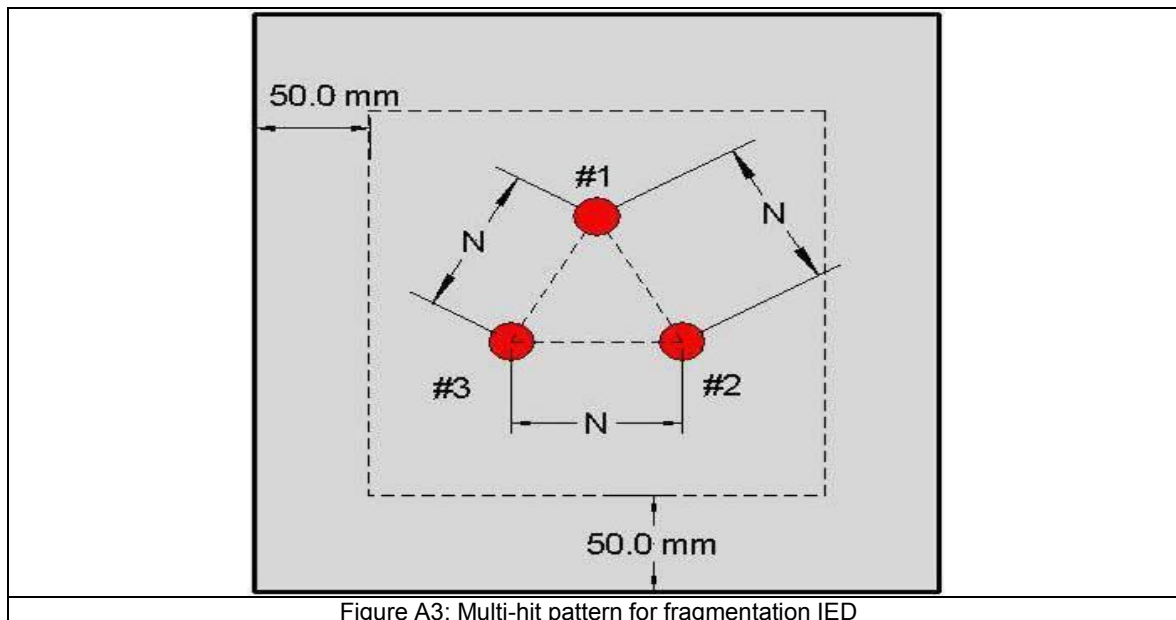


Figure A3: Multi-hit pattern for fragmentation IED

SECRET (Unclassified less Annex D)

SECRET (Unclassified less Annex D)

Table A3: Maximum shots required for MA evaluation		
# of Damage <i>pairs</i>	# of Penetrator shots	Total # of shots
5	12	22

### Structural Weak Area (SWA) and Exclusion Zone (EZ) Evaluation

This evaluation shall be done as specified in AEP-55 Vol 1 phase 3. More than three (3) and up to ten (10) shots should be fired in a single hit mode on SWA using the penetrator FSP.

### Vulnerable Area Evaluation

Vulnerable area assessment shall be done as specified in AEP-55 Vol 1 Section 3.6 to determine the relative vulnerable area (RVA) of the vehicle against this threat.

The protected area (i.e. area with **no** complete penetration (CP)) defined through the vulnerability analysis will be considered in the scoring activity.

### Testing Procedures and Reporting

General testing procedures defined in AEP-55 Vol 1 shall be followed.

The following documentation shall be provided to assess the armour system performance:

- 1) Detailed test plan identifying the shot line analysis and the selection of the armour component including identification of MA, LWA and SWA. Test plan shall include drawings or schematic representations relating the armour components tested (MA and SWA) to the physical vehicle armour system. The test plan shall be prepared in accordance with guidelines provided in AEP-55 Vol 1 Section 3.3.
- 2) For each target tested, the ballistic test report information identified in AEP-55 Vol 1 Section 5.9;
- 3) A vulnerability assessment report following guidelines provided in Section 3.6.1 of AEP-55 Vol 1. The vulnerability assessment shall provide a summary of each armour panel type with its associated proportion with respect to the full vehicle protected area.

SECRET (Unclassified less Annex D)

## Phase 2: Field Trial Using an Artillery Shell

In addition to the laboratory tests, live fire tests using the determined threat are required. Live fire testing using a natural fragmentation device results in less control over the testing conditions, therefore it is important a sufficient number of repetitions is done to provide reasonable confidence in the results. Live fire testing is an armour system integration test and should be conducted after the controlled laboratory tests conducted in Phase 1.

Live fire tests shall be done using the ammunition described in Table A4.

Table A4: Fragmentation device description	
Name	<b>Annex D-A1</b>
Total Weight	<b>Annex D-A9</b>
Explosive weight (kg)	<b>Annex D-A10</b>
Explosive type	<b>Annex D-A11</b>

## Test Target

A full armoured cab or sections of the armoured cab shall be used for the field fragmentation test. If an armoured cab section is used, this section shall be similar in terms of structure, material and assembly to the full armoured cab to provide representative test conditions. A typical test set-up for conducting a full armoured cab test is provided in Figure A4. The charge shall be positioned within the fragmentation IED zone defined by Figure A1, Figure A2 and Table A1. The charge position shall be selected as to provide the assessed worst case conditions and to exploit potential weak areas of the armour. The selection of the charge position for the test shall be well justified and documented. Additionally, if a test repetition is desired to boost confidence in the results, test can be repeated using the same or a new test item. The tests can target the same or different armour areas. If required, armour repairs are acceptable after each test.

For this test the longitudinal axis of the shell shall be parallel to the ground and oriented as specified in Figure A4. The shell shall be positioned so that the main fragmentation zone is directed towards the targeted area. The shell orientation with respect to its axis parallel to the vehicle longitudinal axis shall be determined using:

$$\Theta = \text{Azimuth attack angle} + \text{Annex D-A12}$$

(Note: the azimuth attack angle shown in Figure A4 is zero (0).)

Witness sheets as per AEP-55 Vol 1 shall be installed in the crew compartment to witness fragment impact and CP inside the crew compartment. The witness panel shall be at 150mm  $\pm$  25mm from the back face of the armour system. The witness sheet can be backed with Styrofoam and plywood panels to facilitate integration within the vehicle compartment. The witness sheet shall cover all the surfaces exposed to the threat. A penetration through the inner layer of the armour system in an area not covered by a witness sheet will be considered a CP.

To pass the test, there shall be **no** fragment CP inside of the occupant compartment.

SECRET (Unclassified less Annex D)

SECRET (Unclassified less Annex D)

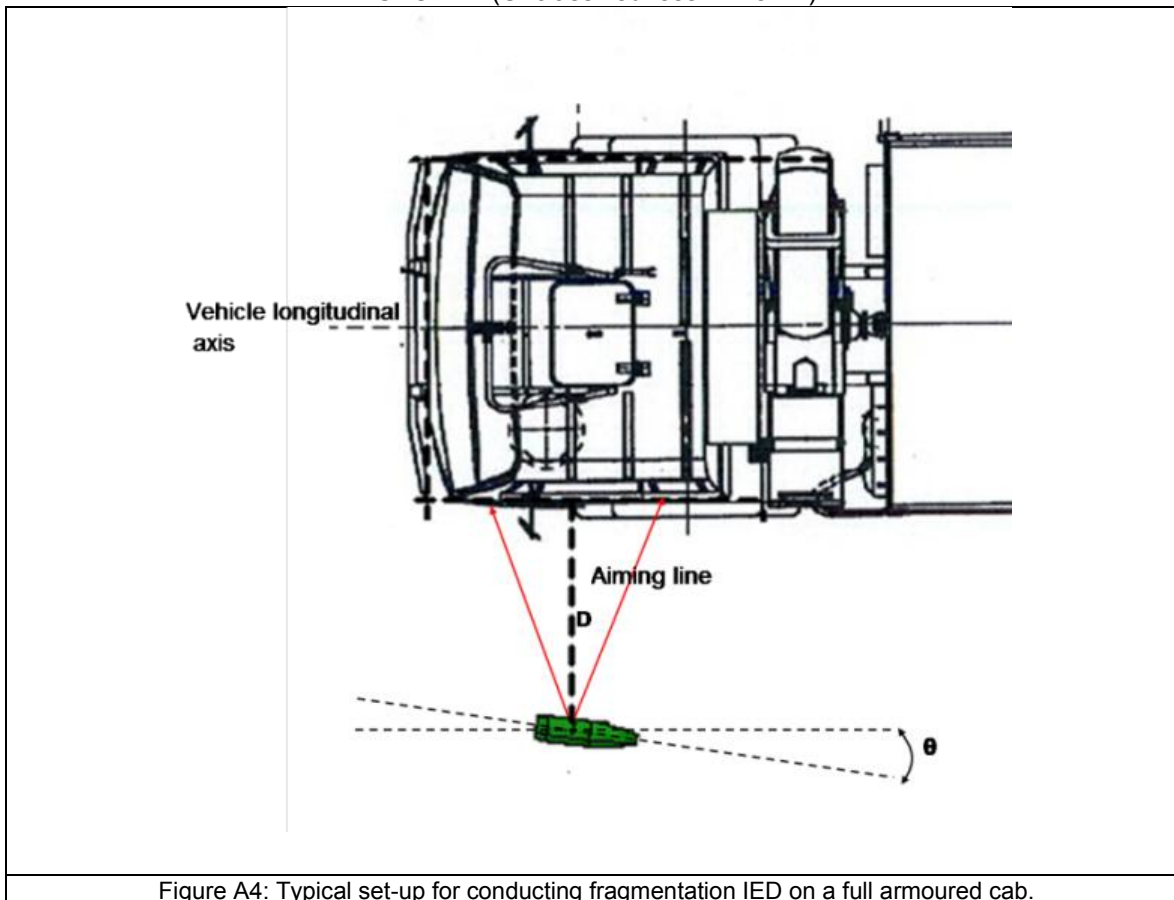


Figure A4: Typical set-up for conducting fragmentation IED on a full armoured cab.

## Reporting

The following documentation shall be provided to assess the armour system performance:

- 1) Detailed test plan identifying the selection of the shell position with justification that the selected location provides assessed worst case conditions. Drawing or schematic of the vehicle armour panels with identification.
- 2) Test report including:
  - a. Date & place of the trial;
  - b. Photo and drawing of the test set-up (including measured distances & angles);
  - c. Photo of the shell (with description);
  - d. Vehicle target description and pre-detonation picture of the outside and inside of the cabin in the area of the test;
  - e. Pictures of the witness sheet integration;

SECRET (Unclassified less Annex D)

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Vehicle Performance Requirements  
Armour Protection System Requirements – Schedule BA-6-1

Attachment BA-6  
Appendix BA  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

SECRET (Unclassified less Annex D)

- f. For each test, picture of the strike surfaces, back face and witness sheet. Observations on # of impact on strike face and # of CP for each armour panels.
- g. For each test, indication of compliance with the specified ballistic performance requirement.

SECRET (Unclassified less Annex D)

**ANNEX B – Recommended Testing Procedures for Assessing Side Blast IEDs**

Side blast IED capability shall be tested using a full scale vehicle system (engineered vehicle or real vehicle). The target vehicle tested shall have similar geometry, amour materials, structure (including wheel and suspension system and seating system), and mass property (mass, center of gravity and moments of inertia) as an operational vehicle.

A typical test set-up for conducting full vehicle test is provided in Figure B1. The charge shall be oriented in line with the section of the vehicle considered the weakest part of the vehicle or which presents the assessed worst case conditions for the vehicle occupants.

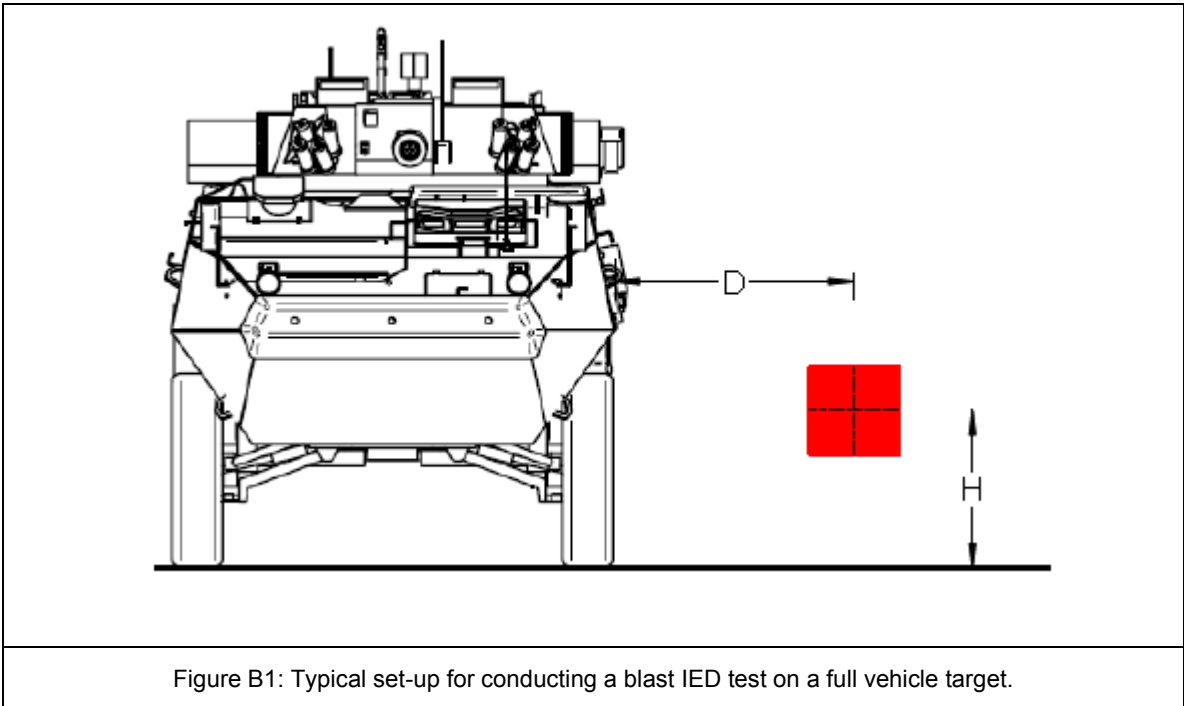


Figure B1: Typical set-up for conducting a blast IED test on a full vehicle target.

Table B1: Specifications for IED blast test	
Dimension/definition	Value
Distance to target (D)	Between <i>Annex D-B1 and B2</i>
HoB (H)	<i>Annex D-B3</i>

The charge height of burst is measured from the center of the charge to the ground. It is recommended to use a wooden table to adjust the charge to the desired height.

**Test Charge Details**

The charge used for qualification testing will be a bare high explosive (HE) charge. The mass of HE for performing the qualification test should be adjusted to provide the effective charge weight of TNT selected by the contender.

SECRET (Unclassified less Annex D)

$$M_{EXP} = M_E \frac{H_{TNT}^d}{H_{EXP}^d} \quad (B1) \text{ (From Ref. D)}$$

Where:

$M_{EXP}$  = Mass of explosive used;

$M_E$  = Effective charge weight of TNT;

$H_{TNT}^d$  = Heat of detonation of TNT;

$H_{EXP}^d$  = Heat of detonation of explosive being used.

Certified explosive characteristics of the material being used, including heat of detonation and density, shall be provided.

### **Blast Charge - Shape and Dimensions**

The explosive charge shall be of spherical, cubical or cylindrical shape. The charge can be made of cast or packed explosives and be detonated using a booster charge or detonation cords near its center to ensure complete initiation of the explosive.

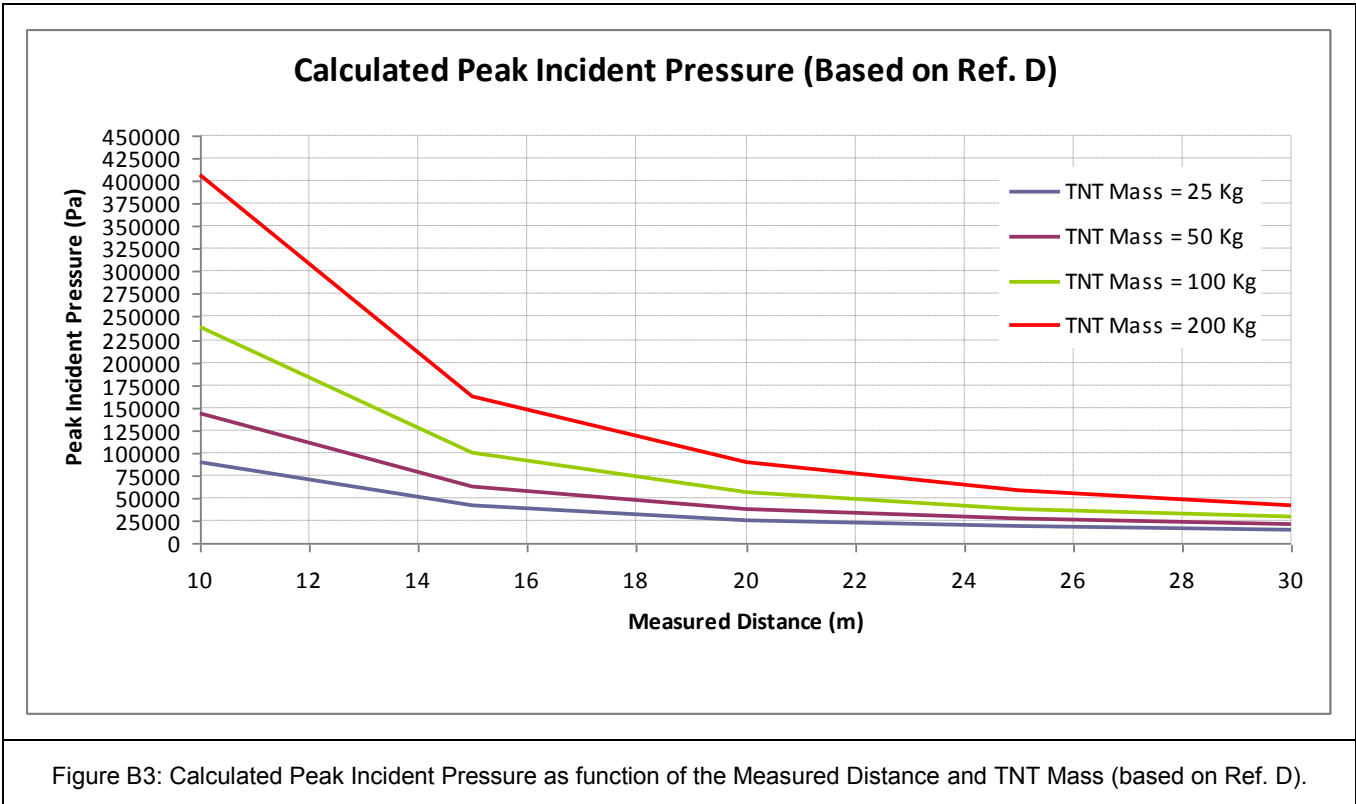
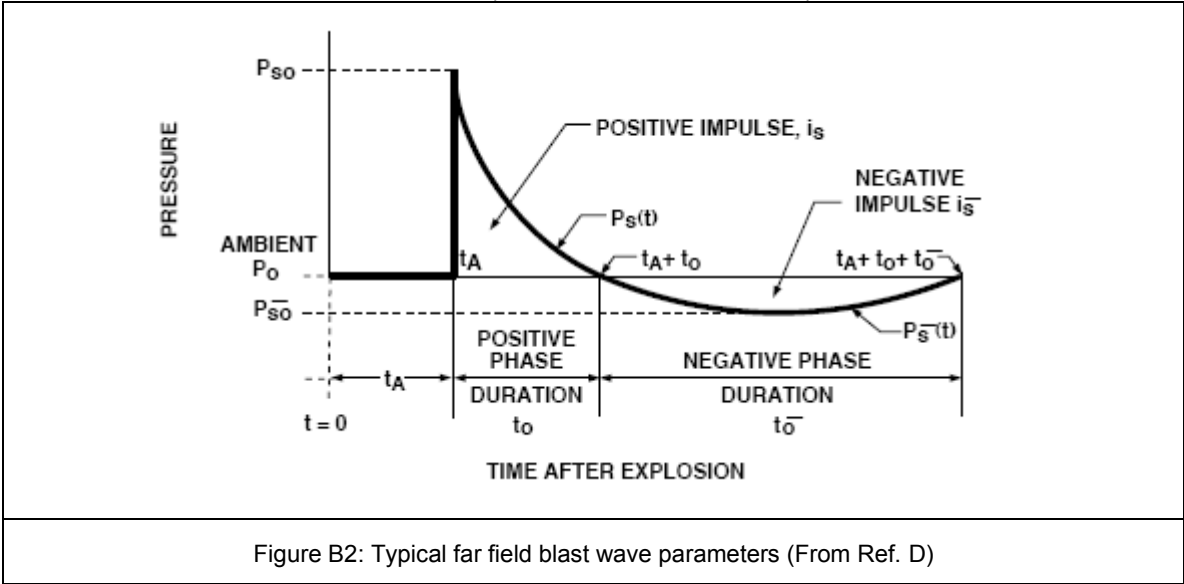
Actual dimensions for the test charges will depend on the type of explosive material selected. For cylindrical charges, H/D ratio shall be between 0.95 and 1.05. The charge shall be contained in a cardboard or similar container.

The maximum allowable dimensions of the test charge are determined using an explosive density equal to 0.8 the actual explosive material density.

### **Charge Qualification and Quality Control**

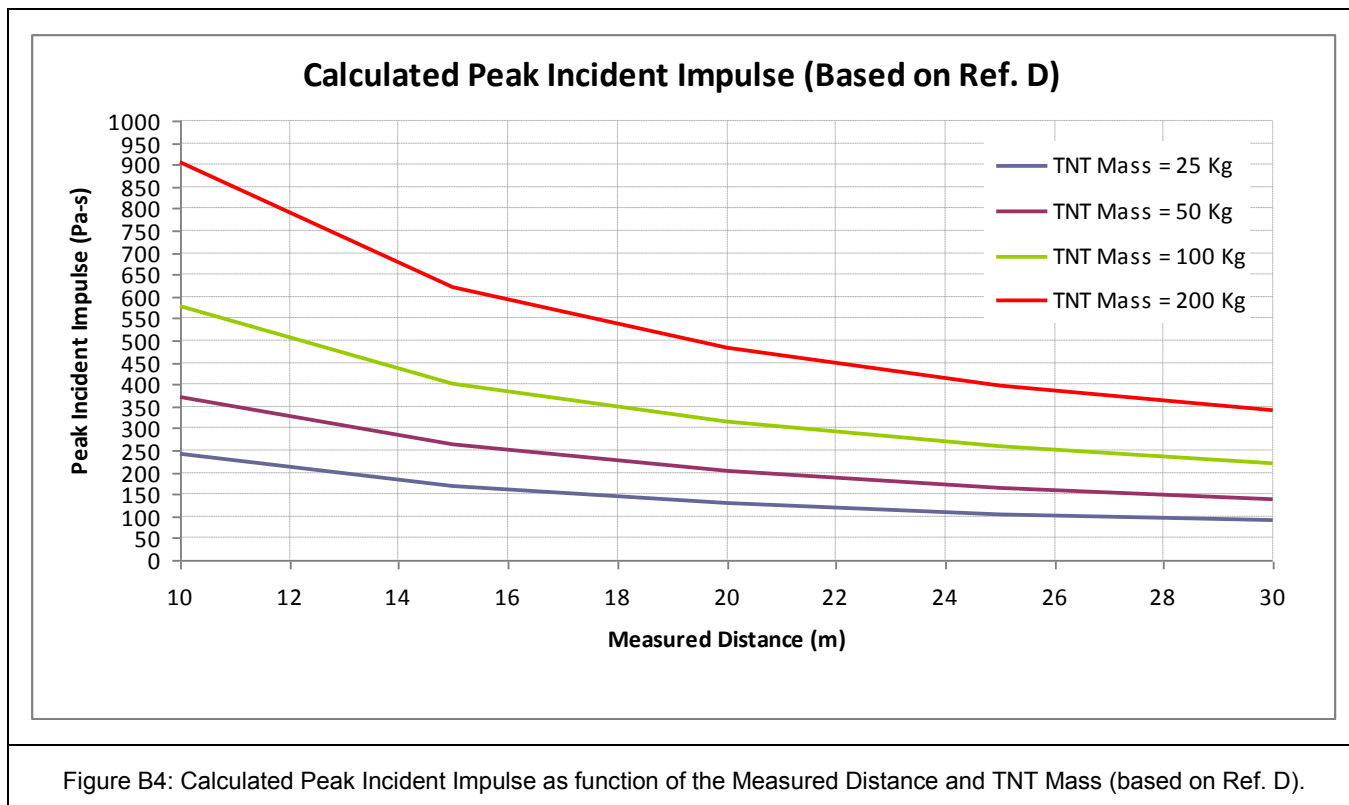
The blast loading of the charge shall be monitored during the test by measuring the far field incident overpressure. To be considered valid test conditions, the charge must produce a far field blast loading characterized by a peak incident (side on) pressure ( $P_{so}$ ) and a peak incident impulse ( $I_s$ ) (as shown in Figure B2). Each peak incident value shall be at least 85% of the calculated value from Ref. D to be an acceptable substitute for this type of explosive at the same measured distance and ground burst (refer to Figures B3 and B4). If any of the pressure and impulse measurements is lower than 85% of the corresponding calculated value, the explosive mass should be corrected based on the measured peak values and distance. This corrected mass will be used in the scoring activity.

SECRET (Unclassified less Annex D)





SECRET (Unclassified less Annex D)



## Procedures

General instrumentation procedures and instrumentation set-up shall be based on procedures described in the AEP-55 Vol 2 (Ref. C). The target vehicle shall (with the exception of the head accelerometers which are optional) be instrumented with:

:

- 1) A standard Hybrid III 50<sup>th</sup> percentile male ATD equipped with the following instrumentation:
  - a. Lower tibia load cell (Fz);
  - b. Pelvis accelerometer (Ax, Ay, Az);
  - c. Lumbar spine load cell (Fx, Fy, Fz);
  - d. Upper neck load cell (Fx, Fy, Fz, Mx, My, Mz);
  - e. Head accelerometers (Ax, Ay, Az) (optional);
  - f. Reflected pressure gauge at the chest (Pr).
- 2) Two far field incident pressure measurement devices placed at a certain distance from the charge center to characterize the blast loading.

B-4

SECRET (Unclassified less Annex D)

SECRET (Unclassified less Annex D)

- 3) Internal & external imagery (high speed recording) of the event.

To pass the test:

- 1) All the injury criteria's tolerance limits as specified in Annex E of AEP-55 Vol 2 shall be met.
- 2) There shall be no indication of hull rupture as defined in AEP-55 Vol 2.
- 3) There shall be no sign of injurious fragments or equipments projected inside the occupant's compartment.

## Reporting

The following documentation shall be provided to assess the blast protection system performance:

- 1) Description and date of the trial;
- 2) Detailed test plan and a vulnerability analysis supporting the selection of the charge location with respect to the vehicle and occupants.
- 3) Schematics and pictures of the test set-up, list and location of instrumentation and data acquisition parameters;
- 4) Vehicle data (type, mass, position of center of gravity, pictures of the outside & inside of the vehicle);
- 5) Charge data (type of explosive, mass, detonation heat, size, and pictures)
- 6) Atmospheric conditions at time of test:
  - a. Temperature;
  - b. Atmospheric pressure.
- 7) Paper and electronic copies of filtered and unfiltered instrumentation data.
- 8) High speed imagery data (video files);
- 9) Pictures of post detonation results;
- 10) Data analysis indicating compliance or not with performance requirement.

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Vehicle Performance Requirements  
Armour Protection System Requirements – Schedule BA-6-1

Attachment BA-6  
Appendix BA  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

SECRET (Unclassified less Annex D)

## **ANNEX C –**

LEFT BLANK INTENTIONALLY

SECRET (Unclassified less Annex D)

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Vehicle Performance Requirements  
Armour Protection System Requirements – Schedule BA-6-1

Attachment BA-6  
Appendix BA  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

SECRET (Unclassified less Annex D)

## **Annex D – Classified Reference Values**

PROVIDED SEPARATELY

SECRET (Unclassified less Annex D)

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-7 – CARGO VARIANT REQUIREMENTS

ID	SMP - Attachment BA-7 - Cargo Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-7-1	<b>1 Scope</b>	N/A	N/A	N/A	N/A	N/A
BA-7-8	This Attachment describes the performance and technical requirements specific to the Cargo Variant.  The Cargo Variant will have a cargo bed capable of carrying a 20' or a 10' ISO container and will have all provisions for troop transport, including troop seats and an overhead superstructure and tarp.	N/A	N/A	N/A	N/A	N/A
BA-7-70	<b>2 Cargo Variant Requirements - Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-7-71	<b>2.1 Standard Design</b>	N/A	N/A	N/A	N/A	N/A
BA-7-64	The cargo variant shall meet the requirements of the SMP Appendix BA, Vehicle Performance Requirements, unless otherwise specified in this Attachment.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-72	The cargo variant shall function with the Vehicle components as an integrated system.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-11	The cargo variant, and its integration, shall function through the full range of loads and torsional forces of vehicle components throughout the Vehicle mobility range and mission profile.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-77	<b>2.2 Cargo Variant</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-7 - Cargo Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-7-123	The Cargo Variant shall be configured with the following: a. cargo bed consisting of the following; i. tiedowns/ ISO locks; ii. front bulkhead; and iii. SEV access system. b. sideboards; c. troop seats; d. tailgate; e. superstructure and tarp; f. cargo bed access (rear).	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-111	<b>2.2.1 Cargo Bed</b>	N/A	N/A	N/A	N/A	N/A
BA-7-57	The cargo bed shall be sized to carry a standard 20' ISO container.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-65	The cargo bed shall incorporate a torsion-free or low torsion system to ensure that the ISO containers are not subjected to damage during transport.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-114	<b>2.2.1.1 Tiedowns/ISO Locks</b>	N/A	N/A	N/A	N/A	N/A
BA-7-22	The cargo variant shall be equipped with recessed tiedowns equally spaced along the sides, front and rear of the cargo bed along the perimeter IAW MIL-STD-209 (Revisions H, J, or K). No portion of the cargo bed shall fail when maximum rated load is placed on any opposing tiedowns.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-23	The tiedowns shall be accessible when the sideboards are in the raised position.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-58	The cargo bed shall be provided with six (6) retractable ISO locks, capable of having a 6.1m (20ft) ISO container (Class/Designation "1C" IAW ISO 668) installed or a 3.05m (10ft) ISO container (Class/Designation "1D" IAW ISO 668) installed at the front end of the cargo bed.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-59	The ISO locks shall be flush with the cargo bed surface when not in use and shall not infringe with other uses when the Vehicle is not transporting ISO containers.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A

ID	SMP - Attachment BA-7 - Cargo Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-7-24	<p>The cargo bed shall be provided with the necessary provisions to allow the installation and operation of the S280 and twelve foot General Purpose Shelters currently used on the Medium Logistic Vehicle Wheeled (MLVW) cargo variant IAW C-90-010-002/ME-000.</p> <p>For added clarity, each Shelter measures approx 3700mm L x 2200mm W x 2300mm H. Shelters are not equipped to accept ISO twist locks therefore a blocking system shall be provided to restrain the shelters from moving forward, rearward and sideways throughout the Vehicle mobility range and mission profile. The S280 and General Purpose Shelter installation includes a requirement that the fuel source from the vehicle fuel tank be fitted with a quick disconnect and an electrical connector. The tiedown points shall provide the same functionality as the current plate and eyebolt assembly as indicated on DND Drawing 8280008 and shall interface with the cable/turnbuckle system currently used on the shelters. For more information refer to Appendix BA- Attachment BA-7 Schedule BA-7-2 for turnbuckle interface requirements.</p>	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-113	<b>2.2.1.2 Front Bulkhead</b>	N/A	N/A	N/A	N/A	N/A
BA-7-20	A permanently installed bulkhead structure shall be installed at the front end of the cargo system, at a nominal height of 0.45 meters, as measured from the cargo bed floor.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-21	The bulkhead shall be capable of withstanding the longitudinal load forces exerted by a 1,134 kg pallet, unsecured and placed against the bulkhead, throughout the full range of all mobility requirements.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-183	<b>2.2.1.3 SEV Access System</b>	N/A	N/A	N/A	N/A	N/A



ID	SMP - Attachment BA-7 - Cargo Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-7-184	Mounting provisions for attaching existing SEV Access Stairs and SEV Ladder assembly shall be provided along each side of the cargo bed side rails from the location of the mid mounted ISO lock to the rear of the cargo deck. Interface requirements for the ladder and stairs are shown in Part 7, Annex B, Appendix BA, Attachment BA-7, Schedule 7-1.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-116	<b>2.2.1.4 Sideboards</b>	N/A	N/A	N/A	N/A	N/A
BA-7-30	Sideboards shall be configured so that they can be moved to a vertical down position. The sideboards shall not protrude above the cargo bed floor surface when in the vertical down position.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-187	The interface requirements for the ladder and stairs (refer to BA-7-184) shall be exposed to allow the mounting of the SEV Access Stairs and SEV Ladder Assembly when sideboards are set in the vertical down position.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-186	The sideboards shall incorporate non-metallic bumpers to prevent metal to metal contact, noise and abrasion when the sideboards are in the vertical up and vertical down positions.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-32	Sideboards shall be at a nominal height of 0.45 meters, as measured from the cargo bed floor.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-124	Sideboards shall be capable of withstanding the lateral load forces exerted by a 1,134 kg pallet, unsecured and placed against the sideboard, throughout the full range of all mobility requirements.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-31	The sideboards shall be capable of being removed by no more than two soldiers. If tools are required for the removal of sideboards, the tools shall be provided with the Vehicle and stowed with the Vehicle Tool Kit IAW Attachment BA-1.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-170	<b>2.2.1.5 Troop Seats</b>	N/A	N/A	N/A	N/A	N/A
BA-7-149	Inward facing troop seats shall be provided for personnel along each side of the cargo bed from front to rear. Backrests shall be provided.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A

ID	SMP - Attachment BA-7 - Cargo Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-7-150	The troop seats shall fold up when not in use, and shall deploy with a single action.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-151	An adjustable strap shall be provided for installation when personnel are transported in the rear cargo area. This strap will be used to help ensure that personnel being transported in the rear of the Vehicle do not fall out of the Vehicle during vehicle operations. Mounting provisions for the strap shall be provided at the rear of the cargo bed and shall span the width of the deck, at a minimum nominal height of 0.8 m from the floor of the cargo bed.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-177	Loading and unloading of the troop seats shall not affect the unlatching/latching and overall operation of the tailgate.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-171	<b>2.2.1.6 Tailgate</b>	N/A	N/A	N/A	N/A	N/A
BA-7-119	The cargo system shall be provided with a tailgate at the rear of the cargo bed. The tailgate shall be able to be set in three positions; vertical up, horizontal, and vertical down.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-176	The tailgate shall incorporate non-metallic bumpers to prevent metal to metal contact, noise and abrasion when the tailgate is in either the vertical up or vertical down position.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-135	The tailgate system with all of its sub-components including anchor points, when set in the horizontal position, shall withstand a vertical load equivalent to 3 personnel including their standard kit and equipment IAW Attachment BA-1, while performing loading and unloading activities using the tailgate. The tailgate shall be flush with the cargo bed floor surface when set in the horizontal position.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-121	The tailgate shall be at a nominal height of 0.45 meters, as measured from the cargo bed floor.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-129	The tailgate shall be capable of withstanding the longitudinal load forces exerted by a 1,134 kg pallet, unsecured and placed against the tailgate, throughout the full range of all mobility requirements.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A

ID	SMP - Attachment BA-7 - Cargo Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-7-179	The tailgate shall be capable of being removed by no more than two soldiers. If tools are required for removal of the tailgate, the tools shall be provided with the Vehicle and stowed with the Vehicle Tool Kit IAW Attachment BA-1.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-140	<b>2.2.2 Superstructure and Tarp</b>	N/A	N/A	N/A	N/A	N/A
BA-7-142	A superstructure and tarp assembly, of adequate height to allow a soldier with the characteristics of a 95th percentile male to stand and perform their duties, shall be provided over the rear cargo area to protect the cargo and personnel from the elements.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-146	The tarp and superstructure shall be capable of being removed with onboard tools. Special tools, if required, shall be provided with the Vehicle and stowed with the Vehicle Tool Kit IAW Attachment BA-1.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-166	<b>2.2.2.1 Superstructure</b>	N/A	N/A	N/A	N/A	N/A
BA-7-148	A mechanism configured similar to C-30-406-000/MX-000 (Plate G43 only) shall be provided, along the centerline of the roof superstructure, to allow a soldier with the characteristics of a 95th percentile male, wearing the ICE fighting order, to walk front to rear when carrying a load of up to 25 kg.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-174	There shall be no sharp edges or protrusions on the cargo system or superstructure that cause premature wear on the tarp when installed.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-169	<b>2.2.2.2 Tarp</b>	N/A	N/A	N/A	N/A	N/A
BA-7-145	The tarp assembly shall be Type III, IAW D-80-001-149/SF-001.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-7-160	The tarp shall fit the profile of the cargo system and superstructure and shall be secured to ensure it remains tight during vehicle operation throughout the mission profile.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A

ID	SMP - Attachment BA-7 - Cargo Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-7-115	<b>2.2.3 Cargo Bed Access (Rear)</b>	N/A	N/A	N/A	N/A	N/A
BA-7-27	The cargo bed shall be equipped with a mechanism, located at the rear of the Vehicle, to enable a user to gain access to the cargo bed from ground level when the Vehicle is parked.	CON	N/A	POC Include Design detail Drawings	Mandatory Requirement. No Points allotted.	N/A
BA-7-130	The mechanism shall provide simultaneous ingress and egress of soldiers from both sides of the cargo bed (i.e. the left and right side of the rear of the Vehicle).	CON	N/A	POC	Mandatory Requirement. No Points allotted.	N/A
BA-7-134	The mechanism shall be designed such that a soldier with the characteristics of a 5th percentile female, can position it for access to the cargo bed and return it to initial position/location.	CON	N/A	POC	Mandatory Requirement. No Points allotted.	N/A
BA-7-131	The mechanism shall not rely on contact with the ground for support, and the first step shall be no more than 400 mm above the ground.	CON	N/A	POC	Mandatory Requirement. No Points allotted.	N/A
BA-7-175	Hand holds shall be provided to facilitate ingress/egress.	CON	N/A	POC	Mandatory Requirement. No Points allotted.	N/A
BA-7-3	<b>3 Cargo Variant Requirements - Rated Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-7-91	<b>3.1 Sideboards and Tailgate</b>	N/A	N/A	N/A	N/A	N/A
BA-7-92	An onboard stowage area for sideboards, tailgate and related components should be provided and it shall not infringe upon the cargo bed area.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-7-93	<b>3.2 Tarp and Superstructure</b>	N/A	N/A	N/A	N/A	N/A
BA-7-45	The stowage area for the tarp, superstructure and its related components should not infringe upon the cargo bed area.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Vehicle Performance Requirements  
Cargo Variant Requirements

Attachment BA-7 to  
Appendix BA to  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

ID	SMP - Attachment BA-7 - Cargo Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-7-95	3.3 N/A	N/A	N/A	N/A	N/A	N/A

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)

W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B- STATEMENT OF WORK

APPENDIX BA- VEHICLE PERFORMANCE REQUIREMENTS

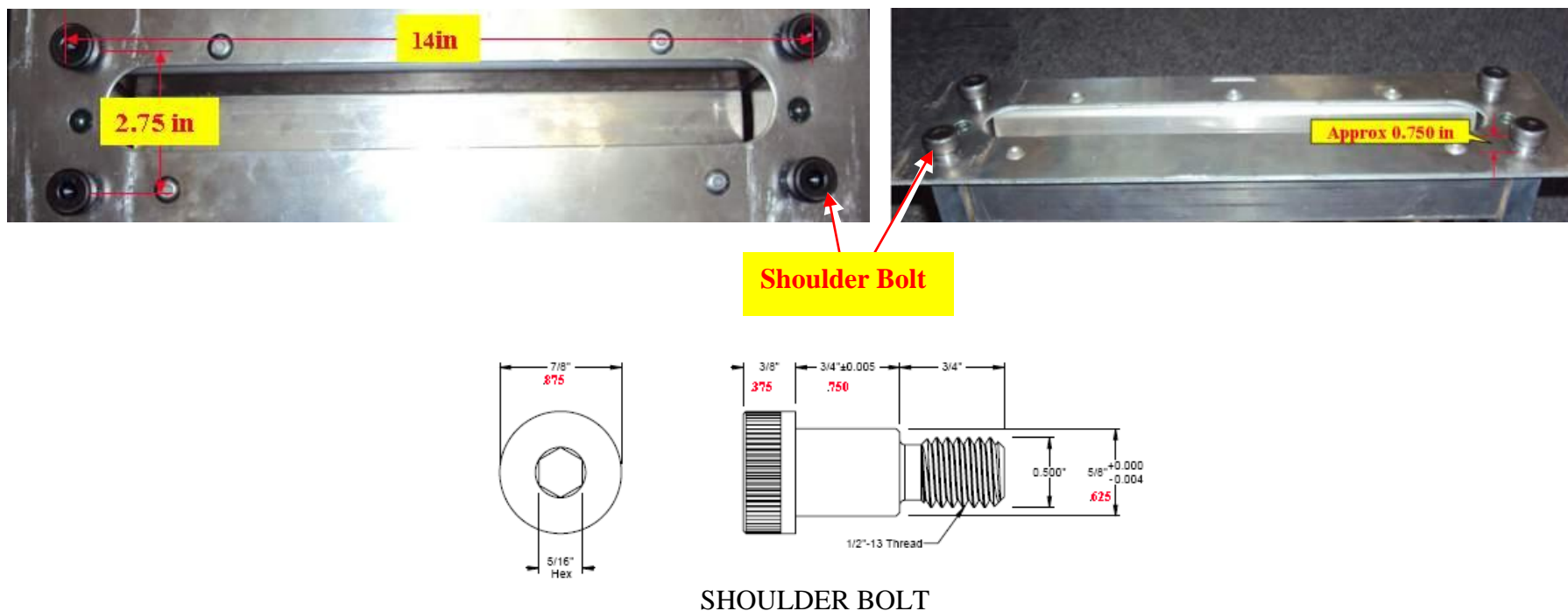
ATTACHMENT BA-7- CARGO VARIANT REQUIREMENTS

SCHEDULE BA-7-1- ACCESS LADDER AND STAIR INTERFACE REQUIREMENTS

## **LADDER INTERFACE REQUIREMENTS**

Interface for Access Ladder requires four keyholes

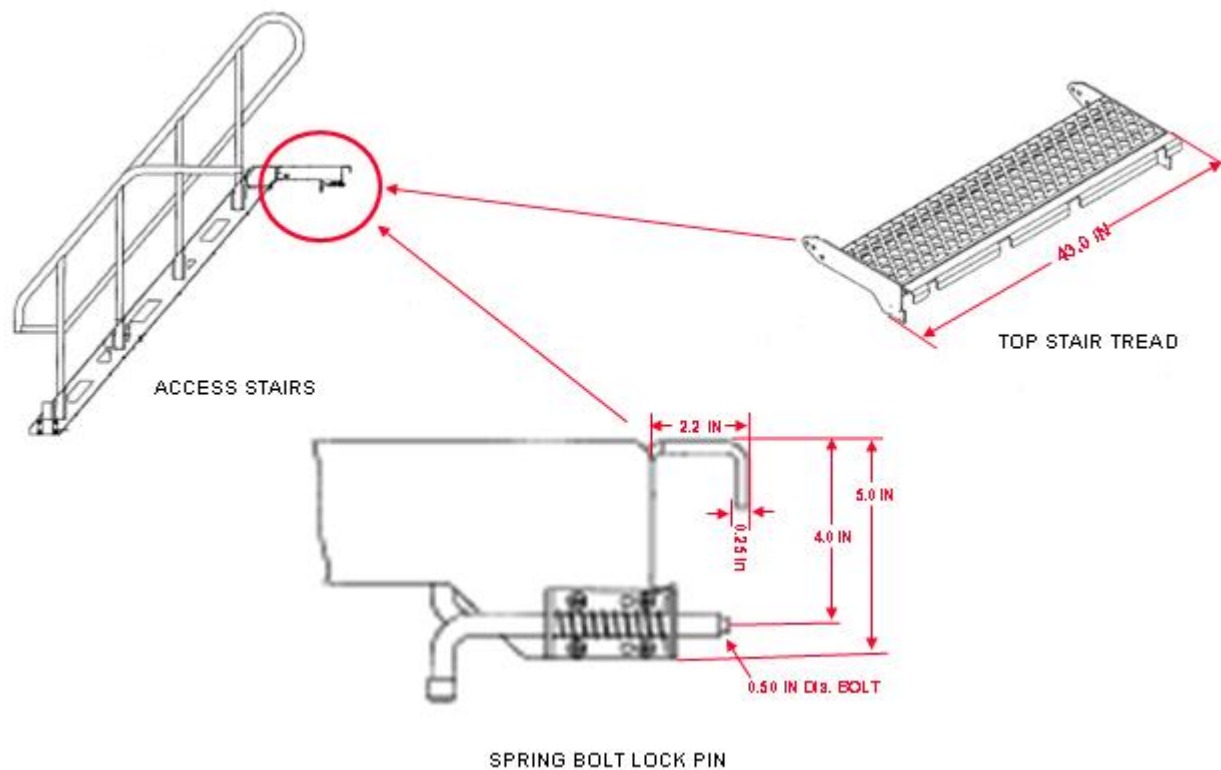
- 2 sets spaced horizontally at 14 inch centers and vertically at 2.75inch centers
- Key holes need to be sized to accommodate shoulder bolt illustrated



**Figure 1 LADDER INTERFACE**

## **STAIR INTERFACE REQUIREMENTS**

Access Stairs are designed to fit over a lipped edge. The mounting hook on the stairs designed to fit over the lipped edge and secured in place with a spring bolt lock.



**Figure 2 STAIR INTERFACE REQUIREMENTS**



**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)

W8476-06-MSMP/L

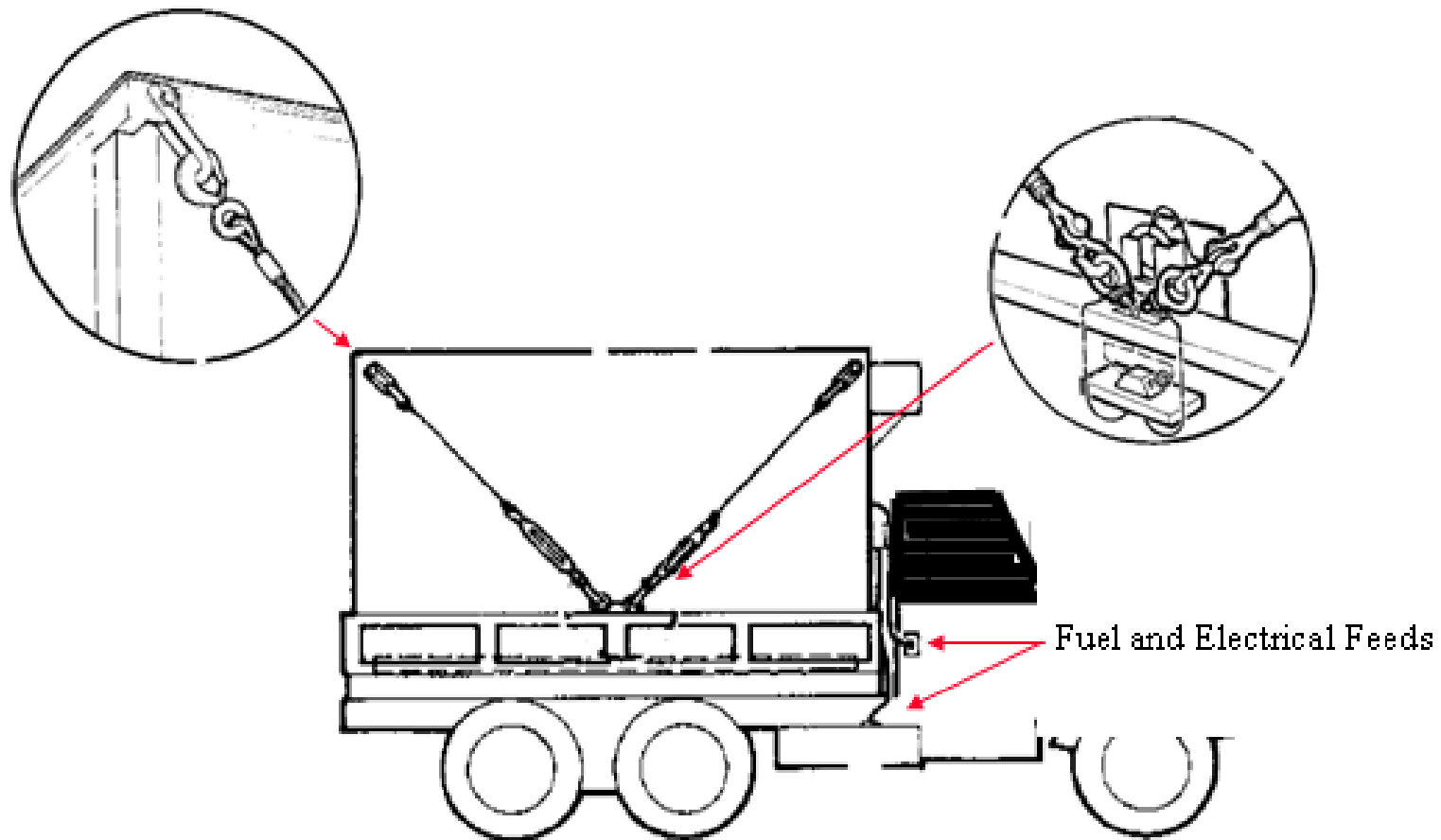
Part 7 - Resulting Contract - Acquisition

ANNEX B- STATEMENT OF WORK

APPENDIX BA- VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-7- CARGO VARIANT REQUIREMENTS

SCHEDULE BA-7-2- S280 / 12' GENERAL PURPOSE SHELTER INTERFACE REQUIREMENTS



**Figure 1 SHELTER TIEDOWN INTERFACE REQUIREMENTS**

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-8 – LOAD HANDLING SYSTEM VARIANT REQUIREMENTS

ID	SMP - Attachment BA-8 - Load Handling System Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-8-1	<b>1 Scope</b>	N/A	N/A	N/A	N/A	N/A
BA-8-3	This Attachment describes the performance and technical requirements specific to the Load Handling System (LHS) variant.	N/A	N/A	N/A	N/A	N/A
BA-8-79	<b>2 LHS Variant Requirements - Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-8-80	<b>2.1 Standard Design</b>	N/A	N/A	N/A	N/A	N/A
BA-8-57	The LHS variant shall meet the requirements of SMP Appendix BA, Vehicle Performance Requirements, unless otherwise specified in this Attachment.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-8	The LHS variant shall function with the Vehicle components as an integrated system.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-6	The LHS variant, and its integration, shall function through the full range of loads and torsional forces of vehicle components throughout the Vehicle mobility range and mission profile.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-81	<b>2.2 LHS Variant</b>	N/A	N/A	N/A	N/A	N/A
BA-8-101	The LHS variant shall be configured with the following: a. a load handling system for handling ISO Containers and Flatracks; b. interface equipment to provide the ability to handle ISO Containers; c. a system to secure ISO Containers and Flatracks during transport; and d. LHS controls inside the cab and on the exterior of the vehicle.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-8 - Load Handling System Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-8-97	<b>2.2.1 Load Handling System (LHS)</b>	N/A	N/A	N/A	N/A	N/A
BA-8-11	The LHS variant shall be able to self-load, self-offload, and transport a 20' ISO container weighing up to the maximum payload of the Vehicle. The container will be designated Type 1C, IAW ISO 668.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-12	The LHS variant shall be able to self-load, self-offload, and transport a Flatrack, weighing up to the maximum payload of the Vehicle. The Flatrack will be designed IAW STANAG 2413.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-48	The LHS variant shall be able to transfer a 20' ISO container weighted up to the maximum payload of the Vehicle to and from the Trailer detailed at Attachment BA-11. The container will be designated Type 1C, IAW ISO 668.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-100	The LHS variant shall be able to transfer a Flatrack weighted up to the maximum payload of the Vehicle to and from the Trailer detailed at Attachment BA-11. The Flatrack will be designed IAW STANAG 2413.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-52	The LHS shall automatically guide and center a 20' ISO container or Flatrack on the Vehicle during the loading operation.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-94	The LHS shall be capable of loading, off loading and cross loading fully payloaded ISO containers and Flatracks under the following conditions: a. on uneven ground having a side slope / logitudinal slope of +/- 5 degrees; and b. from an approach angle of +/- 5 degrees from the vertical and / or the horizontal.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-31	Interface equipment required for loading/off-loading ISO containers shall be stowed on the Vehicle and shall not interfere with the unloading/loading of Flatracks.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-47	Stowage of the interface equipment shall not take longer than 15 minutes by one person.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-8 - Load Handling System Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-8-99	<b>2.2.1.1 ISO Locks</b>	N/A	N/A	N/A	N/A	N/A
BA-8-85	The LHS variant shall be provided with ISO twistlocks to secure a 20' ISO container (designation 1C, IAW ISO 668) and shall have provisions to ensure that the Flatrack remains secured to the Vehicle under all operating conditions.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-86	<b>2.2.1.2 LHS Controls</b>	N/A	N/A	N/A	N/A	N/A
BA-8-63	The LHS shall have controls located both inside and outside of the cab.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-74	The LHS variant shall be configured such that the operator, while seated in the driver's station and while operating the controls outside the vehicle, can operate the controls for pickup and release of a Flatrack and ISO container.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-90	The LHS controls located outside shall be waterproof.  Controls located above the fording depth shall be tested IAW MIL-STD 810 Method 506.4 procedure II. There shall be no evidence of water ingress into the controls, hydraulic system or degradation of performance due to exposure to rainfall.  Controls located below the fording depth shall be tested IAW MIL-STD 810 Method 512.4 procedure II. There shall be no evidence of water ingress into the controls, hydraulic system or degradation of performance due to immersion in water.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-87	<b>2.2.1.3 Safety Features</b>	N/A	N/A	N/A	N/A	N/A
BA-8-64	A single operator shall be able to safely perform all LHS operations.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-8 - Load Handling System Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-8-21	The LHS shall incorporate an overload safety / protection mechanism to provide warning to the operator in order to prevent damage to the equipment when a load exceeds the maximum capacity of the system.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-8-92	<b>3 LHS Variant Requirements - Rated Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-8-93	<b>3.1 Safety Features</b>	N/A	N/A	N/A	N/A	N/A
BA-8-23	The LHS should be equipped with a mechanism that allows an operator to manually lower a loaded Flatrack/ISO container to the ground if there is a system failure (electrical, hydraulic, or both).	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

ACQUISITION MODEL CONTRACT

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-9 - CARGO WITH CRANE VARIANT REQUIREMENTS



ID	SMP - Attachment BA-9 - Cargo with Crane Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-9-1	<b>1 Scope</b>	N/A	N/A	N/A	N/A	N/A
BA-9-2	This Attachment describes the performance and technical requirements of the Cargo with Crane Variant.  The Cargo with Crane Variant will have a cargo bed of the same configuration as the Cargo Variant, a rear bulkhead in lieu of the tailgate, a winch and a rear mounted crane. There is no superstructure, tarp or troop seats on the Cargo with Crane Variant.	N/A	N/A	N/A	N/A	N/A
BA-9-111	<b>2 Cargo with Crane Variant Requirements - Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-9-185	<b>2.1 Standard Design</b>	N/A	N/A	N/A	N/A	N/A
BA-9-110	The cargo with crane variant shall meet all the requirements of Appendix BA Attachment BA-7 Cargo Variant Requirements, unless otherwise specified in this Attachment.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-112	The cargo with crane variant shall function with the Vehicle components as an integrated system.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-113	The cargo with crane variant, and its integration, shall withstand the full range of loads and torsional forces of vehicle components throughout the Vehicle mobility range and mission profile.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-260	The Vehicle frame shall be capable of withstanding the forces exerted by the crane without deformation or damage for the life of the Vehicle.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-9 - Cargo with Crane Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-9-221	<b>2.2 Cargo with Crane Variant</b>	N/A	N/A	N/A	N/A	N/A
BA-9-222	The Cargo with Crane Variant shall be configured with the following: a. cargo bed consisting of the following; i. tiedowns/ ISO locks / SEV access system (same as Cargo Variant); ii. front bulkhead (same as Cargo Variant); iii. rear bulkhead; and iv. auxiliary tiedowns. b. sideboards (same as Cargo Variant) w/cargo bed access (sides); c. material handling crane; and d. winch IAW Attachment BA-10.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-232	<b>2.2.1 Cargo Bed</b>	N/A	N/A	N/A	N/A	N/A
BA-9-298	<b>2.2.1.1 Rear Bulkhead</b>	N/A	N/A	N/A	N/A	N/A
BA-9-299	A bulkhead structure shall be installed at the rear end of the cargo system, at a nominal height of 0.45 meters, as measured from the cargo bed floor. The rear bulkhead structure shall be firmly fastened to the cargo bed but shall be removable to gain clear access to the rear mounted crane as required. The installation of the rear bulkhead shall not affect access to or usability of the ISO locks at the rear of the cargo bed.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-300	The bulkhead shall be capable of withstanding the longitudinal load forces exerted by a 1,134 kg pallet, unsecured and placed against the bulkhead, throughout the full range of all mobility requirements.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-301	<b>2.2.1.2 Side Boards</b>	N/A	N/A	N/A	N/A	N/A
BA-9-302	The sideboards shall be the same as those provided with the Cargo Variant and shall meet the same requirements when interfacing with the rear bulkhead installed in place of the tailgate.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-9 - Cargo with Crane Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-9-243	<b>2.2.1.2.1 Cargo Bed Access (Sides)</b>	N/A	N/A	N/A	N/A	N/A
BA-9-297	The cargo bed shall be equipped with a mechanism, located on each side of the Vehicle, to enable a user to gain access to the cargo bed from ground level when the Vehicle is parked.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-306	The mechanism shall provide simultaneous ingress and egress of soldiers from both sides of the cargo bed at the location of each rear sideboard adjacent to the rear bulkhead.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-307	The mechanism shall be designed such that a soldier with the characteristics of a 5th percentile female can position it for access to the cargo bed and return it to initial position/location.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-305	The mechanism shall not rely on contact with the ground for support, and the first step shall be no more than 400 mm above the ground.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-308	Hand holds shall be provided to facilitate ingress/egress.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-303	<b>2.2.1.3 Auxiliary Tiedowns</b>	N/A	N/A	N/A	N/A	N/A
BA-9-304	Two (2) additional rows of tiedowns, running front to rear, shall be provided on the rear half of the cargo bed in the area behind which the 10' ISO Container is mounted. The front to rear spacing of the tiedowns shall be the same as those along the perimeter of the cargo bed. These two rows of tiedowns shall be located to create an equal spacing between the four rows in the side to side direction.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-292	<b>2.2.2 Material Handling Crane</b>	N/A	N/A	N/A	N/A	N/A
BA-9-148	The crane shall comply with ASME B30.22-2010.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-82	The crane system shall be mounted on the rear of the Vehicle to allow for loading/unloading of items from the Vehicle and the Trailer.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-310	The material handling crane shall not infringe upon the area defined as the cargo bed.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-9 - Cargo with Crane Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-9-191	<b>2.2.2.1 Crane Performance</b>	N/A	N/A	N/A	N/A	N/A
BA-9-180	The crane shall have lift capability along the vertical axis with one single function controller (i.e. joystick, lever or button) once the crane is positioned over the load. This capability will be defined as "true vertical lift".	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-205	The operator shall be able to modulate the traverse, elevation and winch (if applicable) speeds to suit lifting and maintenance operations.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-181	The crane shall have a traverse range greater than 360° with the overlap stop located towards the roadside. The crane reach and lift requirements, as listed below, shall be met within the full traverse range of the crane, as measured from the crane starting position.	CON	N/A	POC - provide crane spec sheet including lift envelope	Mandatory Requirement. No points allotted.	
BA-9-216	The crane shall be capable of lifting a 3000 kg load to a height of 5.5 m from the ground level at a reach of 2.5 m from the rear edges of the Vehicle.	CON	N/A	POC - provide crane spec sheet including lift envelope	Mandatory Requirement. No points allotted.	
BA-9-286	The crane shall be capable of lifting a 2500 kg load (vehicle power pack) off the rear of the cargo deck utilizing a true vertical lift function when the longitudinal center-line of the power pack (perpendicular to that of the vehicle longitudinal center-line) is located 0.875 m forward of the rear bulkhead.	CON	N/A	POC - provide crane spec sheet including lift envelope	Mandatory Requirement. No points allotted.	
BA-9-253	The crane shall be capable of lifting a 2500 kg load to a height of 4.5 m from the ground level at a reach of 3.5 m from the rear edges of the Vehicle.	CON	N/A	POC - provide crane spec sheet including lift envelope	Mandatory Requirement. No points allotted.	
BA-9-254	The crane shall be capable of lifting a 540 kg load to a height of 5.5 m from the ground level at a reach of 4.0 m from the rear edges of the Vehicle.	CON	N/A	POC - provide crane spec sheet including lift envelope	Mandatory Requirement. No points allotted.	

ID	SMP - Attachment BA-9 - Cargo with Crane Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-9-215	The crane shall have a lift capacity of no less than 1600 kg at a horizontal reach of 5.5 m.	CON	N/A	POC - provide crane spec sheet including lift envelope	Mandatory Requirement. No points allotted.	
BA-9-265	The crane shall be able to lift a 1,900 kg pallet from all locations on the cargo bed.	CON	N/A	POC - provide crane spec sheet including lift envelope	Mandatory Requirement. No points allotted.	
BA-9-200	<b>2.2.2.2 Crane Controls</b>	N/A	N/A	N/A	N/A	N/A
BA-9-46	The crane shall be provided with manual controls at the rear of the Vehicle, accessible from either the roadside, curbside or both sides.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-182	The crane shall be provided with a remote control, either wired or wireless. If a wired remote is provided, the minimum length of wire shall be 15 m. If a wireless remote control is provided the minimum range shall be 15 m.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-183	Controls shall return to the neutral position when released.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-49	A secured stowage location shall be provided for the remote control and its associated components.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-161	The outside crane system controls shall be waterproof.  Controls located above the fording depth shall be tested IAW MIL-STD 810 Method 506.4 procedure II. There shall be no evidence of water ingress into the controls, hydraulic system or degradation of performance due to exposure to rainfall.  Controls located below the fording depth shall be tested IAW MIL-STD 810 Method 512.4 procedure II. There shall be no evidence of water ingress into the controls, hydraulic system or degradation of performance due to immersion in water.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-9 - Cargo with Crane Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-9-256	<b>2.2.2.3 Overload and Emergency Protection</b>	N/A	N/A	N/A	N/A	N/A
BA-9-11	The crane shall have an audible safe limit warning IAW SAE J159 and a stop lift mechanism.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-14	In the event of system power failure, the crane shall sustain the load without degradation and shall allow controlled lowering of the load.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-15	In the event of system power failure, the crane shall allow controlled stowage of the crane system, including the crane stabilizers.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-202	<b>2.2.2.4 Vehicle Stabilization</b>	N/A	N/A	N/A	N/A	N/A
BA-9-77	The cargo with crane variant shall be equipped with a method of stabilizing the Vehicle before and during lifting operations.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-78	The outriggers / stabilizers shall be fully retractable within the envelope of the Vehicle and shall be protected from damage during cross-country operation.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-79	The system shall include load spreaders that fit on the bottom of the outriggers / stabilizers during lifting operations and are detachable and stowable on the Vehicle when not in use.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-153	The crane system when mounted to the vehicle shall be stable for all required design loads IAW SAE J765.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-80	The leveller / stabilizer legs shall be controlled hydraulically and independently to level the vehicle on slopes up to 7% while maintaining stability IAW BA-9-153.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-203	<b>2.2.2.5 Hydraulic System</b>	N/A	N/A	N/A	N/A	N/A
BA-9-151	All hydraulic fluid containers and hoses shall not infringe upon the cargo bed area.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-159	Exposed hydraulic lines, controls and wiring shall be protected from damage during operation.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-9-204	<b>2.2.2.6 Stowage</b>	N/A	N/A	N/A	N/A	N/A
BA-9-84	The crane shall have a stowage locking mechanism to prevent damage to the crane during off road operations.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-9 - Cargo with Crane Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-9-3	<b>3 Cargo with Crane Variant Requirements - Rated Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-9-279	<b>3.1 Sideboards</b>	N/A	N/A	N/A	N/A	N/A
BA-9-280	An onboard stowage area for the sideboards should be provided and it shall not infringe upon the cargo bed area.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-9-209	<b>3.2 Performance</b>	N/A	N/A	N/A	N/A	N/A
BA-9-5	The crane should be capable of lifting a 3700 kg load to a height of 6.0 m from the ground level at a reach of 3.5 m from the rear edges of the Vehicle.	CON	N/A	POC	Points (%) will be allotted as defined below. Total Points = Weight Points x 0.6 + (Height Points + Reach Points score) x 0.2 Let W = Weight (kg) If W < 3000 kg, then weight allotted points = 0% If W > 3700 kg; then weight allotted points = 100% Otherwise the weight allotted points will be calculated as follows: Weight points = $-3000/12 + (1/12) \times W$ Let Y = Height (m) If y < 5.5 m; then height allotted points = 0% If Y > 6 m; then height allotted points = 100%	

ID	SMP - Attachment BA-9 - Cargo with Crane Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
					<p>Otherwise the height allotted points will be calculated as follows:  Height points = <math>-1100 + 200 \times Y</math>  Let Z = Reach (m)  If Z &lt; 2.5 m; then allotted points = 0%  If Z &gt; 3.5 m; then allotted points then 100%  Otherwise the reach allotted points will be calculated as follows:  Reach points = <math>-250 + 100 \times Z</math></p> <p>combined score: (weight score) *60% + (height score + reach score)*20%</p>	
BA-9-214	The crane should have a lift capacity of no less than 1600 kg at a horizontal reach of 6.0 m.	CON	N/A	POC	<p>Full points will be allotted if it is demonstrated that the requirement is fully met.  No points will be allotted if requirement is not fully met.</p>	
BA-9-264	The crane should have a traverse range equal to or greater than 400°.	CON	N/A	POC	<p>Full points will be allotted if it is demonstrated that the requirement is fully met.  No points will be allotted if requirement is not fully met.</p>	



## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-10 - WINCH REQUIREMENTS

ID	SMP - Attachment BA-10 - Winch Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-10-1	<b>1 Scope</b>	N/A	N/A	N/A	N/A	N/A
BA-10-2	This Attachment describes the performance and technical requirements specific to the self-recovery winch, referred to as the "winch" throughout this document.	N/A	N/A	N/A	Information Only	N/A
BA-10-3	<b>2 Winch Baseline Requirements - Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-10-49	<b>2.1 Standard Design</b>	N/A	N/A	N/A	N/A	N/A
BA-10-53	The winch shall function with the Vehicle components as an integrated system.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-54	The winch, and its integration, shall withstand the full range of loads and torsional forces of vehicle components throughout the Vehicle mobility range and mission profile.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-4	The winch shall be hydraulically operated and be designed and rated IAW SAE J706.	CON	N/A	POC - provide spec sheet	Mandatory Requirement. No points allotted.	
BA-10-72	The winch shall be provided with a fairlead system to protect the cable and prevent it from side loading or rolling off the winch drum under load.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-14	<b>2.2 Rated Line Pull</b>	N/A	N/A	N/A	N/A	N/A
BA-10-15	The winch shall have a line pull of not less than 30% of the cargo with crane, gun tractor, and MRT variants GVW, with a minimum of one complete layer of cable remaining on the drum.	CON	N/A	POC - provide spec sheet and calculations	Mandatory Requirement. No points allotted.	
BA-10-18	<b>2.3 Line Speed</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-10 - Winch Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-10-19	The line speed of the winch, without any load, shall be not less than 5 m per minute.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-20	<b>2.4 Free Spooling</b>	N/A	N/A	N/A	N/A	N/A
BA-10-21	The winch shall have a manually operated free spool function controllable from the winch assembly.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-38	<b>2.5 Winch Cable</b>	N/A	N/A	N/A	N/A	N/A
BA-10-17	The winch shall have a nominal cable length of 50m.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-39	The winch shall have the capability of deploying the cable from either the front or rear of the gun tractor, cargo with crane and MRT variants.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-22	<b>2.6 Winch Controls</b>	N/A	N/A	N/A	N/A	N/A
BA-10-56	The winch shall be provided with manual control. The winch and cable shall be controlled from within the cab at the driver's position.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-46	The winch shall be provided with a remote control. The remote control will have a minimum working range of 20 meters and may be either wired or wireless.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-60	A secured stowage location shall be provided for the remote control device and its associated components.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-58	The winch controls shall return to the neutral position when released.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-10 - Winch Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-10-51	<p>The winch and its controls shall be weatherproof.</p> <p>Winch and controls located above the fording depth shall be tested IAW MIL-STD 810 Method 506.4 procedure II. Any evidence of water ingress that causes degradation of performance due to exposure to rainfall will be cause for rejection.</p> <p>Winch and controls located below the fording depth shall be tested IAW MIL-STD 810 Method 512.4 procedure II. Any evidence of water ingress into the winch, winch controls, hydraulic system or degradation of performance due to water ingress will be cause for rejection.</p>	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-10-26	<b>2.7 Overload Protection</b>	N/A	N/A	N/A	N/A	N/A
BA-10-27	The winch shall have a safety limiting mechanism for overload protection to prevent damage to the winch or winch cable if a pull exceeds the maximum load limit.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-10 - Winch Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-10-28	<b>3 Winch Requirements - Rated Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-10-44	<b>3.1 Standard Design</b>	N/A	N/A	N/A	N/A	N/A
BA-10-45	The winch should have the capability of deploying the cable from both the front and rear of the crane variant, gun tractor variant and MRT variant.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-10-73	The winch installation should not decrease the angles of approach and departure, and the ground clearance of the crane variant, gun tractor variant and MRT variant.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-10-36	<b>3.2 Winch Cable</b>	N/A	N/A	N/A	N/A	N/A
BA-10-37	The winch should be provided with synthetic fibre rope.	CON	N/A	POC	Full points will be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-11 – LOAD HANDLING SYSTEM TRAILER REQUIREMENTS

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-1	<b>1 Scope</b>	N/A	N/A	N/A	N/A	N/A
BA-11-2	This Attachment describes the performance and technical requirements specific to the Load Handling System (LHS) tandem axle trailer.	N/A	N/A	POC – Indicate the make and model of the trailer and provide a spec sheet.  NOTE: The Bidder must provide the information requested above, but a proof is not required.	Mandatory Requirement. No points allotted.	N/A
BA-11-5	<b>2 Trailer Requirements-Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-11-6	<b>2.1 Standard Design</b>	N/A	N/A	N/A	N/A	N/A
BA-11-86	The Trailer shall be capable of sustained and effective combat support operations worldwide, at Gross Trailer Weight (GTW), including all attachments and equipment, while maintaining the necessary stability, structural integrity and operational capability to operate safely. The projected service life shall be for a minimum of 20 years based on an expected annual usage of 5000 km.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-90	The Trailer shall be configured to allow the full range of 5th percentile female characteristics through 95th percentile male characteristics, wearing the Integrated Clothing Ensemble (ICE) fighting order, including winter clothing, to carry out all functions and duties related to operating, maintaining or servicing the Trailer including all attachments and equipment. The range of all dimensional characteristics shall be IAW DCIEM Report 98-CR-15 for CF personnel.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-89	The Trailer shall conform to applicable country of origin laws, regulations and industry standards governing manufacture and safety unless otherwise specified.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-161	The Trailer shall have engineering certifications or engineering affidavits available for these general military vehicle trailer applications from the original manufacturers of major components, and major equipment systems and assemblies.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-162	The Trailer shall not have systems and component capacities increased above published ratings, as defined in product or sub-component documentation, unless approved by the Original Equipment Manufacturer (OEM).	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-163	The Trailer shall include all attachments and equipment typically supplied for this general military vehicle trailer application, although they may not be specifically described in this specification.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-69	The Trailer and its integration shall function through the full range of loads and torsional forces throughout the mobility range and Mission Profile.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A



ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-68	The Trailer shall function with the LHS variant as an integrated system.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-71	The Trailer shall be equipped with a system to accept the transfer of ISO containers or flat racks, by a single operator, to and from the LHS variant.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-150	The Trailer shall be capable of being loaded, off loaded and cross loaded with fully payloaded ISO containers or flat racks under the following conditions: a. on uneven ground having a side slope / longitudinal slope of +/- 5 degrees; and b. from an approach angle of +/- 5 degrees from the vertical and / or the horizontal.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-7	The Trailer shall be provided with ISO twistlocks capable of holding and securing a 20 foot ISO container (designation 1C, IAW ISO 668) and shall have provisions to ensure that the flatrack remains secured to the Trailer under all operating conditions.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-93	<b>2.2 Operating Conditions</b>	N/A	N/A	N/A	N/A	N/A
BA-11-94	The Trailer shall operate safely and efficiently in climatic conditions A1 through C2 inclusive, as detailed in AECTP 230, Edition 1.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-12	<b>2.3 Trailer Payload</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-15	The Trailer loaded to GTW shall carry a minimum payload of 8,000kg.	CON	N/A	POC - Provide a Trailer Specification Sheet The following details (defined in Appendix BH to Annex B Part 7) must be included; - Gross Trailer Weight Rating - Trailer Tongue Weight - [A] Curb Weight - [B] Payload - [C] Gross Trailer Weight = [A+B] - Gross Axle Weight Rating - 1st - Gross Axle Weight Rating - 2nd - Tandem Axle load at GTW	Mandatory Requirement. No points allotted.	

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-206	The Trailer loaded to GTW shall accommodate a payload centre of gravity (C of G) everywhere within the C of G envelope identified at Schedule BA-11-1 (using a 20 ft ISO container as the payload):	CON	N/A	POC, provide all axle and wheel loads at GTW for the following payload scenarios:  a. C of G located at "A"  b. C of G located at "B"  Additionally, provide a graph that shows the payload C of G weight distribution curve. Figure 2 Schedule BA-11-1 Sample Weight Distribution diagram is provided as an example.	Mandatory Requirement. No points allotted.	
BA-11-149	The tongue weight load shall be between 5% and 15% of the GTW for all payload C of G locations within the C of G envelope identified in Schedule BA-11-1.	CON	N/A	POC - provide calculations with diagram for the following scenarios:  a. C of G located at "A"  b. C of G located at "B"	Mandatory Requirement. No points allotted.	
BA-11-16	<b>2.4 Mobility</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-95	The Trailer, while operating at highway speeds and with tires at highway pressure, loaded with a 20 foot ISO container (designation 1C, IAW ISO 668), shall meet the following criteria:  a. An unladen maximum height of 4.15 m; b. A maximum width of 2.6 m; and c. A maximum Trailer length of 12.5 m (including tongue).	CON	N/A	POC - provide a drawing the trailer with relevant dimensions.	Mandatory Requirement. No points allotted.	
BA-11-20	The angle of departure for the Trailer shall not be less than 18 degrees with rear impact guard retracted. (Angle is measured IAW SAE J1100 dimension A106-2). This will be measured with the Trailer at GTW and tire pressure adjusted to the recommended inflation pressure.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-96	The Trailer shall be capable of operating safely at GTW over all terrains, on-road and off-road, as defined by the Mission Profile.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-97	The Trailer shall ford a water obstacle to a depth of 750 mm without preparation IAW STANAG 2805.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-98	The Trailer shall be capable of being pulled through light vegetation and of being backed into wood lines of light vegetation without damaging any exterior components. Light vegetation is defined as small trees/brush with a stem diameter less than or equal to 25 mm in diameter at 1.5 meter height.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-21	<b>2.5 Transportability</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-99	The Trailer shall be transportable worldwide by rail IAW MIL-STD-1366.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-135	The Trailer shall withstand the shocks encountered during rail transport operations without causing damage to the Trailer. Rail transport suitability shall be assessed using MIL-STD-810, Method 516.5, Procedure VII.	CON (TEST)	N/A	POC - provide a test report	Mandatory Requirement. No points allotted.	
BA-11-23	The Trailer shall meet the Interface Standards for Lifting and Tiedown Provisions IAW MIL-STD-209 (Revisions H, J, or K). The Trailer shall be equipped with permanent, integrally attached tie downs so that the Trailer, with full payload, may be tied down for transport.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-24	<b>2.6 Performance</b>	N/A	N/A	N/A	N/A	N/A
BA-11-102	The Trailer shall meet all performance and technical requirements while loaded at GTW unless otherwise specified.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-103	The Trailer shall be capable of sustained operation on hard surfaced roads at a cruising speed of 90 km/h.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-104	The Trailer, when towed by the LHS variant, shall be able to ascend and descend, with intermediate stops, a hard surfaced 20% slope (dry and free of loose materiel) in a controlled manner, in both the forward and reverse direction, without malfunction.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-152	The Trailer shall be capable of being backed into a designated position, in a single pass, while in standard truck-trailer configuration with the LHS variant.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-25	The Trailer shall follow in the same track behind the Vehicle in a standard truck-trailer configuration.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-201	The Trailer shall, while being towed, operate on and traverse, at all loading conditions up to and including GTW, with intermediate stops, a hard surfaced 30% side slope (dry and free of loose material) in a controlled manner, in a forward direction, with the driver side facing up and down the slope, without malfunction.	CON	TEST	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-30	<b>2.7 Brakes</b>	N/A	N/A	N/A	N/A	N/A
BA-11-31	The Trailer shall be provided with full air actuated service brakes IAW CMVSS 121 or applicable country of origin laws, regulations and industry standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-73	The Trailer shall be provided with an Anti-lock Braking System (ABS) that monitors and prevents wheel lock-up at each wheel station.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-179	The Trailer ABS shall receive/ transmit data with the Vehicle ABS.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-178	The Trailer shall comply with STANAG 4478.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-34	The front of the Trailer shall be equipped with air hoses, connectors and couplings configured as illustrated in Schedule BA-11-2 per STANAG 2604. as follows: - Position of connectors; per Para 4, Table 1, and figure 1. - Nomenclature to be used for Gladhands and brake lines is: Service and Emergency - Identification of connectors; Colour markings will be: - Service Gladhands Braking Lines = Blue - Emergency Gladhands Braking Lines = Red	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-85	The Trailer shall be equipped with parking brakes which shall control and hold the fully laden Trailer motionless facing in either direction on a hard surfaced 20% slope IAW SAE J1452.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-74	The Trailer shall be provided with a parking brake capable of holding the Trailer motionless facing in either direction on a hard surfaced 20% slope (dry and free of loose materiel) at GTW.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-203	The air brake system shall be provided with a method of expelling moisture from all air reservoirs.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-35	<b>2.8 Wheels and Tires</b>	N/A	N/A	N/A	N/A	N/A
BA-11-106	The Trailer shall be provided with non-directional, all-terrain, tubeless, radial tires with a self-cleaning open tread, designed specifically for military vehicles.	CON	N/A	POC - Provide spec sheet, including the make and model number.	Mandatory Requirement. No points allotted.	N/A
BA-11-36	The Trailer shall be equipped with one full size spare tire and wheel assembly.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-107	All wheel assemblies, including the spare, shall be bolt-together divided wheels.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-108	All Trailer wheel assemblies, including the spare, shall be interchangeable.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-157	The wheel assemblies shall be fitted with beadlocks, and fitted for but not equipped with runflat inserts as detailed in Attachment BA-6.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-109	The Trailer shall be equipped with single wheel assemblies.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-110	The Trailer shall be provided with a spare wheel carrier assembly suitable for stowage and deployment of the spare wheel assembly. The carrier shall be able to support a spare wheel assembly fitted with runflats and beadlocks.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-111	The spare wheel assembly shall not be placed in or interfere with the Trailer payload system and the spare wheel shall be removable and replaceable while the Trailer is loaded with an ISO container.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-112	Changing a wheel assembly on the Trailer, including the removal and remounting of the spare wheel assembly in the carrier, shall be accomplished by no more than two (2) soldiers, within thirty (30) minutes using only onboard tools, under all operating conditions.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-37	Any tools required for operator maintenance, including changing the tires, shall be provided and securely stowed on the Trailer.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-159	<b>2.9 Wheel Splash and Stone Throw Protection</b>	N/A	N/A	N/A	N/A	N/A
BA-11-160	The Trailer shall be provided with wheel splash and stone throw protection above all wheels, and mud flaps behind the rear wheels.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-38	<b>2.10 Electrical System</b>	N/A	N/A	N/A	N/A	N/A
BA-11-39	The Trailer shall be equipped with a 24 VDC Standard Military Pattern (SMP) lighting system that is compliant with the Vehicle IAW STANAG 2601.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-40	All lights, reflectors and related components shall be recessed or fully protected from potential damage and be accessible for servicing.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-168	The Trailer shall be fitted for, but not with, an anti-static strap IAW NSN 5920-00-636-3231.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-42	<b>2.11 Military Lighting</b>	N/A	N/A	N/A	N/A	N/A
BA-11-43	The Trailer shall be equipped with a blackout lighting system IAW STANAG 4381.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-44	<b>2.12 Stowage</b>	N/A	N/A	N/A	N/A	N/A



ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-45	The Trailer shall be equipped with external, weatherproof metal stowage containers(s). All stowage containers shall be equipped with drain holes.  Containers are to be tested IAW MIL-STD 810, Method 506.4 Rain Procedure I (rain and blowing rain). Any evidence of water ingress or degradation of performance due to exposure to rainfall will be cause for rejection.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-113	The external stowage containers shall be of adequate size to store the Standard Kit and Equipment as detailed in Attachment BA-12.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-145	External stowage containers shall have a locking mechanism to accept a padlock meeting ASTM F883-04 requirement F2S2.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-46	<b>2.13 Identification</b>	N/A	N/A	N/A	N/A	N/A
BA-11-47	The Trailer shall be provided with a license plate holder, IAW SAE J686, at the rear.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-122	<b>2.14 Data Plates</b>	N/A	N/A	N/A	N/A	N/A
BA-11-123	Data plates and decals shall be bilingual, English and French. Plates shall be IAW A-A-50271.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-124	The Trailer shall be equipped with warning or precautionary markings provided where necessary to protect personnel and equipment.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-154	Warning or precautionary markings on the Trailer shall use graphic symbols IAW STANAG 4050.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-125	The following information shall be permanently affixed in a conspicuous and protected location: a. The manufacturer's name, model number, model year and Vehicle Identification Number (VIN); b. The GTWR and GAWR ratings; and c. The load data.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-57	<b>2.15 Drawbar</b>	N/A	N/A	N/A	N/A	N/A
BA-11-58	The drawbar shall be retractable and shall allow the Vehicle and Trailer to negotiate cross-country terrain.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-59	A tow eye shall be provided IAW STANAG 4101.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-60	Safety chains shall be provided that are adjustable and compatible to all lengths of the drawbar.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-61	The tow eye shall have the capability of being secured in the fixed position so that it can be towed by Vehicles with a rotating pintle hook.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-62	The tow eye shall be capable of rotating around the longitudinal axis.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-64	The drawbar shall allow a swing radius between the rear of the Vehicle and Trailer IAW STANAG 4101.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-78	<b>2.16 Rear Impact Guard</b>	N/A	N/A	N/A	N/A	N/A
BA-11-79	The Trailer shall be equipped with a rear-impact guard IAW CMVSS 223. The device may be adjustable for off road use, thereby not reducing Trailer mobility.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-115	<b>2.17 Paint and Surfaces</b>	N/A	N/A	N/A	N/A	N/A
BA-11-116	The Trailer shall be coated with Chemical Agent Resistant Coating (CARC) system IAW MIL-DTL-53072.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-117	The exterior topcoat shall be IAW MIL-DTL-64159 Type II or MIL-C-53039, colour 34094 (flat green) IAW Fed-Std-595.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-119	All areas where a soldier may step to carry out any functions and duties related to camouflaging, operating, maintaining or servicing the Trailer including all installed systems, subsystems and components shall have non-slip surfaces IAW MIL-PRF-24667, Type I.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-120	The Trailer design, materials used in fabrication, surface preparation products, paint system and the corrosion preventative coatings shall function together as a system to prevent to the greatest extent possible corrosion related failures of the Trailer for the duration of the 20 year service life.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-153	The Trailer underbody shall have a corrosion preventative coating system IAW SAE J1959 or applicable country of origin laws, regulations and industry standards.	CON	N/A	SOC	Mandatory Requirement. No points allotted.	N/A
BA-11-48	<b>3 Trailer Requirements-Rated Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-11-131	<b>3.1 N/A</b>	N/A	N/A	N/A	N/A	N/A
BA-11-138	<b>3.2 Mobility</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-139	<p>Trailer ground clearance at GTW should be up to 450 mm (measured IAW SAE J1100 dimension).</p> <p>The measurement will be taken with tires inflated to their recommended operating pressure. Ground clearance will be measured from the lowest point under the Trailer excluding the wheel stations.</p>	CON	N/A	POC	<p>Points (%) will be allotted as defined below.  Let GC = Ground Clearance (mm)</p> <p>If GC &lt; 350 mm; then  allotted points = 0%</p> <p>If GC &gt; 450 mm; then allotted points = 100%</p> <p>Otherwise the allotted points will be calculated as follows:  Points (%) = GC - 350</p>	
BA-11-142	The Trailer should be capable of fording a water obstacle to a depth of 1500 mm IAW STANAG 2805 within a maximum preparation time of fifteen minutes using on-board equipment, and a crew of two (2) soldiers.	CON	N/A	POC	<p>Points (%) will be allotted as defined below.  Let FD = Fording Depth (m)</p> <p>If FD &lt; 1000 mm; then  allotted points = 0%</p> <p>If FD &gt;= 1000mm and FD &lt; 1250 mm; then allotted points = 33%</p> <p>If FD &gt;= 1250mm and FD &lt; 1500 mm; then allotted points = 67%</p> <p>If FD &gt;= 1500 mm; then  allotted points = 100%</p>	
BA-11-52	<b>3.3 Trailer Payload</b>	N/A	N/A	N/A	N/A	N/A

ID	SMP - Attachment BA-11 - Load Handling System Trailer Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-11-53	The Trailer loaded to GTW should carry a minimum payload of 10,000kg.	CON	TEST	POC	Points (%) will be allotted as defined below. Let P = Payload (kg) If P < 8500 kg; then allotted points = 0% If P >= 8500 kg and P < 9000 kg; then allotted points = 25% If P >= 9000 kg and P < 9500 kg; then allotted points = 50% If P >= 9500 kg and P < 10000kg; then allotted points = 75% If P >= 10000 kg; then allotted points = 100%	
BA-11-55	<b>3.4 Wheels and Tires</b>	N/A	N/A	N/A	N/A	N/A
BA-11-56	The Trailer wheel assemblies and tires should be the same as those used on the Vehicle.	CON	N/A	POC	Full points shall be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	
BA-11-148	The spare wheel carrier should be configured such that the spare tire can be removed and remounted from the right hand side or rear of the Trailer.	CON	N/A	POC	Full points shall be allotted if it is demonstrated that the requirement is fully met. No points will be allotted if requirement is not fully met.	

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

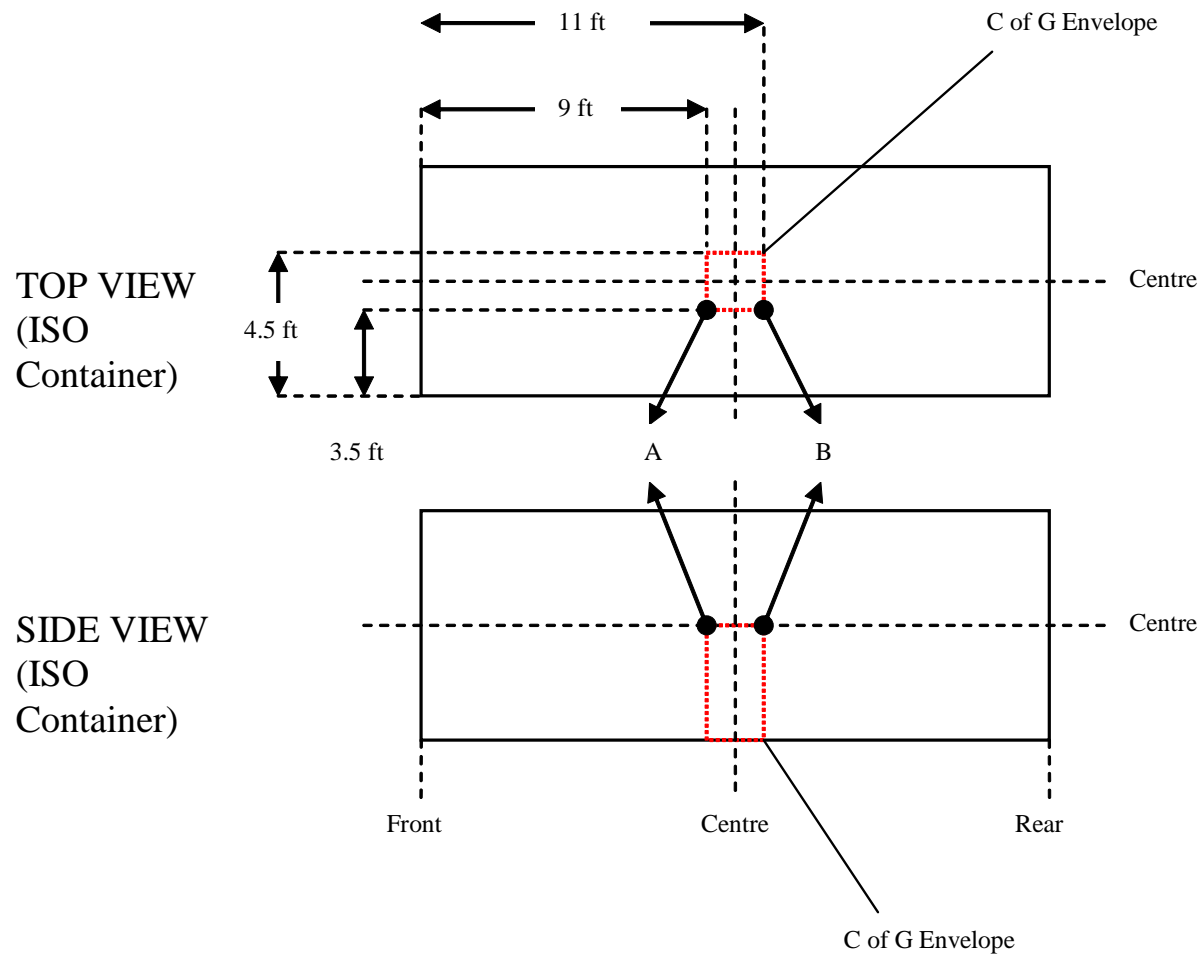
Part 7 - Resulting Contract - Acquisition

ANNEX B – STATEMENT OF WORK

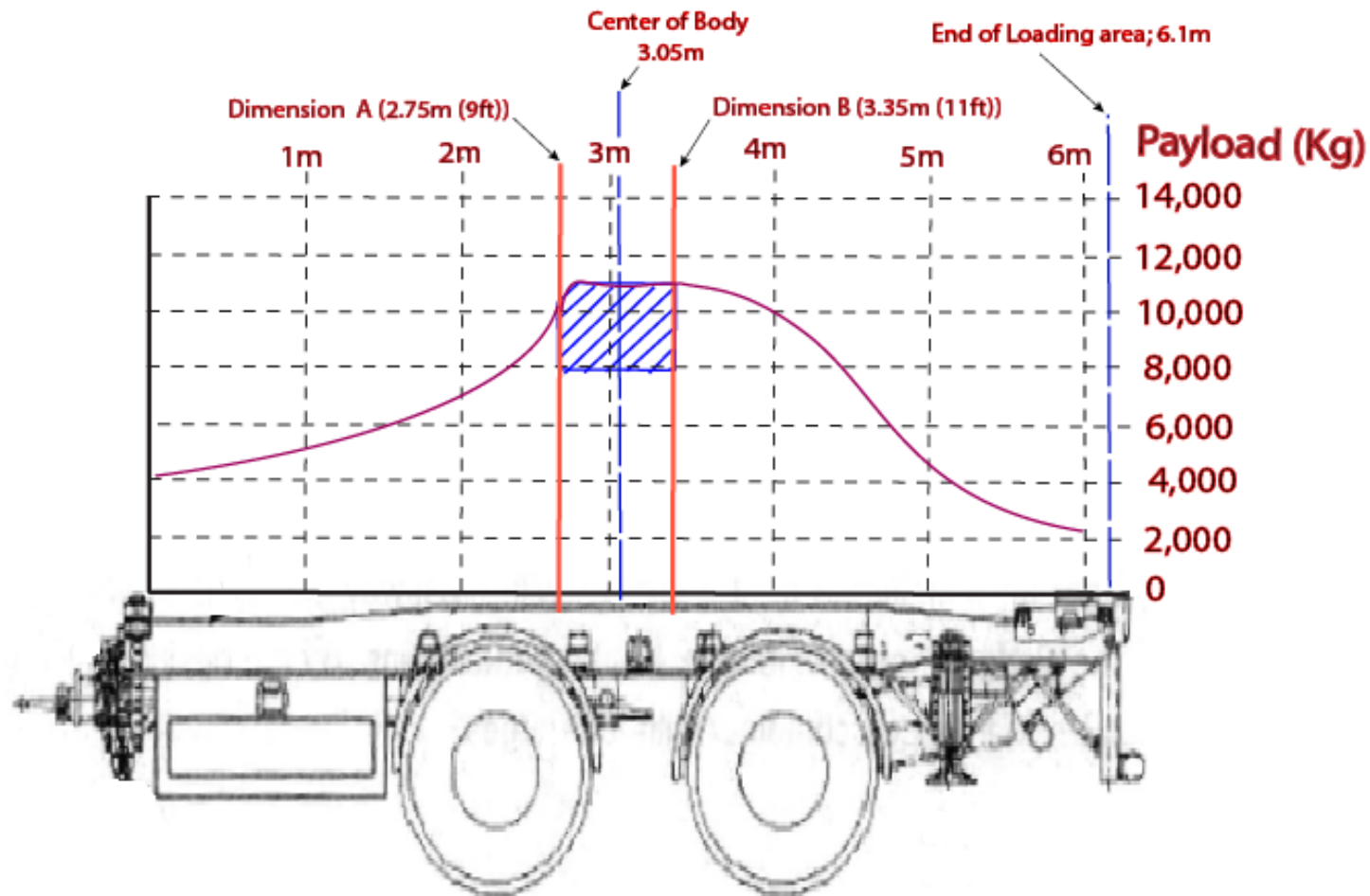
APPENDIX BA – VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-11 LOAD HANDING SYSTEM TRAILER REQUIREMENTS

SCHEDULE BA-11-1- LHS TRAILER PAYLOAD CENTER OF GRAVITY ENVELOPE



**Note: The load distribution curves are approximate, and are provided as an example for illustration purposes only**



**Figure 2: SAMPLE WEIGHT DISTRIBUTION DIAGRAM**



**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)

W8476-06-MSMP/L

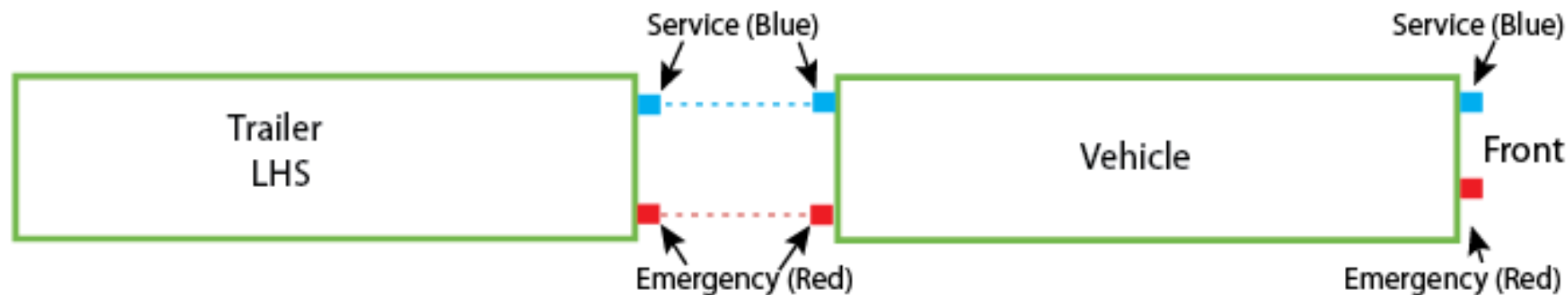
Part 7 - Resulting Contract - Acquisition

ANNEX B- STATEMENT OF WORK

APPENDIX BA- VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-11- LOAD HANDLING SYSTEM TRAILER REQUIREMENTS

SCHEDULE BA-11-2- GLADHAND CONFIGURATION AND NOMENCLATURE



**LHS TRAILER GLADHAND CONFIGURATION AND NOMENCLATURE**

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-12 –TRAILER STANDARD KIT AND EQUIPMENT

ID	SMP - Attachment BA-12 - Trailer Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GSM	Remarks
BA-12-118	<b>1 Scope</b>								
BA-12-120	This document describes the on board equipment that the Trailer may carry as part of its load.								
BA-12-63	<b>2 Wheel Changing Kit</b>								All tire changing tools shall be co-located.
BA-12-69	<b>2.1 Wood Block</b>	5510-21-906-1369	2	1.6	3.2	10 x 20 x 25	Yes	NO	Contractor to provide a secure stowage location.
BA-12-72	<b>2.2 Trailer Jack</b>	TBD	1	TBD	TBD	TBD	NO	NO	Contractor to provide and securely stow.
BA-12-75	<b>2.3 Wheel Wrench</b>	TBD	1	TBD	TBD	TBD	NO	NO	Contractor to provide and securely stow.
BA-12-124	<b>3 Not used</b>								
BA-12-125	<b>4 Sand Shoe</b>	TBD	4	TBD	TBD	TBD	NO	NO	Contractor to provide and securely stow
BA-12-126	<b>5 Crank Handle</b>	TBD	1	TBD	TBD	TBD	NO	NO	Contractor to provide and securely stow
BA-12-78	<b>6 Camouflage</b>								
BA-12-79	<b>6.1 Camouflage Net</b>	1080-21-907-1094	2	10.0	20.0	90 x 90 x 50 (Folded up)	Yes	NO	Contractor to provide a secure stowage location.

ID	SMP - Attachment BA-12 - Trailer Standard Kit and Equipment	NSN	Item Qty	Item Weight (kg)	Total Weight (kg)	Dimensions (cm)	GFE	GSM	Remarks
BA-12-80	6.2 Bag	8105-20-002-1723	1	0.5	0.5	N/A	Yes	NO	Contractor to provide a secure stowage location.
BA-12-87	6.2.1 Cam Poles	1080-12-191-5200	20	1.0	20.0	120 x 3.5 x 3.5	Yes	NO	Located in Bag.
BA-12-88	6.2.2 Cam Pole spreader	1080-12-124-1609	10	0.5	5.0	28 x 28 x 20	Yes	NO	Located in Bag.

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 7 – Resulting Contract - Acquisition

Annex B – Statement of Work

Appendix BA – Vehicle Performance Requirements

Attachment BA-13 – Not Used

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BA - VEHICLE PERFORMANCE REQUIREMENTS

ATTACHMENT BA-14 – MOBILE REPAIR TRUCK REQUIREMENTS

ID	SMP- Attachment BA-14 - Mobile Repair Truck (MRT) Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-14-1	<b>1 Scope</b>	N/A	N/A	N/A	N/A	N/A
BA-14-2	<p>This Attachment describes the performance and technical requirements of the Cargo Mobile Repair Truck (MRT) Variant.</p> <p>The Mobile Repair Truck (MRT) Variant will have a cargo bed of the same configuration as the Cargo with Crane Variant with the exception that the cargo sideboards will be fitted for but not with. In service, the Mobile Repair Truck (MRT) Variant will be equipped with a ten foot (10') ISO Container located at the front of the cargo bed, and thus, in addition to the features of the Cargo with Crane Variant, the Mobile Repair Truck (MRT) Variant shall be provided with MRT sideboards, a cargo deck access point, an MRT tarp and superstructure assembly and cargo deck non-slip surface.</p>	N/A	N/A	SOC	N/A	N/A
BA-14-4	<b>2 MRT Variant Requirements - Mandatory Criteria</b>	N/A	N/A	N/A	N/A	N/A
BA-14-5	<b>2.1 Standard Design</b>	N/A	N/A	N/A	N/A	N/A
BA-14-6	The Mobile Repair Truck (MRT) Variant shall meet all the requirements of Attachment BA-9 Cargo with Crane Variant requirements, unless otherwise specified in this Attachment.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-7	The Mobile Repair Truck (MRT) Variant shall function with the Vehicle components as an integrated system.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-8	The Mobile Repair Truck (MRT) variant, and its integration, shall withstand the full range of loads and torsional forces of vehicle components throughout the Vehicle mobility range and mission profile.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A



ID	SMP- Attachment BA-14 - Mobile Repair Truck (MRT) Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-14-9	<b>2.2 MRT Variant</b>	N/A	N/A	N/A	N/A	N/A
BA-14-10	<p>The Mobile Repair Truck (MRT) Variant shall be configured with the following:</p> <ul style="list-style-type: none"> <li>a. cargo bed consisting of the following; <ul style="list-style-type: none"> <li>i. tiedowns / ISO twist locks / SEV access system (same as Cargo Variant);</li> <li>ii. front bulkhead (same as Cargo Variant);</li> <li>iii. rear bulkhead (same as Cargo with Crane Variant);</li> <li>iv. auxiliary tiedowns (same as Cargo with Crane Variant); and</li> <li>v. cargo sideboard provisions (same as Cargo with Crane Variant).</li> </ul> </li> <li>b. MRT sideboards;</li> <li>c. cargo deck access points;</li> <li>d. MRT retractable superstructure and tarp assembly;</li> <li>e. cargo deck non-slip surface;</li> <li>f. material handling crane (same as Cargo with Crane Variant); and</li> <li>g. winch IAW Attachment BA-10.</li> </ul>	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-21	<b>2.3 MRT Sideboards</b>	N/A	N/A	N/A	N/A	N/A
BA-14-22	The Mobile Repair Truck (MRT) Variant shall maintain the capability to be equipped with the Cargo Variant sideboards and shall be fitted with all the necessary weldments and bracketry required for the installation of the Cargo Variant sideboards.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A

ID	SMP- Attachment BA-14 - Mobile Repair Truck (MRT) Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-14-23	The Mobile Repair Truck (MRT) Variant shall be equipped with MRT Sideboards between the 10' ISO Container and rear bulkhead.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-91	The MRT Sideboards shall be configured so that they can be moved to a vertical down position. The sideboards shall not protrude above the cargo bed floor surface when in the vertical down position.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-97	The MRT Sideboards shall be at a nominal height of 0.45 meters, as measured from the cargo bed floor.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-99	The MRT Sideboards shall be capable of withstanding the lateral load forces exerted by a 1,134 kg pallet, unsecured and placed against the sideboard, throughout the full range of all mobility requirements.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-100	The MRT Sideboards shall be capable of being removed by no more than two soldiers. If tools are required for the removal of sideboards, the tools shall be provided with the Vehicle and stowed with the Vehicle Tool Kit IAW Attachment BA-1.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-101	The MRT sideboards shall incorporate non-metallic bumpers to prevent metal to metal contact, noise and abrasion when the side boards are in both the vertical up and vertical down position	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-102	The MRT sideboards, when in the vertical down position, shall allow for forklift loading of a standard size pallet (48 in. x 48 in.).	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-109	<b>2.4 Cargo Deck Access Points</b>	N/A	N/A	N/A	N/A	N/A
BA-14-81	The MRT sideboards shall be equipped with an access point located on each side of the Vehicle approximately midway between the rear of ISO container and the rear bulkhead.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-103	The access point shall allow the operators to use the two SEV Access Systems (Appendix BA, Attachment BA-7-184).	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A

ID	SMP- Attachment BA-14 - Mobile Repair Truck (MRT) Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-14-104	The access point shall allow operator access to and from the cargo deck with the Superstructure and Tarp Assembly in the deployed and retracted positions.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-105	The access point shall allow operators access to and from the cargo deck with the ISO Container door in the open and closed position.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-31	<b>2.5 MRT Superstructure and Tarp Assembly</b>	N/A	N/A	N/A	N/A	N/A
BA-14-46	The superstructure and tarp assembly when in the closed position shall cover the area between the rear face of the 10' ISO container and the rear bulkhead.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-32	The superstructure and tarp assembly shall be capable of being opened (retracted) and closed in five minutes by two operators.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-33	The superstructure and tarp assembly when in the open (retracted) position shall not obstruct or interfere with the operation of the ISO Container door, the crane operation and forklift loading / unloading.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-34	The interior height of the superstructure and tarp assembly, within 15cm (6in) of the interior side structure, shall not be less than 1.83m (6ft).	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-35	The superstructure and tarp assembly shall incorporate a tarp tightening system that ensures the tarp remains tight during vehicle operation, minimizes tarp droop to no greater than 50mm and does not allow water, snow or ice to accumulate on the top.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-111	There shall be no sharp edges or protrusions on the cargo box, sideboards or superstructure that cause premature wear on the tarp when installed.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-36	The superstructure and tarp assembly, shall not project beyond the width and height of container	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-37	The tarp shall be constructed of Type III material, IAW D-80-001-149/SF-001.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A

ID	SMP- Attachment BA-14 - Mobile Repair Truck (MRT) Variant Requirements	RV	TCM	Proposal Compliance Method	Evaluation Point Allocation	Proposal Reference
BA-14-38	The superstructure and tarp assembly when in the closed position shall be designed to prevent the ingress of dirt, water, and sand at the interface to the ISO Container and the rear deck area.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-39	The superstructure and tarp assembly shall have access points that allow operators to access the cargo bed on both the curb side and road side of the Vehicle. These access points shall be aligned with the sideboard access points.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-40	The superstructure and tarp assembly shall not interfere with the installation of the SEV Access System.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-42	The superstructure and tarp assembly shall provide a means for the operators to roll up and secure the tarp side panels and rear flap.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-43	The superstructure and tarp assembly shall be designed to allow for vehicle operation with system in the opened or closed position.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A
BA-14-88	<b>2.6 Cargo Deck Non-Slip</b>	N/A	N/A	N/A	N/A	N/A
BA-14-90	The surface of the cargo deck between the rear face of the 10' ISO container and the rear bulkhead shall be treated with M24667-B1 or M24667-D1 non-slip coating IAW MIL-PRF-24667.	CON	N/A	SOC	Mandatory Requirement. No Points allotted.	N/A

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 7 – Resulting Contract - Acquisition

Annex B – Statement of Work

APPENDIX BB – DRMIS Master Data Guidelines for Army Fleets

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06-MSMP/L

Part 7 – Resulting Contract - Acquisition

Annex B – Statement of Work

**APPENDIX BC – Interactive Electronic Technical Manual Specifications**

ID	Interactive Electronic Technical Manual	Proposal Compliance Method	Evaluation Point Allocation
<b>BC-1</b>	<b>1 Scope</b>	<b>N/A</b>	<b>N/A</b>
BC-2	This Appendix states the requirements for the content, style, format, and user interaction features of the Interactive Electronic Technical Manual (IETM) for the Vehicle, APS, and Trailer.	N/A	N/A
BC-509	The IETM provides all descriptive, operation, maintenance, troubleshooting, and parts information as prescribed for the applicable maintenance level(s) based on the maintenance concept as described in the SOW Introduction of the ISS Model Contract, Annex B - ISS Statement of Work (SOW).	N/A	N/A
<b>BC-111</b>	<b>2 IETM Requirements</b>	<b>N/A</b>	<b>N/A</b>
<b>BC-392</b>	<b>2.1 General Requirements</b>	<b>N/A</b>	<b>N/A</b>
BC-394	The format and style of the presented information shall be a Graphical User Interface (GUI) format for presentation on a non proprietary hardware such as a Desktop PC, Laptop, or a Portable Electronic Display Device (PEDD).	SOC	Mandatory Requirement. No Points allotted.
BC-395	The computer-controlled IETM shall function interactively as a result of the user's request and/or Built-In Test (BIT) system information input in providing procedural guidance and navigation directions.	SOC	Mandatory Requirement. No Points allotted.
BC-393	The IETM shall be frame oriented, not page oriented.	SOC	Mandatory Requirement. No Points allotted.
<b>BC-518</b>	<b>2.2 Functionalities</b>	<b>N/A</b>	<b>N/A</b>
BC-519	The IETM functionalities, common look and feel shall be IAW MIL-STD-40051-1 Preparation of Digital Technical Information for Interactive Electronic Technical Manuals and Attachment BC-1 - IETM Functionality Matrix. Appendix B thru I of MIL-STD-45001-1 may be excluded.	SOC	Mandatory Requirement. No Points allotted.
<b>BC-288</b>	<b>2.3 Front Matter</b>	<b>N/A</b>	<b>N/A</b>
BC-289	The Front matter items shall be accessible to the user at all times.	SOC	Mandatory Requirement. No Points allotted.

ID	Interactive Electronic Technical Manual	Proposal Compliance Method	Evaluation Point Allocation
BC-397	The Front matter shall consist of but not be limited to the following items: a. Title page; b. Table of Contents; c. List of Illustrations; d. List of Tables; e. List of acronyms and abbreviations; and f. List of Publication Updates and Change Summary List.	SOC	Mandatory Requirement. No Points allotted.
<b>BC-265</b>	<b>2.4 List of Modules or Sections</b>	<b>N/A</b>	<b>N/A</b>
<b>BC-355</b>	<b>2.4.1 Operator Instructions</b>	<b>N/A</b>	<b>N/A</b>
BC-356	The Operator Instructions shall include all detailed procedures and illustrations to safely operate and service the Vehicle, APS, and Trailer in normal and emergency conditions.	SOC	Mandatory Requirement. No Points allotted.
<b>BC-292</b>	<b>2.4.2 Maintenance Instructions</b>	<b>N/A</b>	<b>N/A</b>
BC-293	The Maintenance Instructions shall contain all the necessary information, procedures, illustrations, schematics and photos to permit troubleshooting, testing, adjustment, repairs, removals, installation, disassembly, and assembly of major assemblies and sub-assemblies of the Vehicle, APS, and Trailer.	SOC	Mandatory Requirement. No Points allotted.
<b>BC-314</b>	<b>2.4.3 Testing and Fault Isolation</b>	<b>N/A</b>	<b>N/A</b>
BC-317	Testing and Fault Isolation procedures shall guide a technician in detecting, isolating, and correcting system and equipment failures/malfunctions on the Vehicle, APS, and Trailer.	SOC	Mandatory Requirement. No Points allotted.
BC-517	Each Test and Fault Isolation procedure shall be primarily in a textual description format.	SOC	Mandatory Requirement. No Points allotted.
BC-516	Each Testing and Fault Isolation procedure shall include a description and setup instruction of tools, materials, and test equipment required to complete the procedure.	SOC	Mandatory Requirement. No Points allotted.
<b>BC-367</b>	<b>2.4.4 Illustrated Parts Breakdown</b>	<b>N/A</b>	<b>N/A</b>
BC-376	The Illustrated Parts Breakdown (IPB) provides a top down breakdown of the equipment in the configuration in which it is being procured. In this breakdown, all assemblies, sub-assemblies and parts are listed in relation to the next higher assembly.	N/A	N/A
BC-369	The IPB shall provide a pictorial view and list all parts of the Vehicle, APS, and Trailer in a lateral and descending family tree or generation breakdown.	SOC	Mandatory Requirement. No Points allotted.



<b>ID</b>	<b>Interactive Electronic Technical Manual</b>	<b>Proposal Compliance Method</b>	<b>Evaluation Point Allocation</b>
BC-382	Leader lines and index numbers shall be used.	SOC	Mandatory Requirement. No Points allotted.
BC-380	The Group Assembly Parts List (GAPL) shall have the following details:  a. The figure and index number;  b. Item part number;  c. Nomenclature and Commercial And Government Entity (CAGE) code;  d. Unit per assembly; and  e. Usable on code (if applicable).	SOC	Mandatory Requirement. No Points allotted.
<b>BC-296</b>	<b>2.4.5 Data Summary</b>	<b>N/A</b>	<b>N/A</b>
BC-297	The Data Summary shall contain a basic descriptive and identification data for the Vehicle, APS, and Trailer IAW D-01-100-200/SF-015 Part 3, Preparation of Data Summaries for Standard Military Pattern Vehicles and Equipment.	SOC	Mandatory Requirement. No Points allotted.
BC-506	C-30-406-000/MA-000, Data Summary Truck, Cargo, 10 Tons, 6x6, HLVW Model H808 With Self-recovery Winch, shall be used as a guideline regarding the content of the Data Summary.	SOC	Mandatory Requirement. No Points allotted.
<b>BC-302</b>	<b>2.4.6 Stowage and Shipping</b>	<b>N/A</b>	<b>N/A</b>
BC-303	The Stowage and Shipping section shall include the following for the Vehicle, APS, and Trailer :  a. General Information;  b. Preparation for shipment by land;  c. Preparation for shipment by sea; and  d. Preparation for shipment by air.	SOC	Mandatory Requirement. No Points allotted.
BC-383	C-30-560-000/VS-001, Equipment Stowage and Shipping Instructions Chassis, Light Armoured Vehicle (LAV), Armoured Personnel Carrier (APC), Wheeled, 8X8, Diesel shall be used as a guideline regarding the content of the Stowage and Shipping instructions.	SOC	Mandatory Requirement. No Points allotted.

ID	Interactive Electronic Technical Manual	Proposal Compliance Method	Evaluation Point Allocation
<b>BC-514</b>	<b>2.4.7 Permissive Repair Schedule &amp; Standard Repair Time (PRS/SRT)</b>		<b>N/A</b>
BC-515	The PRS/SRT shall identify normal repair responsibilities and planning times for task pertaining to the Vehicle, APS, and Trailer IAW C-04-010-002/AM-000, Permissive Repair Schedule and Standard Repair Times.	SOC	Mandatory Requirement. No Points allotted.
<b>BC-524</b>	<b>2.4.8 Revision</b>		<b>N/A</b>
BC-525	A revision is comprised of corrected, updated, or additional pages or work packages to the current edition of the IETM. It consists of replacement work packages that contain new or updated technical information, or improves, clarifies or corrects existing information in the current version of the IETM.	N/A	N/A
BC-526	Each revision to the IETM shall be identified by a revision date.	SOC	Mandatory Requirement. No Points allotted.
BC-528	When an IETM is revised and reissued, revision summary information shall be included.	SOC	Mandatory Requirement. No Points allotted.

**STANDARD MILITARY PATTERN (SMP)**  
**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

Request For Proposal  
W8476-06-MSMP/L

Part 7 – Resulting Contract - Acquisition

Annex B – Statement of Work

APPENDIX BC – IETM

**ATTACHMENT BC-1 - IETM FUNCTIONALITY MATRIX**

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-1</b>	<b>1 IETM Mandatory Requirements</b>		<b>N/A</b>	<b>N/A</b>	
BC-1-787	A complete description and further explanation of the functionalities required for the IETM are described in MIL-STD-40051-1 Appendix A. The Reference Text column identifies the location of the clarification text in MIL-STD-40051-1. In this Attachment, Weapon System means the MSVS SMP Vehicles, APS and Trailers.		Information Only	N/A	
<b>BC-1-659</b>	<b>1.1 Delivery and Distribution (DD) Category</b>		<b>N/A</b>	<b>N/A</b>	
<b>BC-1-794</b>	The IETM is to be delivered in one of the two below methods (paragraph 1.1.1 or paragraph 1.1.2), or both, at the contractor's discretion.		<b>N/A</b>	<b>N/A</b>	
<b>BC-1-532</b>	<b>1.1.1 CD-ROM or DVD</b>	<b>A.5.2.3.3.1 and A.5.2.3.3.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-671	Distribution and/or delivery shall be accomplished by Compact Disc - Read Only Memory (CD-ROM) or Digital Video Disc (DVD).		SOC	Mandatory Requirement if BC-1-672 is not accomplished. No Points allotted.	
<b>BC-1-533</b>	<b>1.1.2 Network Distribution</b>	<b>A.5.2.3.3.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-672	Distribution by Intranet (internal to one network) shall consist of direct transfer from one computing system to another.		SOC	Mandatory Requirement if BC-1-671 is not accomplished. No Points allotted.	
BC-1-673	Distribution shall be via secure File Transfer Protocol (FTP), Hypertext Transfer Protocol Secure (HTTP), or other secure transfer protocols.		SOC	Mandatory Requirement. No Points allotted.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-660</b>	<b>1.2 Diagnostics and Prognostics (DP) Category</b>		<b>N/A</b>	<b>N/A</b>	
<b>BC-1-534</b>	<b>1.2.1 Diagnostics - User Determined Entry to IETM</b>	<b>A.5.2.3.4.1</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-674	Tasking for troubleshooting procedures shall be primarily textual references. 'If statements' (if a light is on as an example) provide alternatives in a narrative form. The user determines starting point for maintenance action, through the use of a predefined fault tree or index table.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-661</b>	<b>1.3 External Processes (E) Category</b>		<b>N/A</b>	<b>N/A</b>	
<b>BC-1-629</b>	<b>1.3.1 Operator Debriefing</b>	<b>A.5.2.3.5.4</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-675	The Operator Debriefing functionality shall include interface with operator and/or maintenance debriefing system for selecting task assignments.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-662</b>	<b>1.4 Graphics (G) Category</b>		<b>N/A</b>	<b>N/A</b>	
<b>BC-1-535</b>	<b>1.4.1 Assembly Disassembly</b>	<b>A.5.2.3.6.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-676	Graphical figure shall allow virtual assembly, disassembly, removal, and installation of parts of the weapon system as shown in MIL-STD-40051-1 Figure A-19.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-536</b>	<b>1.4.2 Locator Graphics</b>	<b>A.5.2.3.6.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-677	Locator graphics shall show where a component is located relative to other components as shown in MIL-STD-40051-1 Figure A-20 and Figure A-21.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-537</b>	<b>1.4.3 Pan, Zoom, Expand, Magnify</b>	<b>A.5.2.3.6.4</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-678	The Pan, Zoom, Expand, Magnify functionality shall be provided to perform pan, zoom, expand, rotate and magnify on a graphic.		SOC	Mandatory Requirement. No Points allotted.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-663</b>	<b>1.5 Linking (L) Category</b>	<b>A.5.2.3.7</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-679	IETM basic linking functionality shall link access or connections to the data within the IETM such as from the table of contents to the applicable IETM section.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-538</b>	<b>1.5.1 Hotspotting</b>	<b>A.5.2.3.7.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-680	The Hotspotting functionality shall have the capability for links to be enabled within a graphic as shown in MIL-STD-40051-1 Figure A-22.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-539</b>	<b>1.5.2 Link to Separate Parts Data</b>	<b>A.5.2.3.7.4</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-681	Linkage from a maintenance task or narrative shall be provided to a separate parts display in the current or separate window.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-540</b>	<b>1.5.3 Table of Contents</b>	<b>A.5.2.3.7.5</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-682	A Table of Contents listing all work packages, figures, and tables shall be provided with the IETM.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-683	The Table of Contents shall have the exact same title as they appear in the IETM.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-684	Figures and tables shall be listed, in order as they appear, under the corresponding work package.		SOC	Mandatory Requirement. No Points allotted.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-664</b>	<b>1.6 Navigation and Tracking (N) Category</b>		<b>N/A</b>	<b>N/A</b>	
<b>BC-1-541</b>	<b>1.6.1 Exit</b>	<b>A.5.2.3.8.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-685	The Exit functionality shall initiate the exit process that closes the IETM session.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-686	The user of the IETM shall always be asked for the confirmation that he or she wants to exit the IETM.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-542</b>	<b>1.6.2 Graphical Navigation</b>	<b>A.5.2.3.8.9</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-687	The Graphical Navigation functionality shall provide the capability to navigate the IETM through graphical representation of the system and its components.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-543</b>	<b>1.6.3 History of Traversed Links</b>	<b>A.5.2.3.8.10</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-688	The History of Traversed Links functionality shall track and list each location (link) a user sees along the navigational path through an IETM.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-689	The IETM user shall have the ability to bring the list up and use each location (link), in the history list, as a link back to a point in the path.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-544</b>	<b>1.6.4 Next and Previous</b>	<b>A.5.2.3.8.11</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-690	Next and Previous functionality shall take the user through a procedure in a sequential manner.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-545</b>	<b>1.6.5 Forward and Back</b>	<b>A.5.2.3.8.12</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-692	The Forward and Back functionality shall permit re-navigation through previously viewed data.		SOC	Mandatory Requirement. No Points allotted.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-546</b>	<b>1.6.6 Search - Context</b>	<b>A.5.2.3.8.13.1</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-693	The Search Context functionality shall allow the user to search within an IETM or data sources within a particular context (e.g. parts, steps, tables).		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-547</b>	<b>1.6.7 Search - Key Word</b>	<b>A.5.2.3.8.13.5</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-694	The Key Word Search functionality shall allow the user to search an IETM for occurrences of a specific word.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-665</b>	<b>1.7 Printing (P) Category</b>		<b>N/A</b>	<b>N/A</b>	
<b>BC-1-548</b>	<b>1.7.1 Print Screen</b>	<b>A.5.2.3.9.4</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-695	The Print Screen functionality shall provide a print of only the screen currently being viewed by the user.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-696	The information scrolled off the screen shall not be printed.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-549</b>	<b>1.7.2 Print Frame</b>	<b>A.5.2.3.9.5</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-697	The Print Frame functionality shall provide a print of the screen currently being viewed by the user and the scrolled off information.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-666</b>	<b>1.8 Special Content (S) Category</b>		<b>N/A</b>	<b>N/A</b>	
<b>BC-1-550</b>	<b>1.8.1 Alerts</b>	<b>A.5.2.3.10.1</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-698	The Alerts functionality shall be readily identified and shall require specific operator acknowledgment prior to proceeding with the data being presented.		SOC	Mandatory Requirement. No Points allotted.	



ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
BC-1-700	Warnings and cautions shall be alerts.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-551	<b>1.8.2 Content Sensitive Help (Technical Data)</b>	<b>A.5.2.3.10.4</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-701	The Content Sensitive Help (Technical Data) functionality shall be available to the user based on the data being presented or the tasks being performed through a common interface.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-552	<b>1.8.3 Context Sensitive Help (Viewer Help)</b>	<b>A.5.2.3.10.4.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-703	The Context Sensitive Help (Viewer Help) functionality shall be available to the user for the IETM operation including the features and functions of the IETM viewer.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-553	<b>1.8.4 Selectable Text</b>	<b>A.5.2.3.10.9</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-704	The Selectable Text functionality shall provide the capability to highlight and select text for the purpose of copy and paste.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-554	<b>1.8.5 Selectable Graphics</b>	<b>A.5.2.3.10.10</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-705	The Selectable Graphics functionality shall provide the capability to highlight and select graphics for the purpose of copy and paste.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-667	<b>1.9 Updates (U) Category</b>	<b>A5.2.3.11</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-714	The Updates Category shall include change markings or other change indications when the IETM is revised.		SOC	Mandatory Requirement. No Points allotted.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-569</b>	<b>1.9.1 Active Change Indications and Markings</b>	<b>A.5.2.3.11.1</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-716	Each change shall be discretely marked or identified in the IETM.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-717	The IETM shall include a revision summary list.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-620</b>	<b>1.9.2 Network Connectivity - Update Capability (Full Revision)</b>	<b>A.5.2.3.12.1.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-784	The Network Connectivity Update Capability (Full Revision) shall be able to be installed on a host server and updates shall be able to be transmitted via the network.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-783	A full revision shall be a complete replacement of the data previously distributed.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-785</b>	<b>1.9.3 Network Connectivity - Update Capability (Partial Revision)</b>	<b>A.5.2.3.12.1.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-782	The Network Connectivity Update Capability (Partial Revision) shall entail the update of the data via network distribution that contain only the changed information from the previously release.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-668</b>	<b>1.10 User Operation Mode (Uo)</b>	<b>A.5.2.3.12</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-721	User Operation Mode is the connectivity of the maintenance support device (MSD) or e-tool.		N/A	N/A	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-571</b>	<b>1.10.1 Network Connectivity</b>	<b>A.5.2.3.12.1</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-722	The end user shall be able to have access to the IETM via a network infrastructure.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-724	The data shall be able to be downloaded to and viewed on the client device.		SOC	Mandatory Requirement. No Points allotted.	
BC-1-725	The IETM viewing device shall be able to be disconnected from the server and operated in a stand-alone mode.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-572</b>	<b>1.10.2 Stand Alone Mode</b>	<b>A.5.2.3.12.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-727	The end user shall access either the IETM via the hard drive or CD-ROM/DVD drive.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-573</b>	<b>1.10.3 Stand Alone Mode - Update Capability (Full Revision)</b>	<b>A.5.2.3.12.2.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-728	The Stand Alone Mode - Update Capability (Full Revision) shall entail the update of the data via an entire CD-ROM/DVD distribution.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-574</b>	<b>1.10.4 Stand Alone Mode - Update Capability (Partial)</b>	<b>A.5.2.3.12.2.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-730	The Stand Alone Mode - Update Capability (Partial) shall entail the update of the data via CD-ROM/DVD distribution that contains only the changed information from the previous release.		SOC	Mandatory Requirement. No Points allotted.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-575</b>	<b>1.10.5 Web Browser Viewable</b>	<b>A.5.2.3.12.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-731	This functionality shall allow the IETM to be viewed through a COTS web browser.		SOC	Mandatory Requirement. No Points allotted.	
<b>BC-1-658</b>	<b>2 IETM Rated Requirements</b>		<b>N/A</b>	<b>N/A</b>	
BC-1-793	Points are awarded based on demonstrating that the requirement is met.		N/A	N/A	
<b>BC-1-647</b>	<b>2.1 Annotation Category</b>	<b>A5.2.3.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-788	This functionality adds an electronic note to comment or provide additional explanation of the technical data. If the annotation functionality is included in the IETM, the contractor shall have procedures in place to manage the configuration of the IETM.		N/A	N/A	
<b>BC-1-625</b>	<b>2.1.1 Personal Annotation</b>	<b>A.5.2.3.2.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-732	Personal Annotation should be added or deleted at the end user's discretion and should not be retained at the end of the session.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-626</b>	<b>2.1.2 Redlining Graphics</b>	<b>A.5.2.3.2.4</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-733	Redlining Graphics should provide the capability to annotate graphics through the use of an overlay freehand-type drawing facility as shown in MIL-STD-40051-1 Figure A-16.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-649</b>	<b>2.2 Diagnostics and Prognostics Category</b>	<b>A.5.2.3.4</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-734	Diagnostics span from basic standalone troubleshooting procedures to integration with the weapon system and other maintenance systems.		N/A	N/A	
<b>BC-1-579</b>	<b>2.2.1 Diagnostics - Software Driven Entry to IETM</b>	<b>A.5.2.3.4.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-736	For the Diagnostics Software Driven Entry to IETM, the appropriate maintenance action starting point should be software determined through use of an inference or logic engine.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-580</b>	<b>2.2.2 Dynamic Diagnostics</b>	<b>A.5.2.3.4.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-737	Diagnostic capabilities should use on-board monitoring devices (e.g. Built-in test (BIT)) and/or support/test equipment to provide enhanced capability for fault detection and isolation.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
BC-1-738	Dynamic diagnostics direct fault isolation and troubleshooting should be based on results returned from the weapon system rather than inputs received from the user.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-581</b>	<b>2.2.3 Prognostics</b>	<b>A.5.2.3.4.4</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-739	Prognostics should predict the possible component degradation or impending failure, which will allow maintenance personnel to replace components based on their actual condition.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-735	Prognostics should include health monitoring system.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-582</b>	<b>2.2.4 System Simulation</b>	<b>A.5.2.3.4.5</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-740	The System Simulation functionality should include the capability to represent the behaviour or characteristics of the system function/malfunction to determine or reenact the problem as shown in MIL-STD-40051-1 Figure A-17.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-583</b>	<b>2.2.5 Wire/Fluid System Tracing</b>	<b>A.5.2.3.4.6</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-741	The Wire/Fluid System Tracing functionality should provide the capability to select a wire, fluid, pneumatic, or HVAC line, in a diagram or schematic and have continuity highlighted through the circuit or schematic as shown in MIL-STD-40051-1 Figure A-18.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-650</b>	<b>2.3 External Processes Category</b>	<b>A.5.2.3.5</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-742	The IETM environment has the potential to provide greater functionality by interacting with external processes, which are outside the technical data, to retrieve and transmit information.		N/A	N/A	
<b>BC-1-584</b>	<b>2.3.1 Deficiency Report</b>	<b>A.5.2.3.5.1</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-743	The Deficiency Report functionality should provide a method for users to capture and transmit errors and recommended changes from the IETM.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-585</b>	<b>2.3.2 Maintenance Data Collection</b>	<b>A.5.2.3.5.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-744	The Maintenance Data Collection functionality should capture and transmit configuration change data (i.e., removed and installed part number information), tasks authorized, tasks performed, results of that work.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-588</b>	<b>2.3.3 Supporting Technical Data</b>	<b>A.5.2.3.5.7</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-747	The Supporting Technical Data functionality should include links to general, part, and process manuals, commodity books, etc. May include links to commercial manuals where applicable.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-653</b>	<b>2.4 Navigation and Tracking Category</b>	<b>A.5.2.3.8</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-789	IETMs exhibit a number of different navigation methods that enable linear and nonlinear access through the data. Features such as "forward" and "back", search, and the use of bookmarks are considered to be relatively fundamental and consistent with most web-based data presentation techniques.		N/A	N/A	
<b>BC-1-593</b>	<b>2.4.1 Dialog-Driven Interaction</b>	<b>A.5.2.3.8.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-748	The Dialog-Driven Interaction functionality should allow the user to directly feed information to the IETM environment.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	



ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-594</b>	<b>2.4.2 Filter by Configuration</b>	<b>A.5.2.3.8.4</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-749	The Filter by Configuration functionality should narrow the information presented to the user to that associated with a specific configuration of the end item.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-595</b>	<b>2.4.3 Filter by Model Series</b>	<b>A.5.2.3.8.5</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-750	The Filter by Model Series functionality should narrow the information presented to the user to that associated with a specific model series of the end item.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-596</b>	<b>2.4.4 Filter by Modification</b>	<b>A.5.2.3.8.6</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-751	The Filter by Modification functionality should narrow the information presented to the user to that associated with a specific modification rather than the end item being modified.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
BC-1-597	<b>2.4.5 Filter by Unique Identification Code</b>	<b>A.5.2.3.8.8</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-752	The Filter by Unique Identification Code functionality should narrow the information presented to the user with a specific a unique identifier such as VIN.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-601	<b>2.4.6 Simultaneous Display of Multiple Content</b>	<b>A.5.2.3.8.14</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-753	The Simultaneous Display of Multiple Content functionality should establish a relationship between content elements (text, tables, graphics, etc.) allowing simultaneous display.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-755	The display of either element should require the display of the other as shown in MIL-STD-40051-1 Figure A-27.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
BC-1-602	2.4.7 System/Subsystem Navigation	A.5.2.3.8.15	N/A	N/A	
BC-1-756	The System/Subsystem Navigation functionality should allow the user to follow a top-down path through the breakdown structure of a system. The user follows a physical or functional breakdown to the next lower assembly and then to the next lower assembly from that.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-603	2.4.8 Tear off Window Capability	A.5.2.3.8.16	N/A	N/A	
BC-1-757	The Tear off Window Capability functionality should provide the capability (viewer navigation function) to capture an image of the existing pane/screen and then allow the user to navigate forward as shown in MIL-STD-40051-1 Figure A-28.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-759	The Tear off Window should provide the capability to display the "torn off" image for reference without requiring navigation back to the pane/screen.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-631</b>	<b>2.4.9 User Creation of Bookmarks</b>	<b>A.5.2.3.8.17</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-758	The User Creation of Bookmarks functionality should allow the user to flag certain locations for later access.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-652</b>	<b>2.5 Linking Category</b>	<b>A.5.2.3.7</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-760	IETM basic linking functionality is defined as essentially link access or connections to the data within the IETM such as from the table of contents to the applicable IETM section.		N/A	N/A	
<b>BC-1-590</b>	<b>2.5.1 Hot Reference</b>	<b>A.5.2.3.7.1</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-761	The Hot Reference functionality should provide the capability to display additional content (i.e. acronym, tool tip, etc.).		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-591</b>	<b>2.5.2 Internal References</b>	<b>A.5.2.3.7.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-762	The Internal References functionality should link to related data that may be accessed from one view in a presentation to another by the operator through navigating icons or links.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-654</b>	<b>2.6 Printing Category</b>	<b>A.5.2.3.9</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-790	Some IETMs by their nature are intended for use in an online environment, with print functionality limited primarily to task oriented and screen print output.		N/A	N/A	
<b>BC-1-633</b>	<b>2.6.1 Work Package Specific Printing</b>	<b>A.5.2.3.9.1</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-763	The Work Package Specific Printing functionality should provide the capability to print a discrete work package.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-764	Beyond the printed technical data, the following additional information should be printed: Time/Date stamps, classified security marks, destruction notices, and destruction requirements.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-634</b>	<b>2.6.2 Fully Formatted/Book Version Printing</b>	<b>A.5.2.3.9.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-765	The Fully Formatted/Book Version Printing functionality should provide a document printout or page-based viewer.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
BC-1-766	Beyond the printed technical data, the following additional information should be printed: Time/Date stamps, classified security marks, destruction notices, and destruction requirements.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-655</b>	<b>2.7 Special Content Category</b>	<b>A.5.2.3.10</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-791	The special Content Category is the inclusion of additional data types such as audio, motion video, animations, and digital photos in the IETM systems.		N/A	N/A	
<b>BC-1-604</b>	<b>2.7.1 Animation</b>	<b>A.5.2.3.10.2</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-768	The Animation functionality should provide graphical components movement to represent actual function.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-769	Animation should not be the primary instruction to perform the task, but should be a supplement to the narrative instruction.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-605</b>	<b>2.7.2 Audio</b>	<b>A.5.2.3.10.3</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-770	The Audio functionality should provide sounds to assist in diagnostic or notify user of an action.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-771	Audio should not be the primary instruction to perform the task, but should be a supplement to the narrative instruction.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-606</b>	<b>2.7.3 Motion Video</b>	<b>A.5.2.3.10.5</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-772	The Motion Video functionality should provide video clips to assist in the maintenance action.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-774	Motion video should not be the primary instruction to perform the task, but should be a supplement to the narrative instruction.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
<b>BC-1-607</b>	<b>2.7.4 Digital Photos</b>	<b>A.5.2.3.10.6</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-776	Digital Photos should be included to show a specific visual representation of actual systems.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-777	Photos should not be the primary instruction to perform the task, but should be a supplement to the narrative instruction.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
<b>BC-1-608</b>	<b>2.7.5 User Training</b>	<b>A.5.2.3.10.7</b>	<b>N/A</b>	<b>N/A</b>	
BC-1-778	User Training should include the integrating or linking maintenance and/or operational training on the use of the weapon system with the IETM.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	



ID	IETM Functionality	Reference	Proposal Compliance Method	Evaluation Point Allocation	Bidder's Response to the Rated Requirement
BC-1-611	2.7.6 Reset User Interface to Standard Default	A.5.2.3.10.11 para a.	N/A	N/A	
BC-1-779	A user should be able to reset the user interface back to the default, as defined upon normal start-up of the IETM for the first time.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-589	2.7.7 3D Modeling	A.5.2.3.6.1	N/A	N/A	
BC-1-780	Modeling of the system using three dimensional, solid object graphical figures should be used to allow virtual assembly, disassembly, removal, and installation of parts of system using animation, simulation and/or virtual reality concepts.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	
BC-1-657	2.8 Access Category	A.5.2.3.1	N/A	N/A	
BC-1-792	Access is the functionality that allows or restricts users to view specific IETM data.		N/A	N/A	
BC-1-577	2.8.1 Login	A.5.2.3.1.2	N/A	N/A	
BC-1-786	The login should be used to identify key information by the user and/or weapon system. A password for logon should be required.		POC	Full points will be awarded if it is demonstrated that the requirement is fully met, otherwise no points will be given.	

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BD – MISSION PROFILE

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Mission Profile

Appendix BD to  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

## **1 Appendix BD – Mission Profile**

### **Attachment BD-1 – Mission Profile**

**STANDARD MILITARY PATTERN (SMP)**  
**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

Request For Proposal  
W8476-06-MSMP/L

Part 7 – Resulting Contract - Acquisition

Annex B – Statement of Work

APPENDIX BD – Mission Profile

Attachment BD-1 – Mission Profile

## **1. System Description**

1.1 The MSVS SMP Vehicle System will be comprised of:

- 1.1.1 Cargo Variant;
- 1.1.2 Load Handling System Variant;
- 1.1.3 Cargo Variant with Crane;
- 1.1.4 Gun Tractor Variant;
- 1.1.5 Mobile Repair Truck (MRT);
- 1.1.6 Load Handling System Trailer; and
- 1.1.7 Interchangeable Armour Protection System (APS) Kit that can be installed on any vehicle as and when required.

## **2. Intended use**

2.1 The MSVS SMP Vehicle is intended for use worldwide to support preparation and conduct of all types of land based operations. These operations range from disaster relief to combat operations when the Canadian Forces, including Joint or Land forces are ordered to deploy to perform land based operations.

## **3. Missions**

The following missions describe the set of circumstances in which defence forces could expect to be used. The six missions are described in Capability Based Planning and are the basis for the development of plans. Their applicability to MSVS is summarized below.

The SMP MSVS is a key vehicle for all Regular Land Force units. It shall be usable in all missions.

### **3.1. Mission one**

3.1.1 Mission One includes the conduct of daily domestic and continental operations, including in the Arctic and through NORAD. The MSVS SMP will be used in providing assistance to authorities in the conduct of operations within their territory. The capability will enable the transport of troops and supplies to locations, including remote locations, via highways, secondary roads and improvised road such as (but not limited to) cut lines, fire road, trails, etc.

### **3.2 Mission Two**

3.2.1 Mission Two is the support of major international event in Canada, such as the 2010 Olympics. Within this scenario, the MSVS SMP will be used in providing assistance to authorities in supporting operation within their territory. The capability will enable the transport of troops and supplies to accessible and remote locations via highways, secondary roads improvised road such as (but not limited to) cut lines, fire road, trails, etc.

### **3.3 Mission Three**

3.3.1 Mission Three is the response to a major terrorist attack. Within this scenario, the MSVS SMP will be used in providing assistance to authorities in supporting the response to a terrorist attack within their territory. The capability will enable the transport of troops and supplies to accessible and remote locations via highways, secondary roads improvised road such as (but not limited to) cut lines, fire road, trails, etc.

### **3.4 Mission Four**

3.4.1 Mission Four is the support to civilian authorities during a crisis in Canada, such as a natural disaster. Within this scenario, the MSVS SMP will be used as a primary means of Land transportation by Regular Forces units to provide assistance to civil authorities in most disaster relief operations in Canada. The breadth of operations encompasses past events such as: Ice Storm, floods, forest fire, snow storms, etc, as well as contingency planning scenarios (earthquakes, chemical disaster, etc.).

### 3.5 Mission Five

3.5.1 Mission Five is the leading and/or conducting a major international operation for an extended period. The MSVS SMP will be deployed to Support Regular Forces Units in the conduct of the operations by transporting equipment and supplies on and off road.

### 3.6 Mission six

3.6.1 Mission Six is the deployment of forces in response to crisis elsewhere in the world for shorter periods. The MSVS SMP will be deployed to Support Regular Forces Units in the conduct of the operations by transporting equipment and supplies on and off road.

## 4. Geographical

- 4.1 The MSVS SMP shall perform all its functions with maximum gross loads, including a fully loaded trailer and with all attachments and equipment while maintaining the necessary stability, structural integrity, and operational capability. The MSVS SMP shall perform in the following operating conditions: Severe washboard surfaces and cross country conditions including but not limited to: Rocky surfaces; Plowed fields; Sand; Mud; Flooded terrain; Snow and Ice (including the use of tire chains); Trails; Cut Lines; Light Vegetation; Highway and Secondary roads.

## 5. Concept of Operations

- 5.1 The MSVS SMP shall support the preparation and conduct of land based operations world wide under all conditions when land forces are called to action. It shall be capable of effective, real time combat support and combat service support for all wheeled combat vehicle and supporting tracked vehicles in near real time.

## 6. Usage pattern

- 6.1 The MSVS SMP fleet is expected to be used an average of 5,000 kilometers per year, per vehicle. This usage is expected to take place 70% of the time on publicly maintained roads and the remainder on off roads conditions described above. Within the publicly maintained roads, approximately 30% of the total distance will be on paved surfaces, and the remainder will be gravel based and like substances. The table below lists activities that can take place during a mission. This table has been averaged over the life of the vehicle over all activities (operations, training, administrative function, etc) that can take place, using the requested reliability and dependability factors requested in the specifications.

Mission	Unit of Measure	Qty	Comments
a. Time	Duration in hours	10	
b. Length	Distance in kilometers	200	
c. Idling time	Hours	2	
d. Paved road	% of distance	20	Approx 100 km/h
e. Secondary road	% of distance	50	Approx 60 km/h
f. Trails	% of distance	25	Approx 20 km/h
g. X-Country	% of distance	5	Approx 3-5 km/h
h. Night driving	% of time	40	
i. Reverse gear	Times per mission	10	
j. Average speed	km/h	30	
k. Max speed	km/h	110	Dash or unsustained speed up to
l. Fording	Times per mission	1	

Mission	Unit of Measure	Qty	Comments
m. Trailer towing	% of time	30	
n. Shutdown / start	Times per mission	4	
o. Hard braking	Times per mission (deceleration of at least 3.5m/s <sup>2</sup> )	50	
p. Hard acceleration	Times per mission (acceleration of at least 1m/s <sup>2</sup> )	50	
q. Hard turns	Steering limiter hits per mission	75	
r. LHS load cycle	Times per mission	6.4	LHS vehicles only
s. Crane operation	Hour per mission	1	Vehicles with crane only
t. Crane operation	Cycles per mission	12	At maximum capacity
u. All Wheel Drive	Distance in meters per mission	20000	
v. Differentials locked (when applicable)	Distance in meters per mission	1000	
w. Self Recovery	Times per Mission	1	Vehicles with winch only
x. Self Recovery	Distance in Meters per event	100	Vehicles with winch only
y. Suspended tow	Times per Mission	.02	At GVW
z. Suspended tow	Distance in Kilometres per event	80	At GVW
aa. Driving with chains	Maximum occurrence per mission	2	Note: occurs in winter or marginal traction conditions.
ab. Driving with chains	Distance in Kilometres per event	50	Note: Speed reduced IAW OEM and chain manufacturer recommendations, typically in the 15-40 Km/h range.
ac. Camouflaging vehicle	Times per Mission	1	2 personnel climbing on vehicle
ad. Ferrying Ops	Times per year	2	

Table 1. MSVS SMP Duty Cycle

## 7. Unusual and severe conditions

7.1 Light vegetation is described as small trees/brush with a stem diameter less than or equal to 25 mm in diameter at breast height. Driving with tire chains may be required for off-road conditions or where extreme winter road conditions occur. Decision may also be made to use Tire Chains when operational requirement/necessity dictate, having due regard to safety and potential risk involved. Specific activities such as camouflaging vehicles occur more frequently during exercises.

## 8. Key Role

8.1 The MSVS SMP shall be the intrinsic medium weight/lift ground capability for land based units and formations.

## 9. Key Tasks

9.1 The MSVS SMP fleet shall be used for, but not limited to:

- 9.1.1 Transportation of cargo;
- 9.1.2 Transportation of Troops;
- 9.1.3 Integral support (1st line) resupply;
- 9.1.4 Close support resupply;
- 9.1.5 General support resupply;
- 9.1.6 The prime mover for Mobile Repair Team vehicles, equipped with crane and winch

- 9.1.7 The prime mover for ISO sized Special Equipment Vehicle Kits, within the rated capacity of the vehicle;
- 9.1.8 Towing the LHS trailer;
- 9.1.9 Towing of in-service trailers within the rated capacity of the vehicle; and
- 9.1.10 Towing of in-service guns within the rated capacity of the vehicle.

**10.0 Life Cycle**

- 10.1 The MSVS SMP expected average annual usage is 5,000 km.
- 10.2 The MSVS SMP expected lifetime usage is 100,000 km.
- 10.3 The MSVS SMP expected life is 20 yrs.



**STANDARD MILITARY PATTERN (SMP)**  
**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**Request For Proposal**  
**W8476-06-MSMP/L**

**Part 7 – Resulting Contract - Acquisition**

**Annex B – Statement of Work**

**APPENDIX BE – CONTRACT DATA (CDRL, DIDs)**

## **1. SCOPE**

- 1.1 This Appendix specifies the Deliverable Data required under the Statement of Work (SOW) and the delivery of the data items.
- 1.2 The Contract Data Requirements List (CDRL) specifies the Deliverable Data required, the Data Item Descriptions (DIDs) define data content, preparation instructions, format and intended use of the data, and the Integrated Information Environment (IIE) defines the delivery medium of the data items.
- 1.3 The CDRL is included at Attachment BE-1, the DIDs are included at Attachment BE-2.

## **2. CONTRACT DATA REQUIREMENTS LIST (CDRL)**

### **2.1 Precedence of CDRL**

The requirements stated in Blocks 8 through 12 of the CDRL take precedence over any such requirements that may have been identified in the DIDs.

### **2.2 CDRL Layout**

The following describes the layout and interpretation of the CDRL blocks.

- 2.2.1 Block 1A - CDRL Identification Number. Denotes the sequential alphanumerical number assigned to the CDRL item.
- 2.2.2 Block 1B - DID Identification Number. Denotes the DID number which describes the data to be submitted.
- 2.2.3 Block 2 – Title. Denotes the title of the Data Item and corresponds to the title used in the main body of the SOW.
- 2.2.4 Block 3 - SOW Reference. Denotes the specific section(s) of the SOW which request(s) the data or references the Data Item.
- 2.2.5 Block 4 - Office of Primary Interest. Denotes Canada's office responsible for review of the data to determine its adequacy.
- 2.2.6 Block 5 - Acceptance Code. Denotes whether the data is to be submitted for acceptance or review:
  - a. An "A" in Block 5 means that the deliverable shall be submitted for acceptance. The Contractor shall obtain this acceptance before using the delivered data. Acceptance by Canada indicates that the format, clarity and completeness of the deliverable is acceptable and the deliverable has met the intent of the requisite DID; and
  - b. An "R" in Block 5 means that the deliverable will be reviewed by Canada for acceptability of format, clarity and completeness. The data will be considered for information only.

- 2.2.7 Block 6 - Review Period. Denotes the number of calendar days that are required for Canada to approve or review the data item.
- 2.2.8 Block 7 – Frequency. Denotes the frequency of delivery of the data (see Block 9 for codes to be used).
- 2.2.9 Block 8 - First Submission. Specifies when the data shall first be submitted (to be read in conjunction with Block 9).
- 2.2.10 Block 9 - Subsequent Submission. Specifies the required submittal date(s) for any subsequent data deliveries if data is submitted more than once. Submission times may be expressed using the following codes:

ANNLY	Annually
ASGEN	As Generated
ASREQ	As Required
FDR	Final Design Review
FDA	Final Design Acceptance
MACA	Months After Contract Award
MAFDA	Months After Final Design Acceptance
MNTHY	Monthly
ONE/R	One Time, Revisions as Required
PDR	Preliminary Design Review
QRTLY	Quarterly (every 3 months)
R/ASR	Revisions as Required
SEMI	Semi-annually (every 6 months)
WKLY	Weekly

- 2.2.11 Block 10 - Distribution and Addressee.

CA	Contracting Authority
TA	Technical Authority
OPI	Office of Primary Interest

- 2.2.12 Block 11 - Media and Quantity. The media and the number of copies in which the data item is to be delivered. The following codes may be used:

EIE	Data is to be accessible through Electronic Information Environment (EIE).
x HC	Hard Copy
x SC	Soft Copy

The "x" represents the number of copies to be delivered.

- 2.2.13 Block 12 – Remarks. Contains additional or clarifying information for Blocks 1 through 11.

### **3. DATA ITEM DESCRIPTION (DID)**

#### **3.1 DID Layout**

The following describes the layout and interpretation of the DID Blocks:

- 3.1.1 Block 1 - Title. Denotes the title of the Data Item and correspond to the title used both in the main body of the SOW and in the CDRL.
- 3.1.2 Block 2 - Identification Number. Denotes the sequential alphanumerical number assigned to the DID.
- 3.1.3 Block 3 - Description. The description entry presents a concise description of the data content requirements and presents the purpose for which the data is required.
- 3.1.4 Block 4 – Approval Date. Not Used.
- 3.1.5 Block 5 - Office of Primary Interest. Denotes Canada's office responsible for specifying the data requirement.
- 3.1.6 Block 6 - GIDEP. Application Not Used.
- 3.1.7 Block 7 - Applications/Interrelationship. Denotes information assisting in the proper selection and application of the data item. Where appropriate, other data items that have a significant relationship with the Data Item and any special guidance are listed.
- 3.1.8 Block 8 - Originator. Denotes the designation of the DID originator.
- 3.1.9 Block 9 – Applicable Forms. Denotes any forms necessary in preparing the data requirement.
- 3.1.10 Block 10 - Preparation Instructions. Identifies the content and format requirements for data to be prepared.

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B – STATEMENT OF WORK

APPENDIX BE – CONTRACT DATA (CDRL, DIDs)

ATTACHMENT BE-1 – CONTRACT DATA REQUIREMENTS LIST (CDRL)

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Contract Data Requirements List

Attachment BE-1  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

## TABLE OF CONTENTS

PROJECT MANAGEMENT	4
SMP-PM-001 Project Management Plan (PMP)	4
SMP-PM-002 Progress Report	4
SMP-PM-003 Master Project Schedule (MPS)	4
SMP-PM-004 Meeting Agenda	5
SMP-PM-005 Meeting Minutes	5
SMP-PM-006 Risk Register	5
SMP-PM-007 Action Item Log	5
INTEGRATED LOGISTICS SUPPORT	6
SMP-IL-001 Integrated Logistic Support Plan (ILSP)	6
SMP-IL-002 Logistic Support Analysis Plan (LSA Plan)	6
SMP-IL-003 Candidate Item List (CIL)	6
SMP-IL-004 LSAR Data	7
SMP-IL-005 Supply Support Plan	7
SMP-IL-006 Provisioning Documentation	7
SMP-IL-007 Special Tools and Test Equipment List (STTEL)	8
SMP-IL-008 Supplementary Provisioning Technical Documentation (SPTD)	8
SMP-IL-009 Repair and Overhaul (R&O) Candidate Items List	8
SMP-IL-010 Materiel Change Notices (MCNs)	9
SMP-IL-011 Identification Plates	9
SMP-IL-012 Identification, Shipping and Packaging Data	9
SMP-IL-013 Technical Documentation Management Plan (TDMP)	10
SMP-IL-014 Operator Manual	10
SMP-IL-015 Interactive Electronic Technical Manual (IETM)	12
SMP-IL-016 Training Program Plan (TPP)	12
SMP-IL-017 Not Used	12
SMP-IL-018 ICT Pilot Course Material	13
SMP-IL-019 ICT Operator Instructor Course Material	13
SMP-IL-020 ICT Technician Instructor Course Material	13
SMP-IL-021 Training Resources List	14
SMP-IL-022 Delivery Plan	14
SMP-IL-023 Warranty Support Plan	14
SMP-IL-024 Environmental Health and Safety Impact Report	14
SMP-IL-025 Contractor Capability and Facility Survey	15

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Contract Data Requirements List

Attachment BE-1  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

SYSTEMS ENGINEERING	15
SMP-SE-001 Systems Engineering Management Plan	15
SMP-SE-002 First Production Article Test (FPAT) Report	15
SMP-SE-003 Quality Assurance Plan	16
SMP-SE-004 Configuration Management Plan	16
SMP-SE-005 Not Allocated	16
SMP-SE-006 Engineering Change Proposal	16
SMP-SE-007 Request for Deviation-Waiver	17
SMP-SE-008 Specification Change Notice	17
SMP-SE-009 Configuration Status Accounting Report	17
SMP-SE-010 Not Allocated	17
SMP-SE-011 Integrated Testing and Support Plan	18
SMP-SE-012 Painting and Corrosion Protection Plan	18
SMP-SE-013 Configuration Audit Report	18
SMP-SE-014 Quality Conformance Inspection Report	18
SMP-SE-015 Equivalence Justification Report	19
Industrial and Regional Benefits	19
SMP-IRB-001 Industrial and Regional Benefits (IRB) Annual Report	19
SMP-IRB-002 Tranche 2 of proposed IRB Transactions	19
SMP-IRB-003 Tranche 3 of proposed IRB Transactions	19

PROJECT MANAGEMENT											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-PM-001	SMP-PM-001	<b>Project Management Plan (PMP)</b>		PCO	A	30	ONE/R	See Block 12	R/ASR	TA, cc to CA	EIE 2HC
			12. REMARKS Block 8. Draft plan to be submitted with Bidder's proposal for evaluation purposes. DND comments will be presented at the Kick-Off meeting. Final plan to be submitted 1 MACA.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-PM-002	SMP-PM-002	<b>Progress Report</b>		PCO	R	30	QRTLY	2MACA	ASREQ	TA, cc to CA	EIE 2HC
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-PM-003	SMP-PM-003	<b>Master Project Schedule (MPS)</b>		PCO	A	15	See Block 12	See Block 12	ASREQ	TA, cc to CA	EIE 2HC
			12. REMARKS Block 8. Draft schedule to be submitted with Bidder's proposal for evaluation purposes. DND comments will be presented at the Kick-Off meeting. Final schedule to be submitted 1 MACA.  Block 7. Frequency will be monthly for the first year of the Contract, then subsequent submissions will be As Requested.								



1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-PM-004	SMP-PM-004	<b>Meeting Agenda</b>		PCO	A	See Block 12	ASREQ	See Block 12	See Block 12	CA, cc to TA	EIE 2HC
			12. REMARKS Blocks 6, 8 and 9. Meeting Agenda to be submitted for review no later than 10 working days prior to the meeting. Canada will return comments no later than 5 working days prior to the Meeting. Contractor to resubmit at least 2 working days prior to the meeting.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-PM-005	SMP-PM-005	<b>Meeting Minutes</b>		PCO	A	See Block 12	ASREQ	See Block 12	See Block 12	CA, cc to TA	EIE 2HC
			12. REMARKS Blocks 6, 8 and 9. Meeting Minutes to be submitted for review within 5 working days following each Meeting. Canada will provide comments within 5 working days of receipt. Revised Meeting Minutes addressing Canada's comments to be submitted for approval within 2 working days of receipt of comments.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-PM-006	SMP-PM-006	<b>Risk Register</b>		PCO	R	See Block 12	MTHLY	See Block 12	See Block 12	TA, cc to CA	EIE
			12. REMARKS Blocks 6, 8 and 9. The Risk Register to be updated no later than 5 working days prior to each Progress Review Meeting.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-PM-007	SMP-PM-007	<b>Action Item Log</b>		PCO	R	See Block 12	WKLY	See Block 12	See Block 12	TA, cc to CA	EIE
			12. REMARKS Blocks 6, 8 and 9. The Action Item Log to be updated weekly and provided at least 2 working days in advance of weekly teleconferences.								

INTEGRATED LOGISTICS SUPPORT											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-001	SMP-IL-001	<b>Integrated Logistic Support Plan (ILSP)</b>		ILSM	A	30	ONE/R	See Block 12	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS Block 8. Draft plan to be submitted with Bidder's proposal for evaluation purposes. DND comments will be presented at the Kick-Off meeting. Final plan to be submitted 1 MACA.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-002	SMP-IL-002	<b>Logistic Support Analysis Plan (LSA Plan)</b>		ILSM	A	30	ONE/R	2 MACA	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-003	SMP-IL-003	<b>Candidate Item List (CIL)</b>		ILSM	A	30	ONE/R	3 MACA	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS								

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-004	SMP-IL-004	<b>LSAR Data</b>		ILSM	A	30	ASREQ	ASREQ	ASREQ	TA, cc to CA	EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-005	SMP-IL-005	<b>Supply Support Plan</b>		ILSM	A	30	ONE/R	2 MACA	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-006	SMP-IL-006	<b>Provisioning Documentation</b>		ILSM	A	30	ONE/R	See Block 12	See Block 12	TA, cc to CA	2HC EIE
			12. REMARKS Block 8. A Initial Provisioning Spares List (ISL) should be with the bid. Draft Provisioning Documentation shall be delivered at 1 MACA in preparation for the Preliminary IPC. Block 9. Complete Provisioning Documentation shall be delivered 1 MAFDA.  Revisions to the Provisioning Documentation shall be reviewed during the Initial Provisioning Conferences (IPCs). Revisions shall be submitted 15 days after IPC. Subsequent revisions shall be submitted ASREQ.								

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- IL-007	SMP- IL-007	<b>Special Tools and Test Equipment List (STTEL)</b>		ILSM	A	30	ONE/R	See Block 12	See Block 12	TA, cc to CA	2HC EIE
			12. REMARKS Block 8. Draft STTEL shall be submitted with Bidder's proposal for evaluation purposes. Final STTEL shall be delivered 1 MAFDA. Block 9. Revisions to the STTEL shall be reviewed during the Final IPC. Revisions shall be submitted 15 days after IPC. Subsequent revisions shall be submitted ASREQ.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- IL-008	SMP- IL-008	<b>Supplementary Provisioning Technical Documentation (SPTD)</b>		ILSM	A	30	ONE/R	See Block 12	See Block 12	TA, cc to CA	2HC EIE
			12. REMARKS Block 8. The SPTD shall be delivered 1 MAFDA.  Block 9. Revisions to the SPTD shall be reviewed during the Final IPC. Revisions shall be submitted 15 days after IPC. Subsequent revisions shall be submitted ASREQ.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- IL-009	SMP- IL-009	<b>Repair and Overhaul (R&amp;O) Candidate Items List</b>		ILSM	A	30	ONE/R	See Block 12	See Block 12	TA, cc to CA	2HC EIE

			12. REMARKS Block 8. Repair & Overhaul Candidate Item List shall be delivered 1 MAFDA.  Block 9. Revisions to the Repair & Overhaul Candidate Items List shall be reviewed during the IPC. Revisions shall be submitted 15 Days after IPC. Subsequent revisions shall be submitted ASREQ.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-010	SMP-IL-010	<b>Materiel Change Notices (MCNs)</b>		ILSM	A	30	ASGEN	ASGEN	ASGEN	TA, cc to CA	2HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-011	SMP-IL-011	<b>Identification Plates</b>		ILSM	A	30	ONE/R	See Block 12	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS Block 8. : Identification Plates sample and drawing shall be delivered for review and acceptance with provisioning documentation (draft at 1 MACA and Final at 1 MAFDA).								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-012	SMP-IL-012	<b>Identification, Shipping and Packaging Data</b>		ILSM	A	30	ONE/R	See Block 12	See Block 12	TA, cc to CA	2HC EIE

			12. REMARKS Block 8. Packaging Data shall be delivered 1 MAFDA.  Block 9. Revisions to the Packaging Data shall be reviewed during the Final IPC. Revisions shall be submitted 15 Days after IPC. Subsequent revisions shall be submitted ASREQ.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-013	SMP-IL-013	<b>Technical Documentation Management Plan (TDMP)</b>		ILSM	A	30	ONE/R	2 MACA	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-014	SMP-IL-014	<b>Operator Manual</b>		ILSM	A	30	ONE/R	See Block 12	See Block 12	TA, cc to CA	See Block 12

			<p>12. REMARKS</p> <p>Block 8. The English Draft Copy shall be submitted 14 days after FDA.</p> <p>Block 9. The English Master Copy, addressing comments from Canada shall be submitted 30 days after first draft was submitted, 44 days after FDA.. The French draft copy shall be submitted 60 days after the English Master Copy is accepted. The French Master copy shall be submitted 30 days after first French draft was submitted, 90 days after the English Master Copy is accepted.</p> <p>Both the English and the French copy shall be in the Vehicle at the time of delivery, including the militarized supplement.</p> <p>Revisions of Operator Manual shall be IAW Annex B.</p> <p>Block 11. Media and QTY: 2 HC, EIE, and one hard copy with each Vehicle.</p>
--	--	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-015	SMP-IL-015	<b>Interactive Electronic Technical Manual (IETM)</b>		ILSM	A	See Block 12	ONE/R	See Block 12	See Block 12	TA, cc to CA	2 SC
			12. REMARKS Block 6. Review period will be 30 days, except for French master copy where review time will be 15 days.  Block 8. The English Draft Copy shall be submitted 30 days after FDA.  Block 9. The English Master Copy, addressing comments from Canada, shall be submitted 45 days after first draft was submitted, 75 days after FDA. The French draft copy shall be submitted for review and acceptance no later than 60 days after the English Master Copy accepted. The French Master copy shall be submitted for review and acceptance no later than 45 days after the first French draft was submitted.  Revisions of IETM shall be IAW Annex B.  Final Copy: Both the English and French Final Copy shall be submitted at the time of first Vehicle, APS or Trailer delivery.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-016	SMP-IL-016	<b>Training Program Plan (TPP)</b>		ILSM	A	30	ONE/R	1 MACA	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-017	SMP-IL-017	<b>Not Used</b>									
			12. REMARKS								



1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-018	SMP-IL-018	<b>ICT Pilot Course Material</b>		ILSM	A	20	ONE/R	See Block 12	See block 12	TA, cc to CA	See Block 12
			12. REMARKS Block 8. Draft ICT Pilot Course material (Soft Copy) shall be submitted 2 months before ICT Pilot course for review Block 9. Pilot course material shall be provided on the first day of ICT Pilot Course Block 11. 2HC, EIE, and each student HC								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-019	SMP-IL-019	<b>ICT Operator Instructor Course Material</b>		ILSM	A	20	ONE/R	See Block 12	R/ASR	TA, cc to CA	See Block 12
			12. REMARKS Block 8. Draft ICT Operator Instructor Course Material (Soft Copy) shall be submitted 1 month after ICT Pilot course for review Block 9. ICT Operator Instructor Course Material shall be provided on the first day of ICT Operator Instructor Course in language of the serial. Block 11. 2HC, EIE, and each student HC and SC								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-020	SMP-IL-020	<b>ICT Technician Instructor Course Material</b>		ILSM	A	20	ONE/R	See Block 12	R/ASR	TA, cc to CA	See Block 12
			12. REMARKS Block 8. Draft ICT Technician Instructor Course Material (Soft Copy) shall be submitted 1 month after ICT Pilot course for review Block 9. ICT Technician Instructor Course Material shall be provided on the first day of ICT Technician Instructor Course in language of the serial. Block 11. 2HC, EIE, and each student HC and SC								

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-021	SMP-IL-021	<b>Training Resources List</b>		ILSM	A	30	ONE/R	6 MACA	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-022	SMP-IL-022	<b>Delivery Plan</b>		ILSM	A	5	BI-WK	See Block 12	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS Block 8. Draft Delivery plan shall be submitted 3 MACA, Final Delivery Plan at 1 MAFDA.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-023	SMP-IL-023	<b>Warranty Support Plan</b>		ILSM	A	30	ONE/R	See Block 12	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS Block 8. Warranty Plan shall be submitted 3 MACA.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-024	SMP-IL-024	<b>Environmental Health and Safety Impact Report</b>		ILSM	A	60	ONE/R	See Block 12	R/ASR	TA, cc to CA	2HC EIE
			12. REMARKS Block 8. 1) All MSDS for the Cargo Mobile Repair Truck (MRT) variant, as required in DID SMP-IL-024, Part II, paras 10.2.3.1, 10.2.3.3, Annexes B and E, to be submitted with the Bidder's proposal for evaluation purposes. 2) Draft EHSIR with MSDS for all products and materials, to be submitted for review by Canada 2 MACA. 3) Final EHSIR to be submitted for review to Canada 7 MACA.								

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IL-025	SMP-IL-025	<b>Contractor Capability and Facility Survey</b>		ILSM	A	30	ONE/R	See Block 12	R/ASR	TA, cc to CA	2HC EIE
12. REMARKS Block 8. Contractor Capability and Facility Survey to be submitted with Bidder's proposal for evaluation purposes. DND comments will be presented at the Kick-Off meeting. Final Contractor Capability and Facility Survey to be submitted 1 MACA.											
<b>SYSTEMS ENGINEERING</b>											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-001	SMP-SE-001	<b>Systems Engineering Management Plan</b>		SEM	A	30	ONE/R	See Block 12	R/ASR	TA, cc to CA	3HC EIE
12. REMARKS Block 8: Draft to be submitted with Bid for Bid Evaluation. DND comments will be presented at kick-off meeting. Final to be submitted 1 MACA.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-002	SMP-SE-002	<b>First Production Article Test (FPAT) Report</b>		SEM	A	10	ONE/R	1 MA FPAT TESTING	R/ASR	TA, cc to CA	3HC EIE
12. REMARKS											

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- SE-003	SMP- SE-003	<b>Quality Assurance Plan</b>		SEM	A	90	ONE/R	See Block 12	R/ASR	TA, cc to CA	3HC EIE
			12. REMARKS  Block 8: Draft to be submitted with Bid for Bid Evaluation. DND comments will be presented at kick-off meeting. Final to be submitted 3 MACA.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- SE-004	SMP- SE-004	<b>Configuration Management Plan</b>		SEM	A	15	ONE/R	1 MACA		TA, cc to CA	3HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- SE-005	SMP- SE-005	<b>Not Allocated</b>									
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- SE-006	SMP- SE-006	<b>Engineering Change Proposal</b>		SEM	A	See Block 12	ASGEN	ASGEN	R/ASR	TA, cc to CA	3HC EIE
			12. REMARKS Block 6. Technical Approval or Rejection of Engineering Change Proposals (ECPs) shall be given within the following requirements:  a. Emergency ECP: 48 hours; b. Urgent ECP: 30 days; and c. Routine ECP: 90 days								

Medium Support Vehicle System  
Standard Military Pattern  
Acquisition Contract Clauses  
Statement of Work  
Contract Data Requirements List

Attachment BE-1  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-007	SMP-SE-007	<b>Request for Deviation-Waiver</b>		SEM	A	10	ASGEN	ASGEN	R/ASR	TA, cc to CA	3HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-008	SMP-SE-008	<b>Specification Change Notice</b>		SEM	A	10	ASGEN	ASGEN	R/ASR	TA, cc to CA	3HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-009	SMP-SE-009	<b>Configuration Status Accounting Report</b>		SEM	R	15	QRTLY	30 DA FDA	R/ASR	TA, cc to CA	3HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-010	SMP-SE-010	<b>Not Allocated</b>									
			12. REMARKS								

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-011	SMP-SE-011	<b>Integrated Testing and Support Plan</b>		SEM	A	15	ONE/R	See Block 12	R/ASR	TA, cc to CA	3HC EIE
			12. REMARKS Block 8: Draft to be submitted with Bid for Bid Evaluation. DND comments will be presented at kick-off meeting. Final to be submitted 6 MACA.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-012	SMP-SE-012	<b>Painting and Corrosion Protection Plan</b>		SEM	A	15	ONE/R	7 MACA	R/ASR	TA, cc to CA	3HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-013	SMP-SE-013	<b>Configuration Audit Report</b>		SEM	R	30	ASREQ	15 DAY AFTER AUDIT	R/ASR	TA, cc to CA	3HC EIE
			12. REMARKS								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-014	SMP-SE-014	<b>Quality Conformance Testing Report</b>		SEM	R	15	ASGEN	7 DAYS AFTER QCT	R/ASR	TA, cc to CA	3HC 2SC
			12. REMARKS								

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-SE-015	SMP-SE-015	<b>Equivalence Justification Report</b>		SEM	A	15	ASGEN	ASGEN	R/ASR	TA, cc to CA	3HC 2SC
12. REMARKS Block 5: Approval/ Rejection of contents/format is 2 weeks.											

**Industrial and Regional Benefits**

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-IRB-001	SMP-IRB-001	<b>Industrial and Regional Benefits (IRB) Annual Report</b>		IC	R	120 days	ANNLY	See Block 12	R/ASR	CA & IRB Authority	
			Annex F								
		12. REMARKS Block 8. Sixty (60) calendar days after the end of the annual IRB Reporting Period.									
SMP-IRB-002	SMP-IRB-002	<b>Tranche 2 of proposed IRB Transactions</b>		IC	R		ONE/R	12 MACA	R/ASR	CA and IRB Authority	
			Annex F								
											2HC/2SC
SMP-IRB-003	SMP-IRB-003	<b>Tranche 3 of proposed IRB Transactions</b>		IC	R		ONE/R	36 MACA	R/ASR	CA and IRB Authority	
			Annex F								
											2HC/2SC

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B – STATEMENT OF WORK

APPENDIX BE – CONTRACT DATA (CDRL, DIDs)

ATTACHMENT BE-2 – DATA ITEM DESCRIPTIONS (DIDs)



Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

## **TABLE OF CONTENTS**

PROJECT MANAGEMENT	5
DID SMP-PM-001 Project Management Plan	6
DID SMP-PM-002 Progress Report	9
DID SMP-PM-003 Master Project Schedule	10
DID SMP-PM-004 Meeting Agenda	12
DID SMP-PM-005 Meeting Minutes	13
DID SMP-PM-006 Risk Register	14
DID SMP-PM-007 Action Item Log	15
INTEGRATED LOGISTICS SUPPORT	16
DID SMP-IL-001 Integrated Logistic Support Plan	17
DID SMP-IL-002 Logistic Support Analysis Plan (LSA Plan)	19
DID SMP-IL-003 LSA Candidate Items List	21
DID SMP-IL-004 LSAR Data	23
DID SMP-IL-005 Supply Support Plan	58
DID SMP-IL-006 Provisioning Documentation	60
DID SMP-IL-007 Special Tools And Test Equipment List	62
DID SMP-IL-008 Supplementary Provisioning Technical Documentation	64
DID SMP-IL-009 Repair and Overhaul Candidate Items List (ROCIL)	66
DID SMP-IL-010 Materiel Change Notices	67
DID SMP-IL-011 Identification Plates	68
DID SMP-IL-012 Identification, Shipping and Packaging Data	69
DID SMP-IL-013 Technical Documentation Management Plan	72
DID SMP-IL-014 Operator Manual	74
DID SMP-IL-015 Interactive Electronic Technical Manual	76
DID SMP-IL-016 Training Program Plan	77
DID SMP-IL-017 Not Used	79
DID SMP-IL-018 Initial Cadre Training Pilot Course Material	80
DID SMP-IL-019 ICT Operator Instructor Course Material	81
DID SMP-IL-020 ICT Technician Instructor Course Material	82
DID SMP-IL-021 Training Resource List	83
DID SMP-IL-022 Delivery Plan	85
DID SMP-IL-023 Warranty Support Plan	86
DID SMP-IL-024 Environmental, Health and Safety Impact Report	88
DID SMP-IL-025 Contractor Capability and Facility Survey	104
SYSTEMS ENGINEERING	107
DID SMP-SE-001 Systems Engineering Management Plan	108
DID SMP-SE-002 First Production Article Testing Report	111
DID SMP-SE-003 Quality Assurance Plan	113
DID SMP-SE-004 Configuration Management Plan	115
DID SMP-SE-005 Not Allocated	117
DID SMP-SE-006 Engineering Change Proposal	118
DID SMP-SE-007 Request for Deviation/Request for Waiver	127
RFD/RFW Template	130
DID SMP-SE-008 Specification Change Notice	132
DID SMP-SE-009 Configuration Status Accounting Report	133
DID SMP-SE-010 NOT ALLOCATED	134
DID SMP-SE-011 Integrated Testing and Support Plan	135
DID SMP-SE-012 Painting and Corrosion Protection Plan	137
DID SMP-SE-013 Configuration Audit Report (CAR)	139
DID SMP-SE-014 Quality Conformance Testing Report	140
DID SMP-SE-015 Equivalence Justification Report	141
DID SMP-IRB-001 Industrial and Regional Benefits (IRB) Report	143

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

DID SMP-IRB-002	Tranche 2 of Proposed IRB Transactions	145
DID SMP-IRB-003	Tranche 3 of Proposed IRB Transactions	146

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

## **PROJECT MANAGEMENT**

**DID SMP-PM-001 Project Management Plan**

<b>1. TITLE</b> Project Management Plan (PMP)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-PM-001	
<b>3. DESCRIPTION/PURPOSE</b> The Project Management Plan (PMP) describes the Contractor's plan for integrating all management, planning and control activities for the contract.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS PCO		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS PCO		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The PMP shall be prepared in the Contractor's format and shall address, as a minimum, the following areas. 10.1.1. Overview <ul style="list-style-type: none"> <li>a. Purpose, Background, Scope and Objectives;</li> <li>b. Assumptions, Constraints and Risks;</li> <li>c. Project Deliverables;</li> <li>d. Organization Summary; and</li> <li>e. Schedule Summary.</li> </ul> 10.1.2. Organization <ul style="list-style-type: none"> <li>a. Project Management Organizational Chart, including internal and external organizations as it pertains to this contract;</li> <li>b. Roles and Responsibilities, including internal and external organizations;</li> <li>c. Escalating Lines of Communication;</li> <li>d. Description of Project Management Organization type; and</li> </ul> 10.1.3. Management Processes <ul style="list-style-type: none"> <li>a. Project Management Approach and Procedures; Describing the policies, processes, procedures and systems to manage and control the Work of the Contract and how the processes and systems shall be used to achieve the Work defined in this Contract;</li> </ul>			

- b. Scope Management: Describing how the Contractor's organization, processes and procedures address and integrate the Work;
- c. Integration Management: describing how the Contractor will co-ordinate & manage the activities of the SMP Acquisition and In-Service Support Contracts;
- d. Subcontractor Management: Describing the Contractor's approach to subcontract and vendor management. It shall include the suppliers':
  - (i) identification with a description of relationship, responsibilities and Tier level;
  - (ii) project organization relationships and responsibilities associated to the WBS and the SOW related to this contract;
  - (iii) flow down provisions of the project requirements;
  - (iv) integration of management information with the Contractor's management control system;
  - (vi) policies and procedures applicable to changes, termination, transition, completion and management of contractual agreements;
  - (vii) security accreditation status and management process (in accordance with Part # of the Contract);
  - (viii) process to access Subcontractor's and vendors work and data; and
  - (ix) management of Government Property including Government Supplied Material, Government Furnished Information and Government Furnished Equipment;
- e. Schedule Management and Control, describing the procedures the Contractor will use to baseline, track and maintain the schedule that includes, as a minimum:
  - (i) Processes for tracking tasks against the project schedule baseline to identify slippage;
  - (ii) Processes specific to critical path items;
  - (iii) Processes for updating and communicating schedule changes; and
  - (iv) Processes to assess schedule impact of new tasks.
- f. Resource Allocation;
- g. Budget Control;
- h. Quality Management;
- i. Performance Monitoring;
- j. Progress Reporting;
- k. Communications;
- l. Problem Identification and Resolution;
- m. Project Work Tasks/Elements Closing;
- n. Process Auditing & Improvement;
- o. Risk Management, describing how the Contractor will implement a Risk Management system that will systematically and continuously manage items that are considered to be of a high-risk nature that includes, as a minimum:
  - (i) The methodology for risk identification;
  - (ii) The procedures and systems for assessing and monitoring risks;
  - (iii) The system for resolving risk situations including risk mitigation strategy; and
  - (iv) The contingency measures in the event that the intended risk mitigation strategies are unsuccessful.
  - (v) The system for reporting of risk situations.
- p. Data Management: Describing how the Contractor will manage all data required under the Contract to ensure accuracy, currency and availability for information access and data delivery including:
  - (i) Data Management Organization, and its relationship with the Configuration

Management, Information Management and the Technical Data Management organizations;

(ii) Control procedures and their relationships to Intellectual Property, data distribution, data access, safeguards and disaster recovery;

(iii) Subcontractor control and their relationship to Intellectual Property (IP) and IP Rights;

(iv) Storage and retrieval; and the relationship to business continuity for the ISS Life Cycle; and

(v) Compliance with the Electronic Information Environment (EIE) requirements of the ISS SOW.

q. Change Control Processes: Describing the process for managing changes in the Contract, configuration items, data, information access and deliverables. The process shall include the reporting of change status at Progress Review Meetings (PRM), and through the EIE;

r. Action Item Management; and

s. Earned Value Reporting.

### DID SMP-PM-002 Progress Report

<b>1. TITLE</b> Progress Report		<b>2. IDENTIFICATION NUMBER</b> DID SMP-PM-002	
<b>3. DESCRIPTION/PURPOSE</b> The Progress Report summarizes the Contractor's progress in relation to the project milestones, schedules, plans and deliverable end items. It provides the status of the work achieved versus that planned, highlights problem areas and the corrective actions being taken to resolve the issues.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS PCO		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR:</b> MSVS PCO		<b>9. APPLICABLE FORMS:</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The Progress Report shall be prepared in the Contractor's format and shall include the following information: 10.1.1 Executive summary covering significant elements ; 10.1.2 Description of progress to the Project Master Schedule with concise explanation of any discrepancies; 10.1.3 Identification/update of medium and high risks including risks that have materialized and actions taken thereof; 10.1.4 Progress against milestones, expected date of completion of near milestones, problem areas and work around plans where required; 10.1.5 Progress for major subcontracts; 10.1.6 Production status against each major deliverable, the time phase of significant stages of production and the time phase of testing, verification, demonstration and acceptance activities requiring DND participation; 10.1.7 Status of data deliverables as called up in CDRL; 10.1.8 Status of CCPs, ECPs, SCNs, Deviation and Waiver requests; 10.1.9 Outstanding action items; 10.1.10 New problems/issues and any other areas of concern, interest or importance; 10.1.11 Overall financial review; 10.1.12 Planned activities for the following reporting period; 10.1.13 Schedule Performance Index; and 10.1.14 Cost Performance Index.			



### DID SMP-PM-003 Master Project Schedule

<b>1. TITLE</b> Master Project Schedule (MPS)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-PM-003	
<b>3. DESCRIPTION/PURPOSE</b> The Master Project Schedule (MPS) contains the Work Breakdown Structure (WBS) and details the scope of work, activity definition, activity sequencing, activity duration, dependencies, schedule of all events against a calendar time base, milestones and all WBS elements as per the requirements of the Contract. The MPS details all activities covering the complete duration of the Contract. The MPS updates further provide Canada with the visibility of accomplishments to date.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS PCO		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP :</b> Annex B			
<b>8. ORIGINATOR</b> MSVS PCO		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. The Master Project Schedule (MPS) shall depict the entire scope of the project, including milestones, major events and major deliverables for the duration of the contract. The MPS shall detail the schedule of all events against a calendar time base, milestones and all WBS activities that must occur to meet the objectives and requirements of the contract.</p> <p>10.2 The MPS shall clearly depict:</p> <p>10.2.1 The sequence, duration and completion dates of all deliverable items;</p> <p>10.2.2 Project tasks down to the work package level;</p> <p>10.2.3 Project milestones; and</p> <p>10.3. The MPS shall include, as required, all progress review meetings, design review meetings, Contractor demonstrations, testing, inspections, deliverable preparation time frames, installation activities, training activities, as well as acceptance and hand over activities.</p> <p>10.4. Specifically, the MPS shall reflect the schedule constraints identified throughout Part 7, Annex B and the delivery constraints identified in particular at Part 7, Annex B, Article 5.9. Note that Part 7, Annex B, Appendix BJ provides a depiction of both the schedule and delivery constraints. For clarity, the MPS shall reflect the Contractor's proposed:</p> <p>10.4.1 Date that the Contractor can deliver the Test Articles for the start of APS Survivability Testing, which must be no earlier than 3 MACA and no later than 6 MACA;</p> <p>10.4.2 Date that the Contractor can commence Delivery, which must be no earlier than 3 MAFDA and no later than 6 MAFDA;</p> <p>10.4.3 The Delivery period which must be no less than 12 months and no more than 18 months, and all deliveries must be complete no later than 41 MACA. .</p> <p>10.5 The MPS shall clearly portray the inter-dependencies among all PM, ILS and SEM tasks, events,</p>			

activities and deliverables.

10.6 The requirements for delivery or preparation of GSM, GFE, and GFI, including equipment and facilities, shall be clearly indicated.

10.7 The MPS shall clearly portray progress against a baseline. Updates to the MPS shall clearly indicate actual progress to a specific date against the schedule baseline, and changes in activity.

10.8 The MPS shall clearly show a "Time Now" line, which indicates the point in time at which the schedule status pertains.

10.9 The critical path shall be clearly identified.

**DID SMP-PM-004 Meeting Agenda**

<b>1. TITLE</b> Meeting Agenda		<b>2. IDENTIFICATION NUMBER</b> DID SMP-PM-004	
<b>3. DESCRIPTION/PURPOSE</b> Meeting Agendas provide an outline of the purpose, objectives and areas to be formally discussed at meetings.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS PCO		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS PCO		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. Meeting Agendas shall be prepared in the Contractor's format. 10.2. Meeting Agendas shall include, as a minimum, the following: 10.2.1 Meeting venue, date, time, location and attendees; 10.2.2 Scope, purpose and objectives of the meeting; 10.2.3 Contractor's Presentations as an attachment to the agenda; 10.2.4 Topics for discussion; and 10.2.5 Need for any Government/Contractor documentation to be presented at the meeting.			

**DID SMP-PM-005 Meeting Minutes**

<b>1. TITLE</b> Meeting Minutes		<b>2. IDENTIFICATION NUMBER</b> DID SMP-PM-005	
<b>3. DESCRIPTION/PURPOSE</b> Meeting Minutes record significant discussion and document decisions taken at meetings.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS PCO		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS PCO		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. Meeting Minutes shall be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, shall become the standard for future submissions.</p> <p>10.2. Meeting Minutes shall include, as a minimum, the following:</p> <p>10.2.1 List of all attendees detailing title and contact information;</p> <p>10.2.2 Record of discussion of all items tabled;</p> <p>10.2.3 Record of decisions taken;</p> <p>10.2.4 Action item responsibility;</p> <p>10.2.5 Target date of completion of action items;</p> <p>10.2.6 Proposed date, time and location of next meeting;</p> <p>10.2.7 Signature blocks for both Contractor and Canada responsible representatives; and</p> <p>10.2.8 Copies of all data and information tabled at the meeting.</p> <p>10.3 Meeting Minutes shall include a disclaimer that the minutes are a record of discussions only and do not constitute approval for contractual changes.</p>			

**DID SMP-PM-006 Risk Register**

<b>1. TITLE</b> Risk Register		<b>2. IDENTIFICATION NUMBER</b> DID SMP-PM-006	
<b>3. DESCRIPTION/PURPOSE</b> The Risk Register documents identified risks and is used for monitoring and controlling project events that could affect the achievement of project objectives.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS PCO		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS PCO		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The Risk Register shall be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, shall become the standard. 10.2 The Risk Register shall capture and rank the risks in order of severity and shall include, as a minimum: 10.2.1 Name and Description of the risk including Risk Statement and cause and effect; 10.2.2 Impact, Likelihood and Severity; 10.2.3 Timeframe in which the risk is expected to occur; 10.2.4 Risk response and mitigation strategies including contingency measures with regards to the Risk Area (Scope, Cost, Schedule), if the risks were to occur; 10.2.5 Residual Risk severity assessment; and 10.2.6 Risk Identification Number.			

**DID SMP-PM-007 Action Item Log**

<b>1. TITLE</b> Action Item Log		<b>2. IDENTIFICATION NUMBER</b> DID SMP-PM-007	
<b>3. DESCRIPTION/PURPOSE</b> The Action Item Log consists of itemized, dated and up-to-date records of all Contractor and Canada action items.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS PCO		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS PCO		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. The Action Item Log shall be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, shall become the standard.</p> <p>10.2 The Action Item Log shall contain the itemized records of action items and shall include, as a minimum:</p> <p>10.2.1 Identification number;</p> <p>10.2.2 Priority of the action item;</p> <p>10.2.3 Action item description;</p> <p>10.2.4 References to documents, minutes, reports or activity;</p> <p>10.2.5 Date opened;</p> <p>10.2.6 Action addressee;</p> <p>10.2.7 Status;</p> <p>10.2.8 Target date for completion and actual date closed;</p> <p>10.2.9 Impact of any action items behind scheduled completion date; and</p> <p>10.2.10 Resolution.</p>			

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

## **INTEGRATED LOGISTICS SUPPORT**

**DID SMP-IL-001 Integrated Logistic Support Plan**

<b>1. TITLE</b> Integrated Logistic Support Plan (ILSP)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-001	
<b>3. DESCRIPTION/PURPOSE</b> The ILSP describes the Contractor's ILS Program management, organisation, tasks, schedule and reporting system. The ILSP serves as the principal management and planning document for execution of the ILS program.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM	<b>6. GIDEP APPLICATION</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. Best commercial practices should be used for charts, tables, matrices, page numbering and document control numbering.</p> <p>10.2. The Integrated Logistic Support Plan shall be prepared in the Contractor's format and shall consist as a minimum of the following sections:</p> <p>10.2.1 Title Page;</p> <p>10.2.2 Table of Contents;</p> <p>10.2.3 Document Control Log;</p> <p>10.2.4 Revision Record;</p> <p>10.2.5 Plan Subject Matter;</p> <p>10.2.6 Notes; and</p> <p>10.2.7 Appendices.</p> <p>10.3 The Integrated Logistic Support Plan shall address the methodology for accomplishing all ILS program tasks contained in Annex B.</p> <p>10.4 The Plan Subject Matter shall be broken down into the following sections:</p> <p>10.4.1 <u>Section I - Introduction</u>. This section shall define the scope, purpose and application of the ILSP, related documents and mechanism to amend the plan.</p> <p>10.4.2 <u>Section II - Management/Organisation</u>. The IS Plan shall include the Contractor's ILS organization and major ILS subcontractors. It shall include a description of the operation of the ILS organization, as well as specifics on management procedures, interfaces and reporting/tracking systems for control of ILS Activities. The Contractor's ILS Manager and logistic</p>			



element managers should be identified by name in an ILS Organisation Chart.

- 10.4.3 Section III - WBS/Schedule of Activities and Milestones. This section shall include summary tasks and milestone events extracted from the Master Project Schedule and Work Breakdown Structure (CDRL SMP-PM-003 and DID SMP-PM-003) to show the time-phased workflow of the ILS tasks, events, deliverables, as well as key inter-dependencies from non-ILS areas.
- 10.4.4 Section IV - Relationships. This section shall describe the following relationships:
- Between the various ILS elements;
  - Between the ILS and the Engineering program; and
  - Between the ILS program and other project programs.
- 10.4.5 Section V - Contractor Support for the Vehicle, APS and Trailer and their associated equipment. This section shall provide detailed overview of the support and support processes to be provided by the Contractor and any subcontractors. As a minimum an overview of current and foreseen business processes for the following subjects shall be addressed:
- LSA;
  - Supply support;
  - Special Tools and Test Equipment;
  - Technical Publications;
  - Training support;
  - Warranty support;
  - Fielding; and
  - EHS Management.
- 10.4.6. Section VI- Supportability Engineering. This section shall detail existing support resources and capabilities possessed by the Contractor and any subcontractors. As a minimum the following subjects shall be addressed:
- how the Contractor intends to ensure that the systems being designed are supportable.
  - the processes in place that allows ILS and System Engineering to actively engage to achieve a balance between performance, long term support, and cost of ownership.
  - the processes followed in developing strategies to reduce supportability cost via COTS/MOTS, modularity, NDI, special tools and support equipment.

**DID SMP-IL-002 Logistic Support Analysis Plan (LSA Plan)**

<b>1. TITLE</b> Logistic Support Analysis Plan (LSA Plan)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-002	
<b>3. DESCRIPTION/PURPOSE</b> The LSA Plan describes the Contractor's approach to LSA management, procedures, processes and schedules. The plan identifies and integrates all LSA tasks specified in the SOW, and outlines the approach toward accomplishing analysis task. The LSA Plan is used as the principle reference for the management and control of LSA tasks.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B, DEF STAN 00-60, Mil-STD-1388-2B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. Best commercial practices should be used for charts, tables, matrices, page numbering and document control numbering. 10.2. The LSA Plan shall be prepared in the Contractor's format and shall consist as a minimum of the following sections: 10.2.1 Title Page; 10.2.2 Table of Contents; 10.2.3 Document Control Log; 10.2.4 Revision Record; 10.2.5 Plan Subject Matter; 10.2.6 Notes; and 10.2.7 Appendices. 10.3 The LSA Plan shall describe how the LSA program will be conducted to meet the ILS requirements. As a minimum the following sections shall be included: 10.3.1. <u>Section I – Introduction</u> . A description of the management structure and authorities applicable to LSA shall be discussed. This includes the interrelationship between line, service, staff and policy organizations. Specific references to the relationship between LSA staff, the Logistics Engineering staff, and the Systems Engineering staff. 10.3.2. <u>Section II – LSA Process</u> . This section shall describe how the LSA program will be conducted to meet the system and logistic requirements of the program. Included will be an explanation of			

which processes will be used from the Effective Date of Contract until the final delivery of the LSAR database. This will include, but not be limited to, the LSA reviews, the flow of information to the various ILS elements, and the processes for feedback from various ILS elements. As a minimum, the following sub-sections shall be included in the LSA Plan:

- a. Identification of each LSA task that will be accomplished, how each will be performed and when each will be performed to support the ILS program.
- b. A description of how LSA tasks and data will interface with other ILS and system oriented tasks and data:
  - (i) Initial Provisioning Program;
  - (ii) PHST;
  - (iii) Special Tools and Test Equipment (STTE);
  - (iv) Technical publication program; and
  - (v) Training and training equipment.
- c. Procedures to evaluate the status and control of each task and identification of the organizational unit with the authority and responsibility for executing each task and how this information will be presented at each LSA Review Meeting.
- d. Procedures for updating and validating of LSA data to include configuration control procedures for LSA data.

10.3.3 Section III - WBS/Schedule of Activities and Milestones. This section shall include summary tasks and milestone events extracted from the Master Project Schedule and Work Breakdown Structure (CDRL/DID SMP-PM-003) to show the time-phased workflow of the LSA tasks, events, deliverables, as well as key inter-dependencies from other ILS areas.

10.3.4 Section IV – LSAR and Data Transfer. A description of the LSAR computer tool to be used and the proposed method for data transfer procedures.

10.3.5 Section V - Logistic Configuration Baseline (LCB). This section shall explain how the LCB will be established and developed. The section will explain the procedures to develop the Equipment Breakdown Structure (EBS).

A top down breakdown of the Vehicle, APS and Trailer is to be developed to the lowest repairable component. The LCB shall be developed as a physical breakdown and shall include the item name, LCN, Cage, reference number.

10.3.6 Section VI - Logistic Control Number (LCN). This section shall explain the Logistics' Control Number (LCN) system and methodology for number assignment. The LCN structure shall be 12222222. The classical LCN structure shall be used as the primary means of identifying all items in the LSAR. The LCN structure shall be developed IAW the guidelines of DEF STAN 00-60 or MIL-STD-1388-2B. Attaching hardware shall not have the same LCN as the parts it attaches.

**DID SMP-IL-003 LSA Candidate Items List**

<b>1. TITLE</b> LSA Candidate Items List (CIL)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-003	
<b>3. DESCRIPTION/PURPOSE</b> The LSA CIL contains the list of items that will be subjected to LSA.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The LSA CIL shall use a classical LCN structure as the primary means of identifying all items in the Contractor's LSAR.  10.2. The matrix shall be prepared in the format provided in Table 1 –Vehicle, APS and Trailer LSA CIL, or in the Contractor's own format.  10.3. The items listed in the LSA CIL shall be items for which the Contractor has not already performed LSA.			

Table 1 –Vehicle, APS and Trailer LSA Candidate Item List (CIL).

Candidate Item					LSA Task 301			LSA Task 401								
LCN	MFR. PART #	Cage Code	LCN Nomenclature	NSN	Sub task 301.2.4			Sub-task 401.2.1			401.2.2	401.2.3	401.2.5	401.2.7	401.2.8	401.2.11
					301.2.4.1	301.2.4.2	301.2.4.3	a	b	c						
					X			X	X	X	X			X	X	X
						X	X	X	X	X		X		X		X

Notes:

- The columns represent the LSA Tasks and sub-tasks selected in SOW, Paragraph 4.1.
- The rows represent items to be subjected to LSA. The “X” marks indicate a task selection for an item.

**DID SMP-IL-004 LSAR Data**

<b>1. TITLE</b> LSAR Data		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-004	
<b>3. DESCRIPTION/PURPOSE</b> The LSAR Data prescribes the data element definitions, data field lengths, and formats for Logistics Support Analysis Record (LSAR) Data and data transfer to DND.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B, DEF STAN 00-60, Mil-STD-1388-2B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> Table 1 LSA Data Requirement Form	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. Format and Content. LSAR data element definitions, data field lengths and formats for recording and reporting LSAR data are to be IAW DEF STAN 00-60 or MIL-STD-1388-2B. Data are to be delivered in ASCII.txt format when requested. Data to be delivered are as specified by the LSA Data Selection Attachment 1 LSAR Data Requirement Form of this DID. Provide only selected data (Y) from Table 1.			



**Attachment 1 LSA Data Requirement Form**

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
<b>CROSS FUNCTIONAL REQUIREMENT</b>				
<b>Table XA. END ITEM ACRONYM CODE</b>				
END ITEM ACRONYM CODE	K	096	EIACODXA	Y
LCN STRUCTURE		202	LCNSTRXA	Y
ADMINISTRATIVE LEAD TIME	G	014	ADDLTMXA	
CONTRACT TEAM DELAY TIME	G	052	CTDLTMXA	
CONTRACT NUMBER	G	055	CONTNOXA	
COST PER REORDER ACTION	G	061	CSREORXA	
COST PER REQUISITION	G	062	CSPRRQXA	
DEMILITARISATION COST	G	077	DEMILCXA	
DISCOUNT RATE	G	083	DISCNTXA	
ESTIMATED SALVAGE VALUE	G	102	ESSALVXA	
HOLDING COST PERCENTAGE	G	160	HLCSPCXA	
INITIAL BIN COST	G	166	INTBINXA	
INITIAL CATALOGUING COST	G	167	INCATCXA	
INTEREST RATE	G	173	INTRATXA	
INVENTORY STORAGE SPACE COST	G	176	INVSTGXA	
LOADING FACTOR	G	195	LODFACXA	
OPERATION LEVEL	G	271	WSOPLVXA	
OPERATION LIFE	G	272	OPRLIFXA	
PERSONNEL TURNOVER RATE	G	289	-----	
PRODUCTIVITY FACTOR	G	300	PROFACXA	
RECURRING BIN COST	G	333	RCBINCXA	
RECURRING CATALOGUING COST	G	334	RCCATCXA	
RETAIL STOCKAGE CRITERIA	G	359	RESTRXA	
SAFETY LEVEL	G	363	SAFLVLXA	
SUPPORT OF SUPPORT EQUIPMENT COST FACTOR	G	421	SECSFCXA	
TRANSPORTATION COST	G	466	TRNCSTXA	



<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
TYPE ACQUISITION	G	478	WSTYAQXA	
TYPE OF SUPPLY SYSTEM CODE	G	484	TSSCODXA	
<b>Table XB. LCN INDENTURED ITEM</b>				
LSA CONTROL NUMBER (LCN)	K	199	LSACONXB	Y
ALTERNATE LCN CODE	K	019	ALTLCNXB	Y
LCN TYPE	K	203	LCNTYPXB	Y
LCN INDENTURE CODE		200	LCNINDXB	
LCN NOMENCLATURE		201	LCNAMEXB	Y
TM FUNCTIONAL GROUP CODE (MAINT. ALLOCATION CHART)		438	TMFGCDXB	
SYSTEM/END ITEM IDENTIFIER		423	SYSIDNXB	
SECTIONALISED ITEM TRANSPORTATION INDICATOR		367	SECITMXB	
RELIABILITY AVAILABILITY MAINTAINABILITY INDICATOR		342	RAMINDXB	Y
<b>Table XC. SYSTEM/END ITEM</b>				
SYSTEM PROVISIONING CONTRACT CONTROL NUMBER	M	307	PCCNUMXC	Y
USABLE ON CODE		501	UOCSEIXC	Y
SYSTEM/EI ITEM DESIGNATOR CODE		179	ITMDESXC	
TRANSPORTATION END ITEM INDICATOR		467	TRASEIXC	
<b>Table XD. SYSTEM/END ITEM SERIAL NUMBER</b>				
SERIAL NUMBER	K	373	-----	Y
SERIAL NUMBER USABLE ON CODE		375	SNUUOCXD	
<b>Table XE. LCN TO SERIAL NUMBER USABLE ON CODE</b>				
<b>Table XF. LCN TO SYSTEM/END ITEM USABLE ON CODE</b>				
<b>Table XG. FUNCTIONAL/PHYSICAL LCN MAPPING</b>				
<b>Table XH. COMMERCIAL AND GOVERNMENT ENTITY</b>				
COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE	K	046	CAGECDXH	Y
CAGE NAME		047	CANAMEXH	Y
CAGE ADDRESS		047	-----	Y
<b>Table XI. TECHNICAL MANUAL CODE AND NUMBER INDEX</b>				

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
TECHNICAL MANUAL (TM) CODE	K	437	TMCODEXI	
TM NUMBER		440	TMNUMBXI	
<b>OPERATIONS AND MAINTENANCE REQUIREMENTS</b>				
<b>Table AA. OPERATIONS AND MAINTENANCE REQUIREMENTS</b>				
END ITEM ACRONYM CODE	F	096	EIACODXA	Y
LSA CONTROL NUMBER (LCN)	F	199	LSACONXB	Y
ALTERNATE LCN CODE	F	019	ALTLCNXB	Y
LCN TYPE	F	203	LCNTYPXB	Y
SERVICE DESIGNATOR CODE	K	376	SERDESAA	
REQUIRED MAXIMUM TIME TO REPAIR		222	MAXTTTAA	
REQUIRED ACHIEVED AVAILABILITY		001	ACHAVAAA	
REQUIRED INHERENT AVAILABILITY		164	INHAVAAA	
OPERATIONAL MEAN ACTIVE MAINTENANCE DOWNTIME		223	OMAMDTAA	
TECHNICAL MEAN ACTIVE MAINTENANCE DOWNTIME		223	TMAMDTAA	
REQUIRED OPERATIONAL MEAN TIME TO REPAIR		236	OPMTTTRAA	
REQUIRED TECHNICAL MEAN TIME TO REPAIR		236	TEMTTTRAA	
NUMBER OPERATING LOCATIONS		262	NUOPLOAA	
CREW SIZE		064	CREWSZAA	
TOTAL SYSTEMS SUPPORTED		454	TOSYSUAA	
RELIABILITY CENTRED MAINTENANCE LOGIC UTILISED		345	RCMLOGAA	
<b>Table AB. WAR PEACE OPERATIONS AND MAINTENANCE REQUIREMENT</b>				
OPERATIONAL REQUIREMENT INDICATOR	K	275	OPRQINAB	Y
ANNUAL NUMBER OF MISSION		021	ANNOMIAB	
ANNUAL OPERATING DAYS		022	ANOPDAAB	Y
ANNUAL OPERATING TIME		024	ANOPTIAB	Y
MEAN MISSION DURATION		228	MMISDUAB	Y
REQUIRED OPERATIONAL AVAILABILITY		273	OPAVAIAB	Y

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
REQUIRED ADMINISTRATIVE AND LOGISTIC DELAY TIME		013	OPALDTAB	
REQUIRED STANDBY TIME		403	OSTBTIAB	
<b>Table AC. MAINTENANCE LEVEL REQUIREMENT</b>				
OPERATIONS AND MAINTENANCE LEVEL CODE	K	277	OMLVLCAC	
MAINTENANCE LEVEL MAXIMUM TIME TO REPAIR		222	MLMTTRAC	
NUMBER OF SYSTEMS SUPPORTED		265	MLNSSUAC	
MAINTENANCE LEVEL SCHEDULED ANNUAL MAN-HOURS		020	MLSAMHAC	
MAINTENANCE LEVEL UNSCHEDULED ANNUAL MAN-HOURS		020	MLUAMHAC	
SCHEDULED MAN-HOURS PER OPERATING HOUR		215	MLSMHOAC	
UNSCHEDULED MAN-HOURS PER OPERATING HOUR		215	MLUMHOAC	
UNSCHEDULED MAINTENANCE MEAN ELAPSED TIME		499	MLUMETAC	
UNSCHEDULED MAINTENANCE MEAN MAN-HOURS		499	MLUMMHAC	
<b>Table AD. ORGANISATIONAL LEVEL REQUIREMENT</b>				
DAILY INSPECTION MEAN ELAPSED TIME		280	DINMETAD	
DAILY INSPECTION MEAN MAN-HOURS		280	DINMMHAD	
PREOPERATIVE INSPECTION MEAN ELAPSED TIME		280	PREMETAD	
PREOPERATIVE INSPECTION MEAN MAN-HOURS		280	PREMMHAD	
POST OPERATIVE INSPECTION MEAN ELAPSED TIME		280	POIMETAD	
POST OPERATIVE INSPECTION MEAN MAN-HOURS		280	POIMMHAD	
PERIODIC INSPECTION MEAN ELAPSED TIME		280	PINMETAD	
PERIODIC INSPECTION MEAN MAN-HOURS		280	PINMMHAD	
MISSION PROFILE CHANGE MEAN ELAPSED TIME		280	MPCMETAD	
MISSION PROFILE CHANGE MEAN MAN-HOURS		280	MPCMMHAD	
TURNAROUND INSPECTION MEAN ELAPSED TIME		280	TINMETAD	
TURNAROUND INSPECTION MEAN MAN-HOURS		280	TINMMHAD	
<b>Table AE. SKILL OPERATIONS AND MAINTENANCE REQUIREMENT</b>				
SKILL SPECIALITY CODE	F	387	SKSPCDGA	
AVAILABLE MAN-HOURS		028	AVAIMHAE	

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
AVAILABLE QUANTITY		324	QTYAVAAE	
UTILISATION RATIO		503	UTRATIAE	
<b>Table AF. WAR PEACE ADDITIONAL REQUIREMENTS NARRATIVE</b>				
ADDITIONAL REQUIREMENTS NARRATIVE		009	WPADDRAF	
<b>Table AG. RELIABILITY REQUIREMENT</b>				
ANNUAL OPERATING REQUIREMENT	M	023	ANOPREAG	Y
OPERATIONAL REQUIREMENTS INDICATOR	M	275	OPRQINAG	Y
REQUIRED OPERATIONAL MEAN TIME BETWEEN FAILURES		229	OPMTBFAG	
REQUIRED TECHNICAL MEAN TIME BETWEEN FAILURES		229	TEMTBFAG	
REQUIRED OPERATIONAL MEAN TIME BETWEEN MAINT. ACTIONS		230	OPMRBMAG	
REQUIRED TECHNICAL MEAN TIME BETWEEN MAINT. ACTIONS		230	TMTBMAAG	
REQUIRED MEAN TIME BETWEEN REMOVALS		235	MTBRXXAG	
<b>Table AH. INTEROPERABILITY REQUIREMENT</b>				
INTEROPERABLE ITEM NAME	K	182	IONAMEAH	
INTEROPERABLE ITEM NUMBER TYPE	K	266	IOINTYAH	
INTEROPERABLE CAGE CODE		046	IOCAGEAH	
INTEROPERABLE REFERENCE NUMBER		337	IOREFNAH	
INTEROPERABLE ITEM NATIONAL STOCK NUMBER		253	-----	
INTEROPERABLE ITEM TECHNICAL MANUAL NUMBER		440	IOITNMAH	
<b>Table AI. MODELING DATA</b>				
MODELING SERVICE DESIGNATOR CODE	K	376	SERDESAI	
MODELING OPERATIONS MAINTENANCE LEVEL CODE	K	277	OMLVLCAI	
LABOUR RATE		189	LABRATAI	
NUMBER OF SHOPS		263	NOSHPSAI	
REPAIR WORK SPACE COST		352	RPWSCSAI	
REQUIRED DAYS OF STOCK		357	RQDSTKAI	
<b>Table AJ. OPERATIONS AND MAINTENANCE SHIPPING EQUIREMENTS</b>				

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
OPERATIONS AND MAINTENANCE LEVEL FROM	K	277	OMLVLFAJ	
OPERATIONS AND MAINTENANCE LEVEL TO	K	277	OMLVLTAJ	
SHIP DISTANCE		085	SHPDISAJ	
SHIP TIME		379	TIMESHAJ	
<b>Table AK. SYSTEM END ITEM NARRATIVE</b>				
SYSTEM ITEM NARRATIVE CODE	K	424	SEINCDAK	
ADDITIONAL SUPPORTABILITY CONSIDERATIONS NARRATIVE		010		
ADDITIONAL SUPPORTABILITY PARAMETERS NARRATIVE		011		
OPERATIONAL MISSION FAILURE DEFINITION		274		
<b>ITEM RELIABILITY, AVAILABILITY AND MAINTAINABILITY CHARACTERISTICS; FAILURE MODES EFFECTS AND CRITICALITY ANALYSIS AND MAINTAINABILITY ANALYSIS</b>				
<b>Table BA. RELIABILITY AVAILABILITY AND MAINTAINABILITY RAM CHARACTERISTICS</b>				
END ITEM ACRONYM CODE	F	096	EIACODXA	Y
LCN CONTROL NUMBER (LCN)	F	199	LSACONXB	Y
ALTERNATE LCN CODE	F	019	ALTLCNXB	Y
LCN TYPE	F	203	LCNTYPXB	Y
MINIMUM EQUIPMENT LIST INDICATOR		243	MEQLINBA	
CONVERSION FACTOR		059	CONVFABA	Y
FAULT ISOLATION		143	-----	
BUILT IN DETECTABILITY LEVEL PERCENT		032	-----	
BUILT IN CANNOT DUPLICATE PERCENTAGE		031	BITNDPBA	
BUILT IN TEST RETEST OK PERCENT		033	BITROPBA	
FAILURE RATE DATA SOURCE		141	FRDATABA	
PILOT REWORK OVERHAUL CANDIDATE		292	PREOVCBA	
SECURITY CLEARANCE		369	SECCLEBA	
SUPPORT CONCEPT		410	SUPCONBA	
WEAROUT LIFE		505	WEOULIBA	Y

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
LOGISTIC CONSIDERATIONS		196	-----	
<b>Table BB. RAM CHARACTERISTICS NARRATIVE</b>				
RAM CHARACTERISTICS NARRATIVE CODE	K	341	RAMCNABB	Y
RAM ITEM FUNCTION		180	RAMNARBB	Y
RAM MAINTENANCE CONCEPT		207	RAMNARBB	Y
RAM MINIMUM EQUIPMENT LIST NARRATIVE		244	RAMNARBB	
RAM QUALITATIVE/QUANTITATIVE MAINT. REQ.		315	RAMNARBB	
MAINTENANCE PLAN RATIONALE		210	RAMNARBB	Y
<b>Table BC. RAM LOGISTICS CONSIDERATIONS</b>				
LOGISTICS CONSIDERATION CODE	K	425	LOCOCBC	
RAM LOGISTIC CONSIDERATIONS		426	LOGNARBC	
<b>Table BD. RAM INDICATOR CHARACTERISTICS</b>				
RAM INDICATOR CODE	K	347	RAMINDBD	Y
ACHIEVED AVAILABILITY		001	ACHAVABD	
INHERENT AVAILABILITY		164	INHAVABD	
FAILURE RATE		140	FAILRTBD	Y
INHERENT MAINTENANCE FACTOR		165	INHMAFBD	
MAXIMUM TIME TO REPAIR		222	MAXTTRBD	Y
MEAN TIME TO REPAIR OPERATIONAL		236	MTTROPBD	
MEAN TIME TO REPAIR TECHNICAL		236	MTTRTHBD	Y
MEAN TIME BETWEEN FAILURE OPERATIONAL		229	OPMTBFBD	
MEAN TIME BETWEEN FAILURE TECHNICAL		229	TEMTBFBD	Y
MEAN TIME BETWEEN MAINTENANCE ACTIONS OPERATIONAL		230	OMTBMABD	
MEAN TIME BETWEEN MAINTENANCE ACTIONS TECHNICAL		230	TMTBMABD	
MEAN TIME BETWEEN MAINTENANCE INDUCED		231	INMTBMBD	
MEAN TIME BETWEEN MAINTENANCE INHERENT		232	INHMTBBD	
MEAN TIME BETWEEN MAINTENANCE NO DEFECT		233	NOMTBMBD	
MEAN TIME BETWEEN PREVENTIVE MAINTENANCE		234	MTBMPVBD	

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
MEAN TIME BETWEEN REMOVALS		235	MTBRXXBD	
<b>Table BE. WAR\PEACE RAM INDICATOR CHARACTERISTICS</b>				
RAM OPERATIONAL REQUIREMENT INDICATOR	K	275	OPRQINBE	
ADMINISTRATIVE AND LOGISTIC DELAY TIME		013	ALDTXXBE	
OPERATIONAL AVAILABILITY		273	OPAVAIBE	
STANDBY TIME		403	STABYTBE	
<b>Table BF. FAILURE MODE AND RELIABILITY CENTRED MAINTENANCE</b>				
FAILURE MODE INDICATOR	K	134	FAMOINBF	
ENGINEERING FAILURE MODE MEAN TIME BETWEEN FAILURE		097	EFMTBFBF	
FAILURE MODE CLASSIFICATION		132	FMCLASBF	
FAILURE MODE RATIO		136	FMRATOFB	
RELIABILITY CENTRED MAINTENANCE (RCM) LOGIC RESULTS		344	-----	
RCM DISPOSITION		084	-----	
<b>Table BG. FAILURE MODE AND RCM NARRATIVE</b>				
FAILURE MODE AND RCM NARRATIVE CODE	K	131	FMNCNABG	
FAILURE DAMAGE MODE EFFECT END EFFECT		125		
FAILURE DAMAGE MODE EFFECT LOCAL		126		
FAILURE DAMAGE MODE EFFECT NEXT HIGHER		127		
FAILURE CAUSE		124		
FAILURE DAMAGE MODE		128		
FAILURE MODE DETECTION METHOD		129		
FAILURE MODE PREDICTABILITY		138		
FAILURE MODE REMARKS		137		
REDESIGN RECOMMENDATIONS		426		
RCM AGE EXPLORATION		343		
RELIABILITY CENTRED MAINTENANCE REASONING		346		
RCM REDESIGN RECOMMENDATIONS		426		
<b>Table BH.FAILURE MODE TASK</b>				

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
TASK REQUIREMENTS LCN	F	199	TLACNBH	
TASK REQUIREMENT ALTERNATE LCN CODE	F	019	TALCNCBH	
TASK REQUIREMENT LCN TYPE	F	203	TLCNTYBH	
TASK CODE	F	427	TTASKCBH	
TASK TYPE		433	TATYPEBH	
MAINTENANCE INTERVAL		208	MAININBH	
<b>Table BI. FAILURE MODE INDICATOR (FMI) MISSION PHASE CODE (MPC) CHARACTERISTICS</b>				
SAFETY HAZARD SEVERITY CODE	M	362	FMSHSCBI	
FAILURE EFFECT PROBABILITY		130	FEPROBBI	
FAILURE MODE CRITICALITY NUMBER		133	FACRNUBI	
FAILURE PROBABILITY LEVEL		139	FPROBLBI	
OPERATING TIME		269	FMOPTIBI	
<b>Table BJ. FMI MPC CHARACTERISTICS NARRATIVE</b>				
FMI MPC CHARACTERISTICS NARRATIVE CODE	K	135	FMMPCNB	
COMPENSATING DESIGN PROVISIONS		049		
COMPENSATING OPERATOR ACTION PROVISIONS		050		
<b>Table BK. RAM CRITICALITY</b>				
RAM SAFETY HAZARD SEVERITY CODE	K	362	FMSHSCBK	
RAM ITEM CRITICALITY NUMBER		178	RICRITBK	
<b>Table BL. MISSION PHASE OPERATIONAL MODE</b>				
MISSION PHASE CODE	K	246	MISSPCBL	
MISSION PHASE OPERATIONAL MODE		247	MPOPLDBL	
<b>TASK INVENTORY, TASK ANALYSIS AND PERSONNEL AND SUPPORT REQUIREMENTS</b>				
<b>Table CA. TASK REQUIREMENT</b>				
END ITEM ACRONYM CODE	F	096	EIACODXA	Y
LSA CONTROL NUMBER (LCN)	F	199	LSACONXB	Y
ALTERNATE LCN CODE	F	019	ALTLCNXB	Y
LCN TYPE	F	203	LCNTYPXB	Y
TASK CODE	K	427	TASKCDCA	Y



Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
REFERENCED TASK CODE		427	REFTSKCA	Y
TASK ANNUAL OPERATING REQUIREMENT BASE		238	AORMSBCA	Y
TASK IDENTIFICATION	M	431	TASKIDCA	Y
TASK FREQUENCY		430	TSKFRQCA	Y
TASK CRITICALITY CODE		429	TSKCRCCA	
HARDNESS CRITICAL PROCEDURE CODE		152	HRDCPCCA	
HAZARDOUS MAINTENANCE PROCEDURES CODE		155	HAZMPCCA	Y
PREVENTIVE MAINTENANCE CHECKS AND SERVICES INDICATOR		296	PMCSIDCA	
MEASURED MEAN ELAPSED TIME		224	MSDMETCA	
PREDICTED MEAN ELAPSED TIME		224	PRDMETCA	Y
MEASURED MEAN MAN HOURS		225	MSDMMHCA	
PREDICTED MEAN MAN HOURS		225	PRDMMHCA	Y
MEANS OF DETECTION		237	-----	
FACILITY REQUIREMENT CODE		358	FTRNRQCA	
TRAINING EQUIPMENT CODE		358	TRNRQCCA	
TRAINING RECOMMENDATION TYPE		463	TRNRECCA	
TRAINING LOCATION RATIONALE		461	TRNLOCCA	
TRAINING RATIONALE		462	TRNRATCA	
TOOL\SUPPORT EQUIPMENT REQUIREMENT CODE		358	TSEREQCA	
TASK PERFORMANCE		287	-----	
TASK CONDITION		428	-----	

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
<b>Table CE. TASK REMARK</b>				
TASK REMARK REFERENCE CODE	K	349	TSKRRCCE	Y
TASK REMARK		432	TSKREMCE	
<b>Table CF. TASK REMARK REFERENCE</b>				
<b>Table CG. TASK SUPPORT EQUIPMENT</b>				
TASK SUPPORT CAGE CODE	F	046	TSCAGECG	Y
TASK SUPPORT REFERENCE NUMBER	F	337	TSREFNCG	Y
SUPPORT ITEM QUANTITY PER TASK		319	SQTYTKCG	Y
<b>Table CH. TASK MANUAL</b>				
TECHNICAL MANUAL CODE	F	437	TMCODEXI	
<b>Table CI. TASK PROVISIONED ITEM</b>				
TASK PROVISION LCN	F	199	PROLCNCI	Y
TASK PROVISION ALC	F	019	PROALCCI	Y
TASK PROVISION LCN TYPE	F	203	PROLTYCI	Y
TASK PROVISION CAGE CODE	F	046	PROCAGCI	Y
TASK PROVISION REFERENCE NUMBER	F	337	PROREFCI	Y
PROVISION QUANTITY PER TASK		319	PQTYTKCI	Y
<b>Table CJ. JOB AND DUTY ASSIGNMENT</b>				
JOB CODE	K	186	JOBCODCJ	
DUTY CODE	K	091	DUTYCDCJ	
JOB		185	JOBDESCJ	
DUTY		090	DUTIESCJ	
<b>Table CK. TASK INVENTORY</b>				
SEQUENTIAL SUBTASK DESCRIPTION TSC FROM	K	450	TSFROMCK	

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
SEQUENTIAL SUBTASK DESCRIPTION TSC TO	K	450	TEXTTOCK	
SUBTASK PERSON IDENTIFIER	K	288	SUBPIDCD	
<b>SUPPORT EQUIPMENT AND TRAINING MATERIEL REQUIREMENTS</b>				
<b>Table EA. SUPPORT EQUIPMENT</b>				
SUPPORT EQUIPMENT CAGE	F	046	SECAGEEA	Y
SUPPORT EQUIPMENT REFERENCE NUMBER	F	337	SEREFNEA	Y
SUPPORT EQUIPMENT FULL ITEM NAME		412	FLITNMEA	Y
SUPPORT EQUIPMENT ITEM CATEGORY CODE		177	SEICCDEA	Y
ACQUISITION DECISION OFFICE		002	AQDCOFEA	
END ARTICLE ITEM DESIGNATOR		179	ENDARTEA	
ADAPTOR/INTERCONNECTION DEVICE REQUIRED		005	AIDRQDEA	
DATE OF FIRST ARTICLE DELIVERY		071	DATFADEA	
CALIBRATION INTERVAL		037	CALINTEA	
CALIBRATION ITEM		038	CALITMEA	
CALIBRATION REQUIRED		040	CALRQDEA	
CALIBRATION STANDARD		041	CALSTDEA	
CALIBRATION TIME		042	CALTIMEA	
CALIBRATION MEASUREMENT REQUIREMENT SUMMARY RECOMMENDED		035	CMRSRCEA	
CONTRACT NUMBER		055	CNTRNOEA	
CONTRACT FURNISHED/GOVERNMENT FURNISHED EQUIPMENT		056	CFEGFEEA	
CUSTODY CODE		069	CUSTCDEA	
DRAWING CLASSIFICATION		088	DRWCLSEA	
ECONOMIC ANALYSIS		093	ECOANLEA	
FAMILY GROUP		142	FAMGRPEA	
GENERIC CODE		148	GENECDEA	
GOVERNMENT DESIGNATOR		149	GOVDESEA	
HARDWARE DEVELOPMENT PRICE		153	HDWRPREA	
INTEGRATED LOGISTIC SUPPORT PRICE		170	ILSPRCEA	

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
DESIGN DATA PRICE		080	DSNPRCEA	
EXTENDED UNIT PRICE		103	EXUNPREA	
PASS THRU PRICE		285	PASTHREA	
OPERATING AND SUPPORT COST		267	OSCOSTEA	
RECURRING COST		332	RCURCSEA	
LIFE CYCLE STATUS		190	LICYSTEA	
LIFE SPAN		191	LIFSPNEA	
LOGISTIC CONTROL CODE		197	LGCTCDEA	
LOGISTICS DECISION OFFICE		198	LGDCOFEA	
LSA RECOMMENDATION CODE		204	LSARCDEA	
MANAGEMENT PLAN		216	MGTPLNEA	
MANAGING COMMAND/AGENCY		217	MGCOATEA	
SUPPORT EQUIPMENT MEAN TIME BETWEEN FAILURES		229	SEMTBFEA	Y (only for Sp Eqpt not already in use by DND)
SUPPORT EQUIPMENT MEAN TIME BETWEEN MAINTENANCE ACTIONS		230	SMTBMAEA	Y (only for Sp Eqpt not already in use by DND)
SUPPORT EQUIPMENT MEAN TIME TO REPAIR		236	SEMTTREA	Y (only for Sp Eqpt not already in use by DND)
MOBILE FACILITY CODE		248	MOBFACEA	
MODIFICATION OR CHANGE		252	MODCHGEA	
OPERATING DIMENSIONS		268	-----	
OPERATING WEIGHT		270	OPRWGTEA	
PRINTED CIRCUIT BOARD REPAIR MAINTENANCE LEVEL		277	PCBLVLEA	
SUPPORT EQUIPMENT CALIBRATION MAINTENANCE LEVEL		277	CALLVLEA	

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
SUPPORT EQUIPMENT (SE) REPAIR MAINTENANCE LEVEL		277	RPRLVLEA	
TECHNICAL MANUAL REQUIRED CODE		441	TMRQCDEA	
OPERATORS MANUAL		278	OPRMANEA	
SKILL SPECIALITY CODE FOR SUPPORT EQUIPMENT OPERATOR		387	SSCOPREA	
PREPARING ACTIVITY		294	PREATYEA	
PROGRAMME ELEMENT		301	PROELEEA	
PROGRAMME SUPPORT INVENTORY CONTROL POINT		303	PSICPOEA	
REPORTABLE ITEM CONTROL CODE		356	SERICCEA	
REVOLVING ASSETS		361	REVASSEA	
SELF TEST CODE		370	SLFTSTEA	
SENSORS OR TRANSDUCERS		371	SENTRAEA	
SE SERVICE DESIGNATOR		376	SERDESEA	
USING SERVICE DESIGNATOR CODE		376	USESEREA	
SKETCH		383	SKETCHEA	
SPARE FACTOR		390	SPRFACEA	
SPECIAL MANAGEMENT CODE		393	SPMGNTEA	
STANDARD INTERSERVICE AGENCY SERIAL CONTROL NUMBER		401	SIASCNEA	
STORAGE DIMENSIONS		405	-----	
STORAGE WEIGHT		406	STOWGTEA	
SUPPORT EQUIPMENT SHIPPING DIMENSIONS		419	-----	
SUPPORT EQUIPMENT SHIPPING WEIGHT		420	SESHWTEA	
SUPPORT EQUIPMENT GROUPING		413	SEGRCDEA	
SUPPORT EQUIPMENT REQUIRED		418	SEREQDEA	
TECHNICAL EVALUATION PRIORITY CODE		435	TECEVLEA	
TEST LANGUAGE		443	TSTLNGEA	
TEST POINTS		446	TSTPTSEA	
TMDE REGISTER CODE		444	TMDERCEA	
TMDE REGISTER INDEX		445	TMDERIEA	

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
TYPE CLASSIFICATION		479	TYPCLSEA	
TYPE EQUIPMENT CODE		480	TYPEEQEA	
YEAR OF FIELDING		518	YRFLDGEA	
<b>Table EB. ALLOCATION DATA</b>				
ALLOWANCE DOCUMENT NUMBER	K	016	ALDCNMEB	
ALLOWABLE RANGE 1 - 10 AND EXTENDED RANGE		015	-----	
ALLOCATING DESIGNATION DESCRIPTION		015	ALDNDSEB	
ALLOCATION LAND VESSEL CODE		015	ALLVCDEB	
ALLOCATION MAINTENANCE LEVEL FUNCTION		015	ALMLVLEB	
ALLOCATION STATION IDENTIFICATION CODE		015	ALSTIDEB	
<b>Table EC. SUPPORT EQUIPMENT PARAMETERS</b>				
SUPPORT EQUIPMENT PARAMETERS	K	284	-----	
CALIBRATION PROCEDURE		039	CALPROEC	
<b>Table ED. SUPPORT EQUIPMENT AUTHORISATION</b>				
SPECIFIC AUTHORISATION	K	399	-----	
<b>Table EE.SUPPORT EQUIPMENT NARRATIVE</b>				
SUPPORT EQUIPMENT NARRATIVE CODE	K	414	SENARCEE	
FUNCTIONAL ANALYSIS		147		
DESCRIPTION AND FUNCTION OF SUPPORT EQUIPMENT		078		
SUPPORT EQUIPMENT NON-PROLIFERATION EFFORT		415		
CHARACTERISTICS OF SUPPORT EQUIPMENT		044		
INSTALLATION FACTORS OF OTHER FACILITIES		169		
ADDITIONAL SKILLS AND SPECIAL TRAINING REQUIREMENTS		008		
SUPPORT EQUIPMENT EXPLANATION		411		
JUSTIFICATION		188		
<b>Table EF. SUPPORT EQUIPMENT RECOMMENDATION DATA</b>				
SUPPORT EQUIPMENT RECOMMENDATION DATA (SERD) NUMBER	K	416	SERDNOEF	
SERD REVISION	K	360	SRDREVEF	

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
SERD STATUS		404	STATUSEF	
SERD DATE OF INITIAL SUBMISSION		071	INTSUBEF	
SERD DATE OF GOVERNMENT DISPOSITION		071	DTGVDSEF	
SERD DATE OF REVISION SUBMISSION		071	DTRVSBEF	
<b>Table EG. SERD REVISION REMARKS</b>				
SERD REVISION REMARKS		417	REVREMEG	
<b>Table EH. ALTERNATE NATIONAL STOCK NUMBERS</b>				
ALTERNATIVE NATIONAL STOCK NUMBER	K	253	-----	
<b>Table EI. INPUT POWER SOURCE</b>				
INPUT POWER SOURCE	K	168	-----	
<b>Table EJ. SUPPORT EQUIPMENT DESIGN DATA</b>				
DESIGN DATA CATEGORY CODE (DDCC)	K	079	DSNDATEJ	
DDCC Contractor RECOMMENDED		057	CNTRECEJ	
DDCC ESTIMATED PRICE		101	ESTPRCEJ	
DDCC GOVERNMENT REQUIRED		150	GOVRQDEJ	
DDCC SCOPE		365	DDCCSCEJ	
<b>Table EK. SUPERCEDURE DATA</b>				
SUPERCEDURE CAGE CODE	K	046	SPRCAGEK	
SUPERCEDURE REFERENCE NUMBER	K	337	SPRREFEK	
SUPERCEDURE TYPE	M	408	SUTYPEEK	
SUPERCEDURE ITEM NAME		182	SUPITNEK	
SUPERCEDURE SERD (SEQUENCE NUMBER)		416	SUSRNOEK	
REASON FOR SUPERCEDURE\DELETION		327	REASUPEK	
SUPERCEDURE INTERCHANGEABILITY CODE		172	ICCODEEK	
<b>Table EL. SUPPORT EQUIPMENT ILS REQUIREMENT CATEGORY CODE</b>				
ILS REQUIREMENT CATEGORY CODE (IRCC)	K	171	IRCCODEL	
IRCC Contractor RECOMMENDED		057	CONRECEL	
IRCC ESTIMATED PRICE		101	ESTPRCEL	
IRCC GOVERNMENT REQUIRED		150	GOVRQDEL	

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
IRCC SCOPE		365	IRCSCOEL	
<b>Table EM. SYSTEM EQUIPMENT</b>				
SYSTEM CAGE CODE	F	046	SCAGECEM	
SYSTEM REFERENCE NUMBER	F	337	SREFNOEM	
SYSTEM EQUIPMENT QUANTITY PER TEST		320	QTYTSTEM	
SYSTEM EQUIPMENT ITEM DESIGNATOR		179	GFAEIDEM	
<b>UNIT UNDER TEST REQUIREMENTS AND DESCRIPTION</b>				
<b>Table UA. ARTICLE REQUIRING SUPPORT/UNIT UNDER TEST (UUT)</b>				
END ITEM ACRONYM CODE	F	096	EIACODXA	
UUT LSA CONTROL NUMBER (LCN)	F	199	UUTLCNUA	
UUT ALTERNATE LCN CODE	F	019	UUTALCUA	
UUT LCN TYPE	F	203	UTLCNTUA	
UUT ALLOWANCE		016	UTALLOUA	
UUT MAINTENANCE PLAN NUMBER		209	UMNTPLUA	
UUT TEST REQUIREMENTS DOCUMENT NUMBER		448	UTTRDNUA	
UUT WORK PACKAGE REFERENCE		515	UTWPRFUA	
<b>Table UB. UUT SUPPORT EQUIPMENT</b>				
SUPPORT EQUIPMENT CAGE CODE	F	046	SECAGEEEA	
SUPPORT EQUIPMENT REFERENCE NUMBER	F	337	SEREFNEA	
UUT CMRS SUMMARY STATUS		036	UTSTCDUB	
UUT CMRS RECOMMENDED CODE		035	UTCMRSUB	
<b>Table UC. OPERATIONAL TEST PROGRAM</b>				
OPERATIONAL TEST PROGRAM (OTP) CAGE CODE	F	046	OTPCAGUC	
OTP REFERENCE NUMBER		337	OTPREFUC	
OTP APPORTIONED UNIT COST		025	-----	
OTP COORDINATED TEST PLAN		060	OTPCTPUC	
OTP STANDARDS FOR COMPARISON		402	OTPSFCUC	
OTP SUPPORT EQUIPMENT RECOMMENDATION DATA NUMBER		416	OTPSRDUC	
<b>Table UD. UUT SUPPORT EQUIPMENT OPERATIONAL TEST PROGRAM</b>				



Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
<b>Table UE. TEST PROGRAM INSTRUCTION</b>				
TEST PROGRAM INSTRUCTION (TPI)CAGE CODE	F	046	TPICAGUE	
TPI REFERENCE NUMBER	F	337	TPIREFUE	
TPI APPORTIONED UNIT COST		025	-----	
TPI SELF TEST		370	TPISTSUE	
TPI TECHNICAL DATA PACKAGE		434	TPITDPUE	
TPI SUPPORT EQUIPMENT RECOMMENDATION DATA NUMBER		416	TPISRDUE	
<b>Table UF. UNIT UNDER TEST EXPLANATION</b>				
UUT EXPLANATION		498	UTEXPLUF	
<b>Table UG. UNIT UNDER TEST PARAMETER GROUP</b>				
UUT PARAMETERS	K	284	-----	
UUT CMRMS PARAMETER CODE		034	UUTPPCUG	
UUT PARAMETERS TEST ACCURACY RATIO		442	-----	
<b>Table UH. UUT FAULT ISOLATED REPLACEABLE UNIT</b>				
TASK LSA CONTROL NUMBER (LCN)	F	199	TSKLCNCI	
TASK ALTERNATE LCN CODE (ALC)	F	019	TSKALCCI	
TASK LCN TYPE	F	203	TSKLTYCI	
TASK PROVISION TASK CODE	F	427	TSKTCDCI	
TASK PROVISION LCN	F	199	PROLCNCI	
TASK PROVISION ALC	F	019	PROALCCI	
TASK PROVISION LCN TYPE	F	203	PROLTYCI	
TASK PROVISION CAGE CODE	F	046	PROCAGCI	
TASK PREVISION REFERENCE NUMBER	F	337	PROREFCI	
SUPPORT EQUIPMENT CAGE CODE	M	046	SECAGEEA	
SUPPORT EQUIPMENT REFERENCE NUMBER	M	337	SEREFNEA	
UUT FIRU FAULT ISOLATION		143	-----	
UUT FIRU TEST REQUIREMENTS DOCUMENT INDICATOR		447	UUTFTDUH	
<b>Table UI. ADAPTER-INTERCONNECTOR DEVICE</b>				

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
ADAPTER INTERCONNECT DEVICE (AID) CAGE CODE	F	046	AIDCAGUI	
AID REFERENCE NUMBER	F	337	AIDREFUI	
AID APPORTIONED UNIT COST		025	-----	
AID SUPPORT EQUIPMENT RECOMMENDATION DATA NUMBER		416	AIDSRDUI	
AID COMMON UNIT UNDER TEST		048	AIDCUTUI	
<b>Table UJ. UUT SUPPORT EQUIPMENT ADAPTER-INTERCONNECTOR DEVICE</b>				
<b>Table UK. AUTOMATIC TEST EQUIPMENT TEST STATION</b>				
ATE CAGE CODE	F	046	ATECAGUK	
AUTOMATIC TEST EQUIPMENT (ATE) REFERENCE NUMBER	F	337	ATEREFUK	
ATE GOVERNMENT DESIGNATOR		149	ATEGDSUK	
<b>Table UL. UUT SUPPORT EQUIPMENT AUTOMATIC TEST EQUIPMENT</b>				
<b>Table UM. SUPPORT EQUIPMENT ITEM UNIT UNDER TEST</b>				
SUPPORT EQUIPMENT UNIT UNDER TEST (SE UUT) CAGE CODE	F	046	SUTCAGUM	
SE UUT REFERENCE NUMBER	F	337	SUTREFUM	
SE UUT ALLOWANCE		016	SUTALLUM	
SE UUT CMRS STATUS		036	SUTSTCUM	
SE UUT MAINTENANCE PLAN NUMBER		209	MNTPLNUM	
SE UUT TEST REQUIREMENTS DOCUMENT NUMBER		448	TRDNUMUM	
SE UUT WORK PACKAGE REFERENCE		515	WKPKRFUM	
<b>Table UN. SUPPORT EQUIPMENT UUT PARAMETER GROUP</b>				
SE UUT PARAMETERS	K	284	-----	
SE UUT CMRS PARAMETER CODE		034	UTPACMUN	
SE UUT PARAMETER TEST ACCURACY RATIO		442	-----	
<b>FACILITIES CONSIDERATIONS</b>				
<b>Table FA. FACILITY</b>				
FACILITY NAME	K	118	FACNAMFA	
FACILITY CATEGORY CODE	K	115	FACCCDFA	
FACILITY TYPE	K	483	FACTYPFA	

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
FACILITY CLASS		116	FACCLAFA	
FACILITY DRAWING CLASSIFICATION		088	DRCLASFA	
FACILITY DRAWING NUMBER		089	FADNUMFA	
FACILITY DRAWING REVISION		360	FADREVFA	
FACILITY AREA		112	FAAREAFA	
FACILITY AREA UNIT OF MEASURE		491	FAARUMFA	
FACILITY CONSTRUCTION UNIT OF MEASURE PRICE		492	FACNCOFA	
CONSTRUCTION UNIT OF MEASURE		491	CONUOMFA	
<b>Table FB. FACILITY NARRATIVE</b>				
FACILITY NARRATIVE CODE	K	119	FNCODEFB	
FACILITY CAPABILITY		114		
FACILITY LOCATION		117		
<b>Table FC. BASELINE FACILITY NARRATIVE</b>				
BASELINE FACILITY NARRATIVE CODE	K	113	FBNACDFC	
FACILITIES MAINTENANCE REQUIREMENT		107		
FACILITIES REQUIREMENTS FOR OPERATIONS		109		
FACILITIES REQUIREMENT FOR TRAINING		110		
FACILITY REQUIREMENTS SPECIAL CONSIDERATIONS		120		
FACILITY REQUIREMENTS SUPPLY/STORAGE		121		
<b>Table FD. NEW OR MODIFIED FACILITY NARRATIVE</b>				
NEW OR MODIFIED FACILITY NARRATIVE CODE	K	255	NMFNCDFD	
FACILITY DESIGN CRITERIA		105		
FACILITY INSTALLATION LEAD TIME		106		
FACILITY TASK AREA BREAKDOWN		122		
FACILITIES UTILISATION		111		
FACILITIES REQUIREMENTS		108		
FACILITY UNIT COST RATIONALE		123		
FACILITY JUSTIFICATION		188		
TYPE OF CONSTRUCTION		482		
UTILITIES REQUIREMENT		502		

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
<b>Table FE. OPERATIONS AND MAINTENANCE TASK FACILITY REQUIREMENT</b>				
END ITEM ACRONYM CODE	F	096	EIACODXA	
LSA CONTROL NUMBER (LCN)	F	199	LCNCODXB	
ALTERNATE LCN CODE	F	019	ALTLCNXB	
LCN TYPE	F	203	LCNTYPXB	
TASK CODE	F	427	TASKCDCA	
<b>PERSONNEL SKILL CONSIDERATIONS</b>				
<b>Table GA. SKILL SPECIALITY</b>				
SKILL SPECIALITY CODE	K	387	SKSPCDGA	Y
SKILL LEVEL CODE		386	SKLVCDGA	Y
HOUR LABOR RATE		161	HRLARTGA	
TRAINING COST		460	TRNCOSGA	
<b>Table GB. NEW OR MODIFIED SKILL</b>				
NEW OR MODIFIED SKILL SPECIALITY CODE	K	257	MDCSSCGB	
NEW OR MODIFIED SKILL LEVEL CODE		386	MDSCLCGB	
SKILL SPECIALITY CODE		387	SKSPCDGA	
DUTY POSITION REQUIRING A NEW OR REVISED SKILL		092	DPRNRSGB	
RECOMMENDED RANK/RATE/PAY PLAN/GRADE		330	-----	
SECURITY CLEARANCE		369	SCRSSCGB	
TEST SCORE		449	SSCTESGB	
ASVAB SCORE		026	ABAFQTGB	
ASVAB AFQT EXPECTED RANGE		026	-----	
ASVAB AFQT LOWEST PERCENT		026	-----	
<b>Table GC. NEW OR MODIFIED SKILL NARRATIVE</b>				
NEW OR MODIFIED SKILL NARRATIVE CODE	K	256	NMSNCDGC	
ADDITIONAL REQUIREMENTS		007	NMSNCDGC	
EDUCATIONAL QUALIFICATIONS		094	NMSNCDGC	
SKILL JUSTIFICATION		188	NMSNCDGC	
ADDITIONAL TRAINING REQUIREMENTS		012	NMSNCDGC	
<b>Table GD. SKILL APTITUDE DATA</b>				

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
ASVAB APTITUDE ELEMENT	K	026	ASVAPEGD	
ASVAB APTITUDE ELEMENT EXPECTED RANGE		026	-----	
ASVAB APTITUDE ELEMENT LOWEST PERCENT		026	-----	
<b>Table GE. PHYSICAL AND MENTAL REQUIREMENTS NARRATIVE</b>				
END ITEM ACTONYM CODE	F	096	EIACODXA	
LSA CONTROL NUMBER (LCN)	F	199	LSACONXB	
ALTERNATE LCN CODE	F	019	ALTLCNXB	
LCN TYPE	F	203	LCNTYPXB	
TASK CODE	F	427	TASKCDCA	
SUBTASK NUMBER	F	407	SUBNUMCB	
SUBTASK PERSON IDENTIFIER	F	288	SUBPIDCD	
PHYSICAL AND MENTAL REQUIREMENTS NARRATIVE		290	PAMENRGE	
<b>TRANSPORTABILITY ENGINEERING ANALYSIS</b>				
<b>Table JA. TRANSPORTATION</b>				
END TIME ACRONYM CODE	F	096	EIACODXA	
LSA CONTROL NUMBER (LCN)	F	199	LSACONXB	
ALTERNATE LCN CODE	F	019	ALTLCNXB	
LCN TYPE	F	203	LCNTYPXB	
TRANSPORTATION INDICATOR		468	TRNINDJA	
SECTIONALISED IDENTIFICATION		366	SECTIDJA	
ENVIRONMENTALHANDLING AND TRANSPORTATION INDICATOR		098	ENHATCJA	
DELIVERY SCHEDULE		075	DELSCHJA	
CONTRACT NUMBER		055	CONNUMJA	
PROPER SHIPPING NAME		304	PROPSNJA	
SPEED		400	SPSPEDJA	
TOWING SPEED		455	TWSPEDJA	
MILITARY UNIT TYPE		242	MILUNTJA	
REVISION DATE		071	TRCHRDJA	
THEATRE OF OPERATION		451	TRCHTHJA	

<b>Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE</b>	<b>KEY</b>	<b>DED</b>	<b>CODE</b>	<b>Section 2 REQUIRED</b>
NONOPERATIONAL FRAGILITY FACTOR		260	NOPRFFJA	
NET EXPLOSIVE WEIGHT		254	NETEXWJA	
<b>Table JB. TRANSPORTATION SHIPPING MODES</b>				
TRANSPORTATION CHARACTER NUMBER	K	465	TRANCNJB	
TRANSPORTATION CHARACTER MODE TYPE	K	464	TRCHMTJB	
TRANSPORTATION ITEM DESIGNATOR		469	TRITDRJB	
SHIPPING CONFIGURATION		380	SHPCONJB	
CONTAINER LENGTH		053	CONLENJB	
CONTAINER TYPE		054	CONTYPJB	
FREIGHT CLASSIFICATION		146	FRCLASJB	
EXTERNAL OR INTERNAL LOAD INDICATOR		104	EOILINJB	
HELICOPTER MISSION		159	-----	
HIGHWAY MODEL LOAD		250	-----	
HIGHWAY MODEL TYPE		251	-----	
RAIL USE		326	RAILUSJB	
RAIL TRANSPORTATION COUNTRY		325	RAILTCJB	
SEA DECK STOWAGE		072	SDECKSJB	
<b>Table JC. TRANSPORTED END ITEM</b>				
TRANSPORTED CONFIGURATION NUMBER	K	473	TRCONMJC	
MOBILITY TYPE	K	249	MOBTYPJC	
OPERATIONAL WEIGHT EMPTY/LOADED		276	-----	
MILITARY LOAD CLASSIFICATION EMPTY/LOADED		241	-----	
SHIPPING WEIGHT EMPTY/LOADED		381	-----	
CREST ANGLE		063	CREANGJC	
TRACKED GROUND PRESSURE		456	TRGRPRJC	
TRACKED ROAD WHEEL WEIGHT		459	TRRWWTJC	
TRACKED PADS TOUCHING		458	TRNUPTJC	
TRACKED PAD SHOE AREA		457	TRPSARJC	
WHEELED INFLATION PRESSURE		507	WHINPRJC	
WHEELED NUMBER OF PLIES		508	WHNUPLJC	

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
WHEELED NUMBER TIRES		509	WHNUTIJC	
WHEELED TIRE LOAD RATINGS		510	WHTLDRJC	
WHEELED TIRE SIZE		512	WHTIFTJC	
WHEELED WEIGHT RATINGS		513	WHWERAJC	
AXLE LENGTH		029	-----	
SKID NUMBER OF SKIDS		264	SNUMSKJC	
SKID AREA		384	SDSICGJC	
<b>Table JD. TRANSPORTED END ITEM NARRATIVE</b>				
TRANSPORTED END ITEM NARRATIVE CODE	K	474	TREINCJD	
WHEELED TIRE REQUIREMENTS NARRATIVE		511		
SKID REMARKS		385		
TURNING INFORMATION		477		
WHEELED AXLE AND SUSPENSION REMARKS		506		
TRANSPORTED OTHER EQUIPMENT		475		
<b>Table JE. TRANSPORT BY FISCAL YEAR</b>				
TRANSPORT FISCAL YEAR	K	145	TRAFYRJE	
FIRST QUARTER PROCUREMENT QUANTITY		298	FIQPQTJE	
SECOND QUARTER PROCUREMENT QUANTITY		298	SQPQTYJE	
THIRD QUARTER PROCUREMENT QUANTITY		298	TQPQTYJE	
FOURTH QUARTER PROCUREMENT QUANTITY		298	FQPQTYJE	
<b>Table JF. TRANSPORTATION NARRATIVE</b>				
TRANSPORTATION NARRATIVE CODE	K	470	TRANCDJF	
TRANSPORTATION SHOCK VIBRATION REMARKS		382	TRANARJF	
LIFTING AND TIEDOWN REMARKS		192	TRANARJF	
TRANSPORTATION PROJECT REMARKS		471	TRANARJF	
REGULATORY REQUIREMENTS		340	TRANARJF	
TRANSPORTATION REMARKS		472	TRANARJF	
SPECIAL SERVICE AND EQUIPMENT		398	TRANARJF	
SECTIONALISED REMARKS		368	TRANARJF	
TRANSPORTED TO AND FROM		476	TRANARJF	

Part I LSAR DATA REQUIREMENTS FORM DATA ELEMENT TITLE	KEY	DED	CODE	Section 2 REQUIRED
ENVIRONMENTAL CONSIDERATIONS		099	TRANARJF	
MILITARY DISTANCE CLASSIFICATION		240	TRANARJF	
UNUSUAL AND SPECIAL REQUIREMENTS		500	TRANARJF	
VENTING AND PROTECTIVE CLOTHING		504	TRANARJF	
DISASTER RESPONSE FORCE REQUIREMENTS		082	TRANARJF	

Part II PROVISIONING REQUIREMENTS DATA ELEMENT TITLE	LSAR DATA REQUIREMENTS FORM							Section 2			
				LSA	R	P	M		R	R	T
				36	E	T	C		S	C	T
				CARD	Q	D	N		P	I	E
	KEY	DED	CODE	BLOCK	D	L			L	L	L
CROSS FUNCTIONAL REQUIREMENT											
Table XC. SYSTEM/END ITEM (SEE ALSO PART I)											
USABLE ON CODE	G	501	UOCSEIXC	D-43							
SYSTEM PROVISIONING CONTRACT CONTROL NUMBER	G	307	PCCNUMXC	A-1	Y						
SYSTEM/EI PROVISIONING LIST ITEM SEQUENCE NUMBER		309	PLISNOXC	A-2							
SYSTEM/EI TYPE OF CHANGE CODE		481	TOCCODXC	A-3							
SYSTEM/EI QUANTITY PER ASSEMBLY		316	QTYASYXC	C-32							
SYSTEM/EI QUANTITY PER END ITEM		317	QTYPEIXC	C-33							
Table XD. SYSTEM/END ITEM SER. No.											



Part II PROVISIONING REQUIREMENTS DATA ELEMENT TITLE	LSAR DATA REQUIREMENTS FORM							Section 2			
				LSA	R	P	M		R	R	T
				36	E	T	C		S	C	T
				CARD	Q	D	N		P	I	E
	KEY	DED	CODE	BLOCK	D	L			L	L	L
(SEE ALSO PART I)											
PACKING AND PROVISIONING REQUIREMENT											
Table HA. ITEM IDENTIFICATION (SEE ALSO PART III)											
CAGE CODE	F	046	CAGECDXH	A-5	Y						
REFERENCE NUMBER	K	337	REFNUMHA	A-6	Y						
ITEM NAME		182	ITNAMEHA	A-12	Y						
ITEM NAME CODE		183	INAMECHA	J-89							
REFERENCE NUMBER CATEGORY CODE		338	REFNCCHA	A-7							
REFERENCE NUMBER VARIATION CODE		339	REFNVCHA	A-8							
DLSC SCREENING REQUIREMENT CODE		073	DLSCRCHA								
DOCUMENT IDENTIFIER CODE		087	DOCIDCHA								
ITEM MANAGEMENT CODE		181	ITMMGCHA	E-64							
NATIONAL STOCK NUMBER (NSN)		253	-----	B-15	Y						
UNIT OF ISSUE CONVERSION FACTOR		489	UICONVHA	B-20	Y						
SHELF LIFE		377	SHLIFEHA	A-13							
SHELF LIFE ACTION CODE		378	SLACTNHA	A-14							
PROGRAM PARTS SELECTION LIST		302	PPSLSTHA	A-10							
DOCUMENT AVAILABILITY CODE		086	DOCAVCHA	A-9							
PRODUCTION LEAD TIME		299	PRDLDTA	B-24	Y						
SPECIAL MATERIAL CONTENT CODE		395	SPMACCHA	D-47							
SPECIAL MAINTENANCE ITEM CODE		392	SMAINCHA	D-49							
CRITICALITY CODE		066	CRITCDHA	J-88							
PRECIOUS METAL INDICATOR CODE		293	PMICODHA	B-27							

Part II PROVISIONING REQUIREMENTS DATA ELEMENT TITLE	LSAR DATA REQUIREMENTS FORM										Section 2		
				LSA	R	P	M		R	R	T		
				36	E	T	C		S	C	T		
				CARD	Q	D	N		P	I	E		
	KEY	DED	CODE	BLOCK	D	L			L	L	L		
SPARES ACQ INTEGRATED WITH PRODUCTION		391	SAIPCDHA										
PROVISIONING LIST CATEGORY CODE		308	-----	D-48									
PHYSICAL SECURITY PILFERAGE CODE		291	PHYSECHA	B-26									
ADP EQUIPMENT CODE		027	ADPEQPHA	B-28									
DEMILITARISATION CODE		076	DEMILIHA	B-23									
ACQUISITION METHOD CODE	G	003	ACQMETHA	E-62									
ACQUISITION METHOD SUFFIX CODE	G	004	AMSUFCHA	E-63									
HAZARDOUS MATERIALS STORAGE COST		156	HMSCOSHA										
HAZARDOUS WASTE DISPOSAL COST		157	HWDCOSHA										
HAZARDOUS WASTE STORAGE COST		158	HWSCOSHA										
Contractor TECHNICAL INFORMATION CODE		058	CTICODHA	E-61									
UNIT OF MEASURE		491	UNITMSHA	B-16	Y								
UNIT OF ISSUE		488	UNITISHA	B-18	Y								
LINE ITEM NUMBER		193	LINNUMHA										
CRITICAL ITEM CODE		065	CRITITHA										
INDUST MATERIALS ANALYSIS OF CAPACITY	Y	163	INDMATHA										
MATERIAL LEADTIME		219	MTLEADHA										
MATERIAL WEIGHT		220	MTLWGTHA										
MATERIAL		218	²MATERLHA	M-92									
<b>Table HB. ADDITIONAL REFERENCE NUMBER</b>													
ARN ITEM CAGE CODE		046	CAGECDHB	A-5	Y								
ADDITIONAL REFERENCE NUMBER	K	006	ADDREFHB	A-6	Y								

Part II PROVISIONING REQUIREMENTS DATA ELEMENT TITLE	LSAR DATA REQUIREMENTS FORM							Section 2			
				LSA	R	P	M		R	R	T
				36	E	T	C		S	C	T
				CARD	Q	D	N		P	I	E
	KEY	DED	CODE	BLOCK	D	L			L	L	L
ARN REFERENCE NUMBER CATEGORY CODE		338	ADRNCCHB	A-7							
ARN REFERENCE NUMBER VARIATION CODE		339	ADRNVCHB	A-8							
<b>Table HC. Contractor CAGE CTIC CAGE CODE</b>											
CTIC CAGE CODE	F	046	CTCAGEHC								
<b>Table HD. ITEM UNIT OF ISSUE PRICE</b>											
UNIT OF ISSUE (UI) PRICE	K	490	UINPRICH	B-19	Y						
UI PRICE LOT QUANTITY		205	-----								
UI PRICE CONCURRENT PRODUCTION CODE		051	CURPRCHD								
UI PRICE TYPE OF PRICE CODE		485	TUIPRCHD								
UI PRICE PROVISIONING		314	PROUIPHD								
UI PRICE FISCAL YEAR		145	FISCYRHD								
<b>Table HE. ITEM UNIT OF MEASURE PRICE</b>											
UNIT OF MEASURE (UM) PRICE	K	492	UMPRICHE	B-17							
UM PRICE LOT QUANTITY		205	-----								
UM PRICE CONCURRENT PRODUCTION CODE		051	CURPRCHE								
UM PRICE TYPE OF PRICE CODE		485	TUMPRCHE								
UM PRICE PROVISIONING		314	PROUMPHE								
UM PRICE FISCAL YEAR		145	FISCYRHE								
<b>Table HG. PART APPLICATION PROVISIONING</b>											
END ITEM ACRONYM CODE	F	096	EIACODXA		Y						
LSA CONTROL NUMBER (LCN)	F	199	LSACONXB	H-77	Y						

Part II PROVISIONING REQUIREMENTS DATA ELEMENT TITLE	LSAR DATA REQUIREMENTS FORM							Section 2			
				LSA	R	P	M		R	R	T
				36	E	T	C		S	C	T
				CARD	Q	D	N		P	I	E
	KEY	DED	CODE	BLOCK	D	L			L	L	L
ALTERNATE LCN CODE	F	019	ALTLCNXB	H-78	Y						
LCN TYPE	F	203	LCNTYPXB		Y						
PROV. LIST ITEM SEQUENCE NO (PLISN)		309	PLISNOHG	A-2	Y						
QUANTITY PER ASSEMBLY		316	QTYASYHG	C-32	Y						
OPTION 1											
OPTION 2	N										
OPTION 3											
SUPPRESSION INDICATOR		422	SUPINDHG								
DATA STATUS CODE		070	DATASCHG								
PROVISIONING SYSTEM IDENTIFIER CODE	C	312	PROSICHG								
PTD SELECTION CODE		313	-----								
TYPE OF CHANGE CODE		481	TOCCODHG	A-3							
INDENTURE CODE		162	INDCODHG	A-4	Y						
ATTACHING PART/HARDWARE											
OPTION 1											
OPTION 2											
OPTION 3											
OPTION 4											
OPTION 5											
INDENTURE FOR KITS											
OPTION 1											
OPTION 2											
OPTION 3											
QUANTITY PER END ITEM		317	QTYPEIHG	C-33	Y						

Part II PROVISIONING REQUIREMENTS DATA ELEMENT TITLE	LSAR DATA REQUIREMENTS FORM							Section 2			
				LSA	R	P	M		R	R	T
				36	E	T	C		S	C	T
				CARD	Q	D	N		P	I	E
	KEY	DED	CODE	BLOCK	D	L			L	L	L
OPTION 1											
OPTION 2	N										
OPTION 3	C										
PRIOR ITEM PLISN		297		C-39							
SAME AS PLISN		364	SAPLISHG	C-38							
HARDNESS CRITICAL ITEM		151	HARDCIHG	B-25							
REMAIN IN PLACE INDICATOR		348	REMPIHG	E-65							
LINE REPLACEABLE UNIT		194	LRUNITHG	J-90	Y						
ITEM CATEGORY CODE		177	ITMCATHG		Y						
ESSENTIALITY CODE		100	ESSCODHG	A-11							
SOURCE. MAINT. AND RECOVERABILITY CODE		389	SMRCODHG	B-22	Y						
MAINTENANCE REPLACEMENT RATE I		211	MRRONEHG	C-34	Y						
MAINTENANCE REPLACEMENT RATE II		212	MRRTWOHG	C-35							
OPTION 1											
OPTION 2											
MAINTENANCE REPLACEMENT RATE MODIFIER		213	MRRMODHG	C-36							
REPLACEMENT TASK DISTRIBUTION RTD		355	-----	E-59							
MINIMUM REPLACEMENT UNIT		245	MINREUHG	D-52							
MAXIMUM ALLOWABLE OPERATING TIME		221	MAOTIMHG	C-40	Y						
MAINTENANCE ACTION CODE		206	MAIACTHG	C-41	Y						
RECOMMENDED INITIAL SYSTEM STOCK BUY		328	RISSBUHG	D-54							
RECOMMENDED MINIMUM SYSTEM STOCK LEVEL	EL	329	RMSSLIHG	D-53							

Part II PROVISIONING REQUIREMENTS DATA ELEMENT TITLE	LSAR DATA REQUIREMENTS FORM							Section 2			
				LSA	R	P	M		R	R	T
				36	E	T	C		S	C	T
				CARD	Q	D	N		P	I	E
	KEY	DED	CODE	BLOCK	D	L			L	L	L
RECOMMENDED TENDER LOAD LIST QUANTITY	YN	331	RTLLQTHG	D-55							
TOTAL QUANTITY RECOMMENDED		453	TOTQTYHG	C-37	Y						
MAINTENANCE TASK DISTRIBUTION (MTD)		214	-----	E-57							
REPAIR CYCLE TIME (RCT)		350	-----	E-58	Y						
OPTION 1											
OPTION 2											
NOT REPAIRABLE THIS STATION	R	261	NORETSHG	C-42							
REPAIR SURVIVAL RATE		351	REPSURHG	D-56							
DESIGNATED REWORK POINT		081	-----	E-60							
WORK UNIT CODE		516	WRKUCDHG	J-86							
ALLOWANCE ITEM CODE		017	ALLOWCHG	D-50							
<b>Table HH. OVERHAUL-KIT NEXT HIGHER ASSEMBLY PLISN</b>											
NEXT HIGHER ASSEMBLY (NHA) PLISN	K	258	NHAPLIHH	C-29	Y						
NHA PLISN INDICATOR		259	NHAINDHH	C-30							
OVERHAUL REPLACEMENT RATE		281	OVHREPHH	C-31							
<b>Table HI. PROVISIONING REMARK</b>											
PROVISIONING REMARKS		311	REMARKHI	H-79							
<b>Table HJ. PROVISIONING REFERENCE DESIGNATION</b>											
REFERENCE DESIGNATION	K	335	REFDESHJ	D-44							
OPTION 1											
OPTION 2											
OPTION 3											

Part II PROVISIONING REQUIREMENTS DATA ELEMENT TITLE	LSAR DATA REQUIREMENTS FORM							Section 2			
				LSA	R	P	M		R	R	T
				36	E	T	C		S	C	T
				CARD	Q	D	N		P	I	E
	KEY	DED	CODE	BLOCK	D	L			L	L	L
OPTION 4											
OPTION 5											
REFERENCE DESIGNATION CODE	K	336	RDCODEHJ	D-46							
TECHNICAL MANUAL (TM) CODE		437	TMCODEXI								
FIGURE NUMBER		144	FIGNUMHK								
ITEM NUMBER		184	ITEMNOHK								
<b>Table HK. PARTS MANUAL DESCRIPTION</b>											
TECHNICAL MANUAL (TM) CODE	F	437	TMCODEXI	J-80							
FIGURE NUMBER	K	144	FIGNUMHK	J-81							
ITEM NUMBER	K	184	ITEMNOHK	J-82							
TM FUNCTIONAL GROUP CODE		438	TMFGCDHK	J-86							
TM INDENTURE CODE		439	TMINDCHK	J-84							
QUANTITY PER FIGURE		318	QTYFIGHK	J-85							
TM CHANGE NUMBER		436	TMCHGNHK	J-83							
<b>Table HL. PARTS MANUAL PROVISIONING NOMENCLATURE</b>											
PROVISIONING NOMENCLATURE		310	PROVNOHL	K-91							
<b>Table HM. ITEM. BASIS OF ISSUE</b>											
BASIS OF ISSUE	K	030	-----	J-87							
<b>Table HN. PROVISIONING SERIAL NUMBER USABLE ON CODE</b>											
S/N PROVISIONING SYSTEM/EI LCN (DIs ONLY)	F	199	LCNSEIHN								
S/N PROVISIONING SYSTEM/EI ALC (DIs ONLY)	F	019	ALCSEIHN								

Part II PROVISIONING REQUIREMENTS DATA ELEMENT TITLE	LSAR DATA REQUIREMENTS FORM								Section 2		
				LSA	R	P	M		R	R	T
				36	E	T	C		S	C	T
				CARD	Q	D	N		P	I	E
	KEY	DED	CODE	BLOCK	D	L			L	L	L
S/N PROVISIONING SERIAL NUMBER (Dis ONLY)	F	337	-----								
<b>Table HO. PROVISIONING SYSTEM/END ITEM USABLE ON CODE</b>											
UOC PROVISIONING SYSTEM/EI LCN (Dis ONLY)	F	199	LCNSEIHO								
UOC PROVISIONING SYSTEM/EI ALC (Dis ONLY)	F	019	ALCSEIHO								
<b>Table HP. DESIGN CHANGE INFORMATION</b>											
CHANGE AUTHORITY NUMBER	K	043	CANUMBHP	F-66	Y						
REPLACED OR SUPERSEDING (R S) PLISN		353	RSPLISHP	F-70							
R S PLISN INDICATOR		354	RSPINDHP	F-71							
INTERCHANGEABILITY CODE		172	INTCHCHP	F-67							
TOTAL ITEM CHANGES		452	TOTICHHP	F-69							
OPTION 1											
OPTION 2											
QUANTITY SHIPPED		323	QTYSHPHP	F-72							
QUANTITY PROCURED		322	QTYPROHP	F-73							
PRORATED EXHIBIT LINE ITEM NUMBER		305	PROELIHP	G-75							
PRORATED QUANTITY		306	PROQTYHP	G-76							
<b>Table HQ.SERIAL NUMBER EFFECTIVITY</b>											
SERIAL NUMBER EFFECTIVITY (Dis ONLY)	K	374	-----	F-68							
<b>Table HR.DESIGN CHANGE USABLE ON CODE</b>				F-74							



**DID SMP-IL-005 Supply Support Plan**

<b>1. TITLE</b> Supply Support Plan		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-005	
<b>3. DESCRIPTION/PURPOSE</b> The Supply Support Plan describes the management, organisations, procedures, tasks and schedule to be used in performing supply support activities specified.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B, D-01-100-214/SF-000			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. Best commercial practices should be used for charts, tables, matrices, page numbering and document control numbering.</p> <p>10.2. The Supply Support Plan shall be prepared in the Contractor's format and shall consist as a minimum of the following sections:</p> <p>10.2.1 Title Page;</p> <p>10.2.2 Table of Contents;</p> <p>10.2.3 Document Control Log;</p> <p>10.2.4 Revision Record;</p> <p>10.2.5 Plan Subject Matter;</p> <p>10.2.6 Notes; and</p> <p>10.2.7 Appendices.</p> <p>10.3 The Supply Support Plan Subject Matter shall address in detail all aspects of Supply Support requirements of the contract.</p> <p>10.4 The plan shall contain but not be limited to the following information and sections:</p> <p>10.4.1 <u>Section I - Introduction</u>. This section shall define the scope, purpose and application of the ILSP, related documents and mechanism to amend the plan.</p> <p>10.4.2 <u>Section II - Management/Organisation</u>. This section shall describe both the Contractor and subcontractor organizations and management procedures for performing Supply Support work. The Contractor should identify (by name) the key points of contact for Supply Support and their area of responsibility and links to the overall Supply Support Program. Plans for the conduct of</p>			

review and meetings as they relate to Supply Support shall also be discussed.

- 10.4.3 Section III - WBS/Schedule of Activities and Milestones. This section shall include summary tasks and milestone events extracted from the Master Project Schedule and Work Breakdown Structure (CDRL SMP-PM-003 and DID SMP-PM-003) to show the time-phased workflow of the Supply Support tasks, events, deliverables, as well as key inter-dependencies from other ILS areas.
- 10.4.4 Section IV – Parts and Tooling Distribution. A full description of how spares and tooling will be ordered, processed and delivered in order to meet Canada's demands shall be provided.
- 10.4.5 Section V - Initial Provisioning This section shall demonstrate conformance to all controls and processes as directed in D-01-100-214/SF-000 relating to the preparation and provisioning of Supplementary Provisioning Technical Documentation (SPTD) to DND to facilitate cataloguing activities.
- 10.4.6 Section VI - Replacement and Reimbursement Plan. A detailed description of the provisions made for reimbursement or replacement of major assemblies and items purchased by Canada based on ISL, IP and STTEL, which are subsequently changed, found not suitable for the intended task or substituted by the Contractor.

**DID SMP-IL-006 Provisioning Documentation**

<b>1. TITLE</b> Provisioning Documentation		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-006	
<b>3. DESCRIPTION/PURPOSE</b> Provisioning Documentation provides the data needed by Canada to identify, catalogue, calculate and procure the range and depth of repairable and consumable spares needed by each line of maintenance provisioned by Canada (and as installation and checkout spares).			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B, D-01-100-214/SF-000			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The Provisioning Data shall be prepared in a Microsoft Excel Spreadsheet in accordance with CF Specification D-01-100-214/SF-000. 10.2. The Provisioning Documentation shall contain the data elements specified in Table 1 – Provisioning Documentation Data Elements, for each item considered for provisioning.			

DATA FIELDS REQUIRED	Field Length	PPB	RSPL	LLTIL	ISL
Item Number (Unique Sequence No. for each list)	6	Yes	Yes	Yes	Yes
Indenture Code	1	Yes	Yes	Yes	Yes
Item Name	19	Yes	Yes	Yes	Yes
MRN (manufacturer's part)	31	Yes	Yes	Yes	Yes
NSCM/CAGE	5	Yes	Yes	Yes	Yes
OEM's Part Number	17	Yes	Yes	Yes	Yes
NATO Stock Number (if appl)	16	Yes			
Quantity Per Assembly	4	Yes			
Standard Unit Price	9	Yes	Yes	Yes	Yes
Unit Of Issue	2	Yes	Yes	Yes	Yes
Reparability Indicator (REP)	1	Yes	Yes	Yes	Yes
Government Supplied Material (GSM)	1	Yes			
Procurement Lead Time (PLT)	3	Yes	Yes	Yes	Yes
Reference Designation	18	Yes	Yes	Yes	Yes
Shelf Life	2	Yes	Yes	Yes	Yes
Usage Rate	5	Yes	Yes	Yes	Yes
Recommended Buy Quantity	8	No	Yes	Yes	Yes
Recommended Re-Order Point	5	No	Yes	Yes	Yes
Economic Buy Quantity	5	No	Yes	Yes	Yes
SMR Code	10	Yes	Yes	Yes	Yes
Expanded Description	34	Yes			
Expanded Description	33	Yes			
Spares Order Date	10	No	Yes	Yes	Yes
Demilitarization Code (DMC)	1	Yes	Yes	Yes	Yes

**TABLE 1 – Provisioning Documentation Data Elements**

**DID SMP-IL-007 Special Tools And Test Equipment List**

<b>1. TITLE</b> Special Tools and Test Equipment List		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-007	
<b>3. DESCRIPTION/PURPOSE</b> The STTE List Identifies the support equipment needed to operate, maintain, and transport the Vehicle, APS and Trailer and to train personnel.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. For each required item of STTE include: 10.1.1 STTE Item Name; 10.1.2 STTE Reference (Manufacturer's Part) Number; 10.1.3 NSCM/CAGE Code; 10.1.4 NSN (if available); 10.1.5 Maintenance Level; 10.1.6 Recommended Buy Quantity; 10.1.7 Standard Unit Price; 10.1.8 Packaging requirements; and 10.1.9 Picture or Drawing of item. 10.2. For complex STTE, including automatic test equipment, also include description and function of STTE. 10.3. The above list should be divided into sections as appropriate:			

- 10.3.1 Common Hand Tools;
- 10.3.2 Special Purpose Tools;
- 10.3.3 Diagnostic Tools;
- 10.3.4 Operator Maintenance Tools;
- 10.3.5 Maintenance Support Equipment;
- 10.3.6 Ground Handling Equipment;
- 10.3.7 Calibration Equipment;
- 10.3.8 Metrology Equipment;
- 10.3.9 Technical Publications Viewers, Readers and Consoles;
- 10.3.10 Test, Measurement and Diagnostic Equipment (TMDE):
  - a. General Purpose; and
  - b. Special Purpose;
- 10.3.11 Maintenance Jigs and Fixtures;
- 10.3.12 Automatic Test Equipment (ATE) and its Test Program Set (TPS);
- 10.3.13 Test and Diagnostic Facility;
- 10.3.14 Computer Resources Support Requirement; and
- 10.3.15 Manuals/Technical Instructions for the proper use of the STTE.
- 10.4 The STTE List shall identify any recommended STTE already in the CF Inventory (Appendix BI).
- 10.5 The STTE List shall be in a Microsoft Excel Spreadsheet.

**DID SMP-IL-008    Supplementary Provisioning Technical Documentation**

<b>1. TITLE</b> Supplementary Provisioning Technical Documentation (SPTD)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-008	
<b>3. DESCRIPTION/PURPOSE</b> The SPTD uniquely identifies, for cataloguing purposes, each item in each provisioning list.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B, D-01-100-214/SF-000			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The SPTD shall include sufficient data to clearly define each item for cataloguing. The SPTD shall include: 10.1.1 Item Name; 10.1.2 Reference (Manufacturer's Part) No; 10.1.3 CAGE Code; and 10.1.4 Name and address of the actual manufacturer of the item. 10.2 The SPTD shall include, as applicable: 10.2.1 Configuration - drawing of item (Manufacturer's Engineering drawing, level 2 standard); assembly, wiring or schematic drawing; illustrated parts list; 10.2.2 Technical specification, including relevant standards; 10.2.3 Physical characteristics, such as dimensions, tolerances, materials, mandatory processes, surface finish, protective coating; 10.2.4 Electrical characteristics; 10.2.5 Performance data, including the environmental and operating conditions under which the item must perform; 10.2.6 Mounting requirements; 10.2.7 Special features which contribute to the uniqueness of the item; 10.2.8 Manufacturers Bar Code Number; 10.2.9 Item application; and 10.2.10 Commercial catalogue data.			

- 10.3 The SPTD shall be sequenced in the same order as the provisioning list that it supplements.
- 10.4 The SPTD shall include identification of any limitations on the use or publication of any data provided.
- 10.5 The SPTD shall include the Contractor assigned part numbers for items for which the Contractor is not OEM.
- 10.6 SPTD shall be prepared IAW the D-01-100-214/SF-000 Specification for Preparation of Provisioning Parts Breakdown for Canadian Forces Equipments.
- 10.7 The SPTD shall be in a Microsoft Excel Spreadsheet.



**DID SMP-IL-009 Repair and Overhaul Candidate Items List (ROCIL)**

<b>1. TITLE</b> Repair and Overhaul Candidate Items List (ROCIL)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-009	
<b>3. DESCRIPTION/PURPOSE</b> The ROCIL uniquely identifies Repair and Overhaul Candidate Items.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The ROCIL shall include sufficient data to clearly define each item that will require Repair and Overhaul. The ROCIL shall include:  10.1.1. Nato Stock Number (NSN) If available; 10.1.2. Item Name; 10.1.3. Turn Around Time (TAT); 10.1.4. Manufacturer Name; 10.1.5. Part Number; 10.1.6. Mean Time Between Failure; 10.1.7. Annual Wastage Rate (Beyond Repair); 10.1.8. Unit Price to Procure; 10.1.9. Suggested Maximum Repair Cost; and 10.1.10. Historical Repair Cost.  10.2. The ROCIL shall be in table format.  10.3. The ROCIL shall be in a Microsoft Excel Spreadsheet.			

**DID SMP-IL-010    Materiel Change Notices**

<b>1.    TITLE</b> Materiel Change Notices (MCNs)		<b>2.    IDENTIFICATION NUMBER</b> DID SMP-IL-010	
<b>3.    DESCRIPTION/PURPOSE</b> Material Change Notices (MCNs) provide the information required whenever changes to provisioning documentation occurs.			
<b>4.    APPROVAL DATE</b> N/A	<b>5.    OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6.    GIDEP APPLICATION</b> N/A
<b>7.    APPLICATION/INTERRELATIONSHIP</b> Annex B, D-01-100-215/SF-000			
<b>8.    ORIGINATOR</b> SMP ILS Coordinator		<b>9.    APPLICABLE FORMS</b> N/A	
<b>10.   PREPARATION INSTRUCTIONS</b> 10.1.    Material Change Notice (MCN) shall be prepared IAW the latest issue of DND Specification D-01-100-215/SF-000 - Preparation of Material Change Notice.			

**DID SMP-IL-011 Identification Plates**

<b>1. TITLE</b> Identification Plates		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-011	
<b>3. DESCRIPTION/PURPOSE</b> Identification Plates uniquely identify equipment and components or spares.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B, C-02-006-002/AG-000 CFTO Information on Markings on Canadian Forces D-02-002-001/SG-001 Canadian Forces Standard for Identification and Marking of Canadian Military Property			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> DND Form CF 271	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The Identification Plates will have the following data affixed to each item deemed necessary by Canada: 10.1.1. Item Name; 10.1.2. Reference (Manufacturer's Part) Number; 10.1.3. NSCM/CAGE code; and 10.1.4. NATO Stock Number (if assigned).			

### DID SMP-IL-012 Identification, Shipping and Packaging Data

<b>1. TITLE</b> Identification, Shipping and Packaging Data		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-012	
<b>3. DESCRIPTION/PURPOSE</b> Packaging Data identifies packaging requirements for items to be shipped to or stored at a Canada facility (such as spare parts, bulk items, special tools, support equipment, test equipment and training equipment).			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B C-02-006-002/AG-000 CFTO Information on Markings on Canadian Forces D-02-002-001/SG-001 Canadian Forces Standard for Identification and Marking of Canadian Military Property D-LM-008-011/SF-001; MIL-STD-2073-1E.			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> DND Form CF 271	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 Content: List the following data: 10.1.1 Item Identification; <ul style="list-style-type: none"> <li>a. Item Name/Item Description (DED 182) (GEIA 2790);</li> <li>b. Reference (Manufacturer's Original Part) Number (DED 337) (GEIA 4400);</li> <li>c. Original Batch/Lot Number;</li> <li>d. Serial Number;</li> <li>e. Current Part Number;</li> <li>f. Current Batch/Lot Number;</li> <li>g. NATO Supply Code for Manufacturers (NSCM)/Commercial and Government Entity (CAGE) code (DED 046) (GEIA 1520); and</li> <li>h. NATO Stock Number (if assigned) (DED 253) (GEIA 3520).</li> </ul>			

10.1.2. Shipping Data:

- a. Contract Number;
- b. Contract Line Number;
- c. Ship-To Location;
- d. Ship Date;
- e. Unit of Purchase; and
- f. Price per Unit of Purchase.

10.1.3. Packaging Data:

- a. Unit Pack Size (length, width, height or depth) (metres) (DED 494) (GEIA 2890);
- b. Volume
- c. Unit Pack Weight (kg) (DED 494) (GEIA 5830);
- d. Packing Code (Level A, B, C) (DED 283) (GEIA 3410) and IAW D-LM-008-011/SF-001;
- e. Hazardous Code (Regulated/Non-regulated) (DED 154) (GEIA 2370);
- f. Packaging Instructions when packaging IAW D-LM-008-001/SF-001.
- g. Special packaging instruction (for items on Special PHST Consideration Items List);
- h. Special Reusable Container List (DED 396) (GEIA 4920); and
- i. Shelf Life Data (if applicable)
  - (i) Date of manufacture;
  - (ii) Shelf-life expiry date; and
  - (iii) Storage environment restrictions such as no freezing, no sunlight.

**Notes:**

10.1.4. To reduce the need for redundant data, similar items may be grouped with the same packaging data applying to the group

10.1.5. The Canadian Forces Supply System requires size in meters and weight in kilograms.

10.1.6. To use the special packaging instruction number, an enumerated list of instructions, consistent as possible with MIL-STD-2073-1E, shall be prepared.

**PACKAGING INSTRUCTIONS**

10.2. Packaging Data must be provided in accordance with requirements of D-LM-008-011/SF-001 to provide the data necessary to complete DND Form CF 271.

10.3. In the exceptional case when the packaging of an item cannot be properly described by the coding in D-LM-008-011/SF-001 or by general specifications, it must be described and illustrated using sketches or drawings, etc.

10.4. Data must be provided for every procurable item available which has a provisioning unit of measure price equal or greater than three hundred dollars (\$300) Canadian.

10.5. Data must be provided for every new to DND line item ordered by DND through the Contractor

which has a provisioning unit of measure price equal or greater than three hundred dollars (\$300) Canadian.

- 10.6. Ordered items must have priority over all other items requiring data except as follows:
- a. Procurable items with a provisioning unit of measure price less than \$300 and consumable Items which have a line item value of less than \$300 unless that item is included in the Special PHST List;
  - b. Items packaged in accordance with:
    - (1) D-LM-008-015/SF-000, Piezoelectric Crystals;
    - (2) D-LM-008-026/SF-001, Gaskets/O-rings;
    - (3) D-LM-008-030/SF-001, Hoses;
    - (4) D-LM-008-035/SF-001, ESD Sensitive;
    - (5) D-LM-008-036/SF-000, DND's Minimum Requirements;
    - (6) D-LM-008-037/SF-000, Antifriction Bearings; and
    - (7) D-84-001-007/SF-001 General Purpose Containers - Electronic Assemblies.

In these instances, a list of items must be created for each specification.

**DID SMP-IL-013    Technical Documentation Management Plan**

<b>1.    TITLE</b> Technical Documentation Management Plan		<b>2.    IDENTIFICATION NUMBER</b> DID SMP-IL-013	
<b>3.    DESCRIPTION/PURPOSE</b> The TDMP defines the management, organisation, procedures, schedule and detailed plan to be used by the Contractor in meeting the requirements for the development, production and delivery of Technical Documentation.			
<b>4.    APPROVAL DATE</b> N/A	<b>5.    OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6.    GIDEP APPLICATION</b> N/A
<b>7.    APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8.    ORIGINATOR</b> SMP ILS Coordinator		<b>9.    APPLICABLE FORMS</b> N/A	
<b>10.    PREPARATION INSTRUCTIONS</b>  10.1.    Best commercial practices should be used for charts, tables, matrices, page numbering and document control numbering.  10.2.    The Technical Documentation Management Plan (TDMP) shall be prepared in the Contractor's format and shall consist as a minimum of the following sections: 10.2.1    Title Page; 10.2.2    Table of Contents; 10.2.3    Document Control Log; 10.2.4    Revision Record; 10.2.5    Plan Subject Matter; 10.2.6    Notes; and 10.2.7    Appendices.  10.3    The TDMP shall address the methodology for accomplishing all tasks related to the production and delivery of publications.  10.4    The Plan Subject Matter shall be broken down into the following sections: 10.4.1 <u>Section I – Introduction</u> . This section shall define the scope, purpose and application of the TDMP and related documents. 10.4.2 <u>Section II - Management/Organisation</u> . The plan shall include a description of the operation of			

the documentation department organization, as well as specifics on the SMP contract, management procedures, interfaces and reporting/tracking systems for control of documentation activities. The Contractor's Documentation Manager and sub-section managers should be identified by name in a Documentation Organisation Chart.

- 10.4.3 Section III - Content. The TDMP shall describe the Contractor's plan to produce, translate, update and deliver all Technical Documentation required to operate, maintain and support the system/equipment. The Plan shall include the following:
- 10.4.3.1 A description of the system/equipment for which the Technical Documentation Program is applicable.
  - 10.4.3.2 The proposed digital format in which the data item is to be provided for Text, Graphics and Product Data.
  - 10.4.3.3 The media i.e., on-line access e.g., Contractor Integrated Technical Information System (CITIS), physical media and hardware provided (eg. diagnostic tool).
  - 10.4.3.4 A delivery schedule with relevant milestones for preparation, validation, translation (if required), and delivery of the data items.
  - 10.4.3.5 Methods and procedures for controlling each data item.
  - 10.4.3.6 The minimum hardware requirement.
  - 10.4.3.7 Detail describing how the Contractor intends to identify intellectual property and proprietary issues.
  - 10.4.3.8 The methodology for the identification and integration of data items from the LSA process and other relevant studies.
  - 10.4.3.9 The Quality Assurance (QA) and Quality Control (QC) procedures that will be used to perform this work.
  - 10.4.3.10 The work review process that will be in place to review the Technical Documentation within its organization and also with DND.
  - 10.4.3.11 A description of the process to revise and update Technical Documentation (eg. Reprint book, replace pages, update/revise IETM).



**DID SMP-IL-014 Operator Manual**

<b>1. TITLE</b> Operator Manual		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-014	
<b>3. DESCRIPTION/PURPOSE</b> The Operator Manual contains all the essential information required to describe the safe and correct operative procedures associated with the Vehicle, APS and Trailer.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. <b>FORMAT.</b> The Operator Manual shall be one manual and shall be as follows: 10.1.1. Any hazard or danger associated with any safety or precautionary measure to be observed shall be brought to the attention of all personnel concerned. All Warnings, cautions and notes shall be presented Symbolic, color and symbolic and inserted in the appropriate place in the manual. 10.1.2. The National Defence Identification Number (NDID) provided to the Contractor by DND, shall be placed on the first page of the publication (e.g., cover, title page). 10.1.3. Each Operator Manual delivered to DND shall have a cover. Preferred qualities for the cover are as follows: a. They should remain pliable over a wide range of ambient temperatures (+30°C to -30°C). b. Pages should not adhere to the cover. c. Covers should be tear and soil resistant (vinyl type of material is desired). 10.2. <b>CONTENT</b> The Operator Manual shall include, but not limited to: 10.2.1 General Description; 10.2.2 Description of Controls and Instruments; 10.2.3 List of On-board equipment and tools;			

- 10.2.4 Pictural view of location for stowage of the On-board equipment and tools;
  - 10.2.5 Preparation for use;
  - 10.2.6 Operating Under Normal Conditions;
  - 10.2.7 Operating Under Unusual Conditions;
  - 10.2.8 Emergency Operation;
  - 10.2.9 Operation of Ancillary Equipment;
  - 10.2.10 Operator Maintenance;
  - 10.2.11 Preventive Maintenance; and
  - 10.2.12 Any post-shut-down actions or precautions.
- 10.3 ELECTRONIC FORMAT
- 10.3.1 A PDF shall be created from the Electronic Source File and shall be assembled as one complete file, which matches the printed publications format and layout. Links, bookmarks and thumbnails are to be included in the PDF file. Any references made to a specific paragraph, figure or appendix etc must be appropriately linked.
  - 10.3.2 Viewing the PDF: pages, regardless of size, containing text or illustrations in landscape, shall be rotated for electronic viewing and reading in landscape.

**DID SMP-IL-015    Interactive Electronic Technical Manual**

<b>1. TITLE</b> Interactive Electronic Technical Manual (IETM)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-015	
<b>3. DESCRIPTION/PURPOSE</b> An Interactive Electronic Technical Manual is prepared in digital form and designed for interactive display to the maintenance technicians or system operator end users by means of a computer controlled viewer.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The Interactive Electronic Technical Manual (IETM) shall be IAW Appendix BC.			

**DID SMP-IL-016 Training Program Plan**

<b>1. TITLE</b> Training Program Plan (TPP)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-016	
<b>3. DESCRIPTION/PURPOSE</b> The Training Program Plan (TPP) is used as the primary reference for the management and control of the training program. The TPP will identify the responsibilities, processes and procedures required to develop and conduct, Familiarization Training (FT) and Initial Cadre Training (ICT) of SMP equipment and systems.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B, CFITES			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. Best commercial practices are to be used for charts, tables, matrices and document management.  10.2. The TPP shall be prepared in the Contractor's format and, as a minimum, shall contain the following:  10.2.1 Title Page; 10.2.2 Table of Contents; 10.2.3 Document Control Log; 10.2.4 Revision Record; 10.2.5 The Subject Matter; and 10.2.6 Supplementary Information.  10.3. The plan subject matter shall include, but not necessarily be limited to, the following:  10.3.1 <u>Introduction and Concept of Operations (ConOP)</u> . This Section shall provide a brief overview of the purpose and expected application of the document. The ConOp shall provide an overview of the Contractor's proposed training and training support activities in meeting all of the Operator and Technician training requirements, including operator-level preventive and corrective maintenance tasks.  10.3.1.1 Assumptions and Constraints. All assumptions and constraints shall be documented as they pertain to the TPP and which may impact the development or conduct of the training,			

	particularly the location and timing of training.
10.3.1.2	Canadian Forces Individual Training and Education System (CFITES). The TPP shall describe how the requirements of the CFITES shall be met throughout all phases of the TPP (i.e. Analysis, Design, Conduct and Evaluation).
10.3.2	<u>WBS/Schedule of Activities and Milestones</u> . This section shall include summary tasks and milestone events extracted from the Master Project Schedule (CDRL SMP-PM-003 and DID SMP-PM-003) to show the time-phased workflow of the Training tasks, events, deliverables, as well as key inter-dependencies from other areas.
10.3.2.1	Canada Involvement. The TPP shall describe the proposed approach that shall be used to incorporate the Training Development Working Group (TDWG) into all phases of the Work Plan including: Analysis, Design, Development, Conduct and Evaluation phases.
10.3.3	<u>Training Transition</u> .
10.3.4.1.	The TPP shall include a description of Contractor's approach and methodology for the transition of training from Contractor-supported instructor training to DND-supported instructor training. This shall include a complete list of Contractor deliverables to include training documentation, courseware, training aids and their technical manuals, and other training support materials to be delivered to Canada in support of MSVS operator instructor and technician instructor training.
10.3.5.	<u>Training Quality Control/Continuous Improvement</u> .
10.3.5.1.	The TPP shall include the Contractor's approach and methodology for training quality control, continuous improvement, and provision of continuous training and support.

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

**DID SMP-IL-017    Not Used**

**DID SMP-IL-018 Initial Cadre Training Pilot Course Material**

<b>1. TITLE</b> Initial Cadre Training Pilot Course Material		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-018	
<b>3. DESCRIPTION/PURPOSE</b> Training Course Material for ICT Pilot Course.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b>  10.1. ICT Pilot Course Material shall contain the following items as used in the delivery of ICT Pilot Course:  10.1.1. Slides; 10.1.2. Handouts; and 10.1.3. Lesson plan.			

**DID SMP-IL-019 ICT Operator Instructor Course Material**

<b>1. TITLE</b> ICT Operator Instructor Course Material		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-019	
<b>3. DESCRIPTION/PURPOSE</b> Training Course Material for ICT Operator Instructors.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b>  10.1 ICT Operator Instructor Course Material shall contain the following items as used in the delivery of ICT Operator Instructor Course:  10.1.1. Slides; 10.1.2. Handouts; and 10.1.3. Lesson plan.			



**DID SMP-IL-020 ICT Technician Instructor Course Material**

<b>1. TITLE</b> ICT Technician Instructor Course Material		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-020	
<b>3. DESCRIPTION/PURPOSE</b> Course Material for ICT Technician Instructors.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 ICT Technician Instructor Course Material shall contain the following items as used in the delivery of ICT Technician Instructor Course:  10.1.1 Slides; 10.1.2 Handouts; and 10.1.3 Lesson plan.			

### DID SMP-IL-021 Training Resource List

<b>1. TITLE</b> Training Resource List		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-021	
<b>3. DESCRIPTION/PURPOSE</b> The Training Resources List identifies the resources required in support of the training courses identified by the Contractor. This list includes equipment, tools, and spares and repair parts.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b>  10.1. The Training Resource List shall be divided into separate sections for Operator and Technician training as appropriate:  10.1.1. <b>Existing Training Equipment.</b> The list shall identify existing training equipment that should be considered in the support of training.  10.1.2. <b>Training Devices.</b> The list shall identify recommended training devices such as simulators, part task trainers, computer based education systems, mock-ups, audio visual aids and essential training devices.  10.1.2.1. Justification for the recommended selection of training equipment and devices shall be provided. Substantiation of the training effectiveness of any simulators proposed and a description of the training functions simulated shall be included.  10.1.2.2. The essential training devices list shall include the following items:  10.1.2.2.1. Power Pack assembly, engine coupled with a transmission, mounted on a run-up stand capable to support operation of both components;  10.1.2.2.1.1. The run-up stand shall be self-contained and include:  10.1.2.2.1.1.1. Fuel system; 10.1.2.2.1.1.2. Engine controls; 10.1.2.2.1.1.3. Transmission hydraulics;			

- 10.1.2.2.1.1.4. Transmission electronic controls;
- 10.1.2.2.1.1.5. Test/diagnostics;
- 10.1.2.2.1.1.6. Air intake system; and
- 10.1.2.2.1.1.7. Maintenance.
- 10.1.2.2.1.2. It must be able to operate without any external connections and be able to move anywhere in the training facility area.
- 10.1.2.2.2. Axle assembly front and rear, it shall include differential and brake components. It must be mounted on a moveable stand;
- 10.1.2.2.3. Air Brake Trainer Mockup, the model shall include all mechanical and electric components to allow for diagnostic tooling connections; and
- 10.1.2.2.4. 3D Virtual Power Pack Models, The models shall include CAD 3D drawings of all components of the Power Pack using NGRain.
- 10.1.3. **Special Tools.** The Training Resource List shall identify, by training task, the special tools required.
- 10.1.4. **Training Consumables.** The Training Resource List shall identify the estimated number of consumables, e.g., resistors, fuses, cable ties, cables, etc., required for each training task.
- 10.1.5. **Spares and Repair Parts.** The Training Resource List shall identify an estimate of spare and repair parts required to support each training task and shall be cross-referenced to items appearing on the Supply Support Lists.
- 10.2. The Training Resource List shall be delivered in a Microsoft Excel Spreadsheet, and shall include for each item on the list:
  - 10.2.1 Title;
  - 10.2.2 Short Description;
  - 10.2.3 Part Number;
  - 10.2.4 Manufacturer;
  - 10.2.5 Price;
  - 10.2.6 Availability; and
  - 10.2.7 Specifications and digital image for items exceeding \$10,000 (Cdn) in value.

**DID SMP-IL-022    Delivery Plan**

<b>1.    TITLE</b> Delivery Plan		<b>2.    IDENTIFICATION NUMBER</b> DID SMP-IL-022	
<b>3.    DESCRIPTION/PURPOSE</b> Delivery Plan identifies the delivery schedule for contract deliverables identified in Annex C.			
<b>4.    APPROVAL DATE</b> N/A	<b>5.    OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6.    GIDEP APPLICATION</b> N/A
<b>7.    APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8.    ORIGINATOR</b> SMP ILS Coordinator		<b>9.    APPLICABLE FORMS</b> N/A	
<b>10.   PREPARATION INSTRUCTIONS</b> 10.1.    Best commercial practices should be used for charts, tables, matrices, page numbering and document control numbering. 10.2.    The Delivery Plan shall be prepared in the Contractor's format and shall consist as a minimum of the following sections: 10.2.1.    Title Page; 10.2.2.    Table of Contents; 10.2.3.    Document Control Log; 10.2.4.    Revision Record; 10.2.5.    Plan Subject Matter; 10.2.6.    Notes; and 10.2.7.    Appendices. 10.3.    The Delivery Plan shall be presented in tabular format and shall contain the following data for each item of each CLIN: 10.3.1.    Contract Line Item No.; 10.3.2.    Description; 10.3.3.    QA Code; 10.3.4.    Destination; 10.3.5.    Unit of issue; 10.3.6.    Quantity; and 10.3.7.    Delivery Date.			

**DID SMP-IL-023    Warranty Support Plan**

<b>1.    TITLE</b> Warranty Support Plan		<b>2.    IDENTIFICATION NUMBER</b> DID SMP-IL-023	
<b>3.    DESCRIPTION/PURPOSE</b> The Warranty Support Plan identifies/documents the elements that compose the warranty support and provides the framework and strategy whereby the Contractor is going to meet its obligations to affect warranty support.			
<b>4.    APPROVAL DATE</b> N/A	<b>5.    OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6.    GIDEP APPLICATION</b> N/A
<b>7.    APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8.    ORIGINATOR</b> SMP ILS Coordinator		<b>9.    APPLICABLE FORMS</b> N/A	
<b>10.    PREPARATION INSTRUCTIONS</b> 10.1.    Best commercial practices shall be used for charts, tables, matrices, page numbering and document control numbering. 10.2.    The Warranty Support Plan shall be prepared in the Contractor's format and shall consist as a minimum the following sections: 10.2.1    Title Page; 10.2.2    Table of Contents; 10.2.3    Document Control Log; 10.2.4    Revision Record; 10.2.5    Plan Subject Matter; 10.2.6    Notes; and 10.2.7    Appendices. 10.3.    The plan subject matter shall include, but not be limited to, a detailed discussion on the following: 10.3.1.    An introduction with a stated purpose and scope; 10.3.2.    A description of the interrelationships between the Contractor organizations, policies and procedures, and any subcontractors. A key point of contact for warranty support matters should be identified.			

10.3.3. A detailed summary of what is covered under the standard warranty including applicable terms and conditions, such as parts and labour, time, usage, and maintenance servicing requirements. This section shall detail specific components that have a flow through warranty that is valid beyond the standard warranty.

10.3.4. Complete warranty control procedures including, but not necessarily limited to, the following:

- a. The quarterly reporting of Warranty Claims on the EIE IAW Article 1.4.2.9 of the contract;
- b. Details of the process (detailed steps) to be followed to action a warranty claim, for repairs performed by both the Contractor and Canada;
- c. Interfacing action between Contractor and Canada for initiating warranty action and shipping instructions, including identification of forms and other documentation requirements;
- d. Procedures to be used where warranty claims are not substantiated, but DND elects to have the item repaired and returned to service;
- e. The forming of a Warranty Review Committee;
- f. Procedures to be followed for evaluation of defective warrantable items; and
- g. Details relating to disposal of unserviceable warrantable components, necessary forms and financial control procedures. All costs that are associated with the program shall be identified including a method of compensating DND for effecting warranty repairs on the Contractor's behalf.

10.3.5. Identification of all of the Contractor's authorised service centres which are qualified, Controlled Goods registered, equipped and able to provide warranty support to operational CF bases which hold the SMP equipment. The distance in kilometres from these service centres to the closest CF bases shall be identified along with a designated point of contact.

10.4. Each topic of discussion should be addressed in a manner that clearly identifies any documentation or information required from DND.

**DID SMP-IL-024 Environmental, Health and Safety Impact Report**

<b>1. TITLE</b> Environmental, Health and Safety Impact Report (EHSIR)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-024	
<b>3. DESCRIPTION/PURPOSE</b> The EHSIR identifies and documents the environmental safety and health impact of the system/service provided by the Contractor throughout the various life cycle phases (design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal) and the mitigation measures required to reduce or eliminate significant environmental safety and health risks.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B, A-EN-007-000/FP-001, Divisional Instruction 600-04			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. <b>FORMAT</b> 10.1.1 The EHSIR shall be in the Contractor's format and as further described herein. 10.2. <b>CONTENT</b> 10.2.1 The EHSIR shall follow the guidance identified in DND Environmental Assessment Manual (A-EN-007-000/FP-001) and this DID. The EHSIR shall identify and document the environmental, health and safety impact of the project, system, materiel and/or services provided by the Contractor throughout the life cycle, and the mitigation measures required to reduce or eliminate significant environmental, health and safety risks. The EHSIR shall address the above points in detail through the following parts and sections: 10.2.2 <b>PART I – Registration Information</b> 10.2.2.1 Title – This Title shall identify the primary system being reported upon. 10.2.2.2 Base/Unit – This section shall identify the applicable site specific EFCCs Bases/Units or geography affected by the provided equipment, materiel and/or support services. 10.2.2.3 Registration –This section shall state registration identifier of the EHSIR - For MSVS SMP registration number is DGLEPM 1088. 10.2.2.4 Project Location – This section shall identify the physical locations affected by the provided equipment, materiel and/or support services, and/or as specified within the contract requirements. 10.2.2.5 Project Description Summary – this section shall contain a brief description of the system,			

	equipment, material and/or services being provided under following sub paragraphs:
10.2.2.5.1	General Description of the System. The section shall provide a description of the role, purpose, concept of operation, design characteristics, and performance capabilities of the system, throughout its entire life span. The major/significant construction materials, products and activities that contribute to the EHS impact shall be identified; and
10.2.2.5.2	Major Sub System. This section shall identify the major sub components of the system and provide a description of their purpose, function and/or role including any relevant steps or phases, such as operation and maintenance. The major/significant construction materials, products and activities that contribute to their EHS impact shall be identified
10.2.2.6	Assessment Contact – this paragraph shall contain the name, title, company name, phone number, and email address of the author of the report.
10.2.3	PART II – Environmental, Health and Safety Impact Assessment
10.2.3.1	Design – This section shall provide an overview on the origin of the activity being assessed and its design impact on environmental health and safety. Alternatives to the activities that were considered are to be included within this section, including reasons for non-adoption.
10.2.3.2	Major Sub System Assessment – This section shall provide, in tabular format, the following information ( <a href="#">Annex A</a> illustrates an example of the tabular format):
10.2.3.2.1	A listing of the Environmental, Health and Safety aspects (a sample list of possible aspects can be found at Annex F) and their hazards associated with each major sub system and component for each life cycle phase (engineering and manufacture, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal);
10.2.3.2.2	Clear identification of whether each major subsystem and component and its consumables are a source of any of the following EHS hazards:
10.2.3.2.2.1	Ionising radiation (location and exposure levels) (for each activity the radiation hazard shall be considered in both normal and non-normal situations);
10.2.3.2.2.2	Electromagnetic radiation (location and frequencies);
10.2.3.2.2.3	Noise (location and intensity);
10.2.3.2.2.4	Vibration (location and frequency);
10.2.3.2.2.5	Hazardous gases;
10.2.3.2.2.6	Hazardous liquids;
10.2.3.2.2.7	Hazardous solids (source, concentration or quantity); and
10.2.3.2.2.8	Other – any other hazard associated with the specific equipment (e.g., CEPA Schedule 1 heavy metals, asbestos, ARET substances, NPRI substances, and Challenge Substances).
10.2.3.2.3	The identification of the substance(s) of concern with its chemical abstract number (CAS #), and the identification of its control listing (eg NPRI, ARET, Challenge, CEPA Schedule 1);
10.2.3.2.4	The significance (amount or level) of the identified hazard, including compliance to regulatory requirements;
10.2.3.2.5	Justification for the use of all regulated products and those containing substances identified within the Accelerated Reduction/Elimination of Toxics (ARET, listed in Annex G - Accelerated Reduction / Elimination of Toxics (ARET) Substance list of this DID SMP-IL-024) National Pollutant Release Inventory (NPRI,



	<a href="http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm">http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm</a> ) and/or List of Challenge Substances ( <a href="http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_e.html">http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_e.html</a> ), and also for products containing heavy metals (heavy metals are those identified within Schedule 1 of the Canadian Environmental Protection Act (CEPA) <a href="http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&amp;n=24374285-1&amp;offset=14&amp;toc=show#1">http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&amp;n=24374285-1&amp;offset=14&amp;toc=show#1</a> );
10.2.3.2.6	The associated potential environmental, health and safety impacts from the identified hazards;
10.2.3.2.7	The mitigation measures or preventive measures necessary to reduce or eliminate the identified impacts or risks;
10.2.3.2.8	Compliance monitoring requirements (compliance monitoring verifies that mitigation measures were implemented); and
10.2.3.2.9	Follow-Up plans (follow-ups plans verify the accuracy of an EA and/or determines the effectiveness of any mitigation measure). Identify the type and nature of any required follow-up plans.
10.2.3.2.10	Reference to the applicable Material Safety Data Sheets (MSDS) for each identified hazardous substance.
10.2.3.3	Table of Hazardous Products. This section shall contain a list of all products, which are subject to the Hazardous Products Act and require a MSDS, and were identified in paragraph 10.2.3.2.2. The list shall include the product description/name, the product part number, the manufacturer name and address, the manufacturer's National Supply Code for Manufacturers (NSCM)/ Commercial and Government Entity (CAGE) Code, NATO Stock Number (NSN – if applicable) and unique Defence Resource Management Information System (DRMIS) identifier (if it exists), all Workplace Hazardous Materials Information System (WHMIS) Class(es) (eg A [Class A-Compressed Gas], B5 [Class B Flammable and Combustible Material, Division 5: Flammable Aerosol]), the full Transportation of Dangerous Goods Class (eg 2.3 [Class 2 Compressed Gases, Division 3: Poisonous Gases]), and the cross-reference to Annex E MSDS identifier. MSDS of these products shall be appended to the EHSIR within Annex E and clearly marked with their cross-linked identifier at the top right of the page. An example of this listing is provided at Annex B.
10.2.3.4	Mercury. This section shall contain a list of information pertaining to all occurrences of mercury associated with the major sub-systems and components, or project activity. The listing shall contain the following information in tabular format (Annex C illustrates an example of the tabular format):
10.2.3.4.1	Equipment NSN (for equipment containing mercury);
10.2.3.4.2	Equipment Description;
10.2.3.4.3	NSN and Defence Resource Management Information System (DRMIS) unique identifier of the item containing mercury (if it exists);
10.2.3.4.4	Manufacturer of mercury-containing item;
10.2.3.4.5	Date of manufacture of the mercury-containing item;
10.2.3.4.6	Manufacturer part number of mercury-containing item;
10.2.3.4.7	National Supply Code for Manufacturers of items containing mercury: (NSCM)/Commercial and Government Entity (CAGE) Code;
10.2.3.4.8	Description of mercury-containing item;
10.2.3.4.9	The form of mercury (egs liquid, vapour, amalgam, metal halide);

10.2.3.4.10	Quantity of mercury (kg mass);
10.2.3.4.11	Volume of mercury (L) and its concentration in ppm (either 10.2.3.4.10 or 10.2.3.4.11 is required, however, both can be provided);
10.2.3.4.12	The location of the mercury-containing item(s);
10.2.3.4.13	Quantity of mercury containing item per reported equipment; and
10.2.3.4.14	Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration).
10.2.3.5	Consultation
10.2.3.5.1	Internal. This section shall list all applicable internal consultations performed in order to produce the EHSIR; and
10.2.3.5.2	External. This section shall list all applicable external consultation performed in order to produce the EHSIR.
10.2.3.6	Documentation
10.2.3.6.1	Regulations and Policies. This section shall list all applicable Canadian regulations and policies; and
10.2.3.6.2	Other references. This section shall list the references and material used to produce the EHSIR.
10.2.3.7	Site Visits – This section shall comment on the reasons and results of visits conducted; otherwise it shall be titled and identified as “No site visits required”.
10.2.3.8	Existing Environment – This section shall identify the boundaries of the environment considered and provide an appropriate description of the environment(s) affected.
10.2.3.9	Environmental Effects – This section shall contain a completed matrix for each of the applicable components and activities (and their associated sub-activities) involving the system throughout the life cycle phases (engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal). For components with Ionizing Radiation hazard, each activity shall be considered in both normal and non-normal situations.  To identify potential environmental, health and safety effects, each matrix shall be completed as follows:
10.2.3.9.1	In the left-hand column, list the system components/activities. Across the top of the matrix, list the Valued Ecosystem Components (VECs) relevant to the study area.
10.2.3.9.2	Examine each place where a component intersects with an environmental component for each life cycle and determine whether there is a potential significant effect.  <a href="#">Annex D</a> illustrates a sample matrix. The VECs on the matrix are only a guide to typical environmental components. Adapt the matrix as needed in accordance with the site specific VECs.
10.2.3.10	Summary of Hazards and Impacts – This section shall present the written results on the investigations of the impact of the environmental, health and safety aspects/hazards throughout the different life cycle phases. Each sub-system or activity shall be addressed for their environmental impact or risks as identified in <a href="#">Annex A</a> and <a href="#">Annex D</a> . All regulated substances/activity shall be assessed for compliance and problem areas identified with mitigations measures. Each sub-system or activity shall be addressed under the following headings (sub-titles may be used for each Life Cycle Phase, Sub-System/Activity):
10.2.3.10.1	Description of Subsystem/Component/Activity: A description of the sub-system, component or activity and its interaction with the environment;

10.2.3.10.2	EHS Aspect: Identify the EHS Aspects (Annex F refers) associated with the Subsystem/Component/Activity throughout all life cycle phases (Annex A refers).
10.2.3.10.3	VECs Affected: Identify the VECs associated with the Subsystem/Component/Activity throughout all life cycle phases (Annex D refers)
10.2.3.10.4	Component/Activity Impact: Prediction of the environmental effects from each interaction and its impact, as well as any impacts that will require mitigation measures;
10.2.3.10.5	Mitigations Measures: Identify the appropriate mitigation measures required. Mitigation is the elimination, reduction, or control of adverse environmental effects, including restitution for any damage to the environment through replacement, restoration, compensation, or any other means.
10.2.3.10.6	Significance: Assess/Determine the environmental impact with mitigation measures in place. The EA must determine whether the environmental affects are adverse, likely, and are they significant.
10.2.3.10.7	Compliance Monitoring: Identify what compliance monitoring is required and the responsible person/office to conduct the monitoring.
10.2.3.10.8	Follow-Up Plans: Predict any cumulative/residual effects and the need to follow-up. Identify the follow-up plans with the reasons for them.
10.2.4 PART III – CONCLUSION	
10.2.4.1	Conclusion – This section shall summarize the main findings of the EHSIR and identify the major mitigation measures taken or required to assure sustainable development, and identify the major follow-up measures necessary.
<b>Annexes</b>	
Annex A –	Major Subsystem Assessment Table
Annex B –	Table of Hazardous Products
Annex C –	Items Containing Mercury
Annex D –	Environmental Effects Matrix
Annex E –	Material Safety Data Sheets (Annex E shall contain the Material Safety Data Sheets (MSDS) for all hazardous products identified in section 10.2.3.2.2 and 10.2.3.3.)
Annex F –	Listing of Possible EHS Aspects
Annex G –	Accelerated Reduction / Elimination of Toxics (ARET) Substance list

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

<u>EHS Hazard Type</u>	<u>Life Cycle Phase</u>
A- Ionizing Radiation	1- Engineering and Manufacture
B- Electromagnetic Radiation	2- Test and Evaluation
C- Noise	3- Production and Deployment
D- Vibration	4- Maintenance and Operations
E- Hazardous Gases	5- Demilitarization and Disposal
F- Hazardous Liquids	
G- Hazardous Solids	
H- Others	

1. Major Sub-system – Enter the appropriate sub-system that the identified hazard is associated with (eg, for a vehicle fleet, sub-system identification by vehicle configuration (Equipment Configuration Code – Cargo, MRT, Recovery, etc) and its Equipment Support List – Chassis, Engine, Brake, Electrical, Engine, Transmission, etc) may be used).
2. Significance – This column shall provide the measurement of the hazard for validation of significance (e.g., for noise, indicate decibel levels).

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

## Annex B Table of Hazardous Products

[illegible]

Annex C-Items Containing Mercury

Ser	Information Requested	Mercury Containing Item Details			
		Item 1	Item 2	Item 3	Item 4...
1	Equipment NSN (for equipment containing mercury)				
2	Equipment Description				
3	NSN and Defence Resource Management Information System (DRMIS) unique identifier of the item containing mercury (if it exists)				
4	Manufacturer of mercury-containing item				
5	Date of manufacture of the mercury-containing item				
6	Manufacturer part number of mercury-containing item				
7	National Supply Code for Manufacturers of items containing mercury: (NSCM)/Commercial and Government Entity (CAGE) Code				
8	Description of mercury-containing item;				
9	The form of mercury (egs liquid, vapour, amalgam, metal halide)				
10	Quantity of mercury (kg mass)				
11	Volume of mercury (L) and its concentration in ppm [provide either mass (Serial 11) or volume/concentration of mercury, but not both]				
12	The location of the mercury-containing item(s)				
13	Quantity of mercury containing item per reported equipment				
14	Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration);				
15	Material Safety Data Sheet, where possible				

**Annex D – Environmental Effects Matrix**

PROJECT Sub-system  Enter each sub-system e.g. phases of construction, aspect of operation.	Valued Ecosystem Components																		
	(Add to/ delete from matrix below as necessary)																		
	Show potential effects with a “X”																		
	Physical							Biological						Social					
Atmosphere	Surface water	Ground water	Soils	Terrain	Vibration	Noise		Terrestrial animals	Terrestrial habitat	Aquatic animals	Aquatic habitat	Vegetation		Heritage/historical	Recreation/Aesthetic	People/health	Economy	Services	Land use
Body Paint																			
Engine (noise, vibration, etc.)																			
Brake Shoes																			
Road Wheels																			

**Annex E-Material Safety Data Sheets (MSDSs)**

<b>MSDS Identifier</b>	<b>Product</b>	<b>Product Part Number</b>	<b>MSDS</b> (may be embedded here or identified and then attached to covering page)



## **Annex F-Listing of Possible EHS Aspects**

An Environmental Health and Safety (EHS) aspect is defined as an activity, product or service that can interact with the environment, human health or safety. The list provided herein is not inclusive, and is only an example of what might be considered when preparing an Environmental Health and Safety Impact Report. Aspects and their risk are those associated with the activity, product or service being specifically addressed. Regulations or standards may, or may not, apply to the specific EHS aspect.

1. Accelerated Reduction and Elimination of Toxics (ARET) substances
2. Adhesives and Sealants
3. Air Conditonants / Refrigerants
4. Asbestos
5. Batteries
6. Bulk and Weight of Components
7. CEPA Schedule 1 Substances
8. Challenge to Industry Substances
9. Cleaning and cleaners
10. Coatings/Painting
11. Compressed Gases/Fluids
12. Contamination / Decontamination
13. Demilitarization and Disposal
14. Disposal
15. Electrical and Power Sources
16. Emission Hazards – Enclosed Spaces
17. Equipment Condition
18. Exhaust Emissions
19. Fire Extinguishing Systems
20. Firing Damage and Damage from operations
21. Floorboards and Hull Plates
22. Fuel Consumption
23. Fuels, Fluids and Lubricants
24. Hazardous consumables
25. Heavy Metals

Medium Support Vehicle System  
Standard Military Pattern  
Acquisition Contract Clauses  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

26. High Temperature Hazards
27. Ionizing Radiation – Normal and Abnormal
28. Iron / Aluminum Metal Work (Thermite)
29. Lasers
30. Materials of environmental concern
31. Mercury Sources
32. Metal Work
33. Modifications
34. National Pollutant Release Inventory (NPRI) substances
35. Noise, Vibrations and Ground Pressure
36. Non-Ionizing Radiation – Lasers, UV, Radio, Radar
37. Operator Safety
38. Ozone Depleting Substances
39. Precious Metals
40. Polychlorinated Biphenyls
41. Radars
42. Recycling and Reusing
43. Regulated Activity/Material/Substance
44. Rubbers, Plastics, Polymers and Composites
45. Shielding
46. Spills and Spill Reporting
47. Storage - Fuels, Fluids and Lubricants
48. Tires
49. Wastes – Solids, Liquids and Gases
50. Wastes – Hazardous Solids, Liquids and Gases

## Annex G- Acceleration Reduction / Elimination of Toxics (ARET) Substance List

Following is the ARET list of substances for action. These substances were selected from a list of chemicals detected in the Canadian environment. There is evidence that these substances 1) may have the potential to have harmful effects on human, animal, or plant life; 2) may tend to degrade very slowly in the environment; and/or 3) may tend to accumulate in living organisms.

This listing was meant to guide priorities and is not meant to imply that actual harm is currently being caused by these substances. The ARET substances have been rank-ordered based on their intrinsic properties. Decisions concerning priority for action were made by the managers of participating facilities. The substances have been categorized by chemical grouping and are accompanied by Chemical Abstracts Service Registry Number (CASRN) for ease of use with WHMIS (Workplace Hazardous Materials Information System) and NPRI (National Pollutant Release Inventory) data management systems.

### **LIST A-1** (meets or exceed criteria for toxicity, bioaccumulation and persistence)

ARET's vision for substances on this list is the virtual elimination of emissions into the environment from human activities. The short-term goal is for a 90 percent reduction in emissions by 2000.

<u>SUBSTANCE</u>	<u>CASRN</u>
Benzo(a)anthracene .....	56-55-3
Benzo(a)pyrene.....	50-32-8
Benzo(e)pyrene.....	192-97-2
Benzo(b)fluoranthene .....	205-99-2
Benzo(j)fluoranthene .....	205-82-3
Benzo(k)fluoranthene .....	207-08-9
Benzo(g,h,i)perylene.....	191-24-2
Chrysene .....	218-01-9
Dibenz(a,h)anthracene.....	53-70-3
Dibenzo(a,i)pyrene .....	189-55-9
Dibenz(a,j)acridine .....	224-42-0
7H-dibenzo(c,g)carbazole.....	194-59-2
Fluoranthene .....	206-44-0
Ideno(1,2,3-c,d)pyrene.....	193-39-5
Perylene .....	198-55-0
Phenanthrene .....	85-01-8
Pyrene .....	129-00-0
Nitro-PAHs	
1,6-dinitropyrene .....	42397-64-8
1,8-dinitropyrene .....	42397-65-9
Chlorinated organics	
Hexachlorobenzene .....	118-74-1
alpha-hexachlorocyclohexane.....	319-84-6
gamma-hexachlorocyclohexane.....	58-89-9
4,4-methylenebis(2-chloroaniline).....	101-14-4
Octachlorostyrene.....	29082-74-4
Pentachlorophenol .....	87-86-5
2,3,7,8-tetrachlorodibenzofuran.....	51207-31-9

2,3,7,8-tetrachlorodibenzo-p-dioxin ..... 1746-01-6

SUBSTANCE	CASRN
Metal compounds	
*Methyl mercury .....	22967-92-6
Tributyltin.....	688-73-3

### **LIST A-2**

ARET's goal for substances on this list is for the reduction of emissions to levels that are insufficient to cause harm.

The short-term goal is for significant reduction in emissions.

SUBSTANCE	CASRN
* 1,4 dichlorobenzene.....	106-46-7
**Cadmium compounds (respirable & soluble inorganic forms).	N/A

\*The toxicity criterion was met for possible carcinogenicity by accepting IARC (International Agency for Research on Cancer) classification of "possible human carcinogen."  
\*\*The selection process was unable to take into account specific metal compounds, and therefore scores for metals were based on a composite score for several metal species. For cadmium, actions may be tailored to such compounds as CdCO<sub>3</sub>, Cd(OH)<sub>2</sub>, CdCl<sub>2</sub>, CdO, and CdSO<sub>4</sub>. The concept of virtual elimination of discharges for metals is under discussion and was not resolved by ARET.

### **LIST B**

For the List B substances, the vision is reduction of emissions to levels that are insufficient to cause harm. The short-term goal is a 50 percent reduction by 2000.

#### **LIST B-1**(meet or exceed criteria for toxicity & bioaccumulation)

SUBSTANCE	CASRN
PAHs Anthracene.....7,12-	120-12-7
dimethylbenz(a)anthracene.....	57-97-6
Dimethylnaphthalene.....	28804-88-8
Chlorinated ogranics 3,3'-dichlorbenzidine .....	91-94-1
Hexachlorocyclopentadiene..... 2,4,6-	77-47-4
trichlorophenol .....	88-06-2
Other bis(2-ethylhexyl)phthalate .....	117-81-7
*Tetraethyl lead .....	78-00-2

\*Degrades to lead, which is persistent (see List B-2)

#### **LIST B-2** (meet or exceed persistence & toxicity criteria)

SUBSTANCE	PAHs	CASRN
Benzo(a)fluorene .....		238-84-6

Benzo(b)fluorene .....	30777-19-6
Dibenzo(a,h)acridine .....	226-36-8
<b>Chlorinated organics</b>	
alpha-chlorotoluene .....	100-44-7
bis(2-chloroethyl)ether .....	111-44-4
Bromodichloromethane .....	75-27-4
Carbon tetrachloride .....	56-23-5
Chloroform .....	67-66-3
Chlorodibromomethane .....	124-48-1
1,2 dichlorethane .....	107-06-2
Methylene chloride .....	75-09-2
1,1,2,2-tetrachlorethylene .....	127-18-4
2,3,4,6-tetrachlorophenol.....	58-90-2
<b>Metal compounds</b>	
Arsenic (inorganic) .....	N/A*
Asbestos.....	1332-21-4
Beryllium.....	7440-41-7
Chromium (Cr6+) .....	N/A*
Cobalt (inorganic, soluble) .....	N/A*
Copper (inorganic salts).....	N/A*
**Lead (all forms except alkyl).....	N/A*
***Mercury (elemental and inorganic).....	N/A*
Nickel (inorganic, respirable, soluble).....	N/A*
Silver (soluble inorganic salts) .....	N/A*
Uranium (Inorganic, respirable, soluble) .....	N/A*
Zinc (inorganic, respirable, soluble) .....	N/A*
<b>Other</b>	
o-anisidine .....	90-04-0
Cyanides .....	57-12-5
4,6 dinitro-o-cresol .....	534-52-1
1,4 dioxane .....	123-91-1
Ethylene oxide .....	75-21-8
2-naphthylamine .....	91-59-8
2-nitropropane .....	79-46-9
Thiourea.....	62-56-6

\*CASRN not applicable. The selection process was unable to take into account specific metal compounds, and therefore scores for metals were based on a composite score for several metal species.  
\*\*See also tetraethyl lead on List B-1 \*\*\*See also methyl mercury on List A-1

**LIST B-3** (meet or exceed toxicity criteria)

SUBSTANCE	CASRN
<b>Chlorinated organics</b>	
bis(chloromethyl)ether.....	542-88-1
Epichlorhydrin .....	106-89-8
1-bromo-2-chlorethane .....	107-04-0
1-chloro-4-nitrobenzene .....	100-00-5
1,2-dibromo-3-chlorpropane.....	96-12-8
1,2-dichlorobut-3-ene .....	760-23-6

2,4-dichlorophenol.....	120-83-2
1,3-dichloropropene.....	542-75-6
1,1,2-trichloroethylene.....	79-01-6
<b>Aromatics</b>	
4-aminoazobenzene .....	60-09-3
4-aminobiphenyl.....	92-67-1
Aniline .....	62-53-3
Benzene .....	71-43-2
Benidine.....	92-87-5
Dimethylphenol (mixed isomers) .....	1300-71-6
2,6-dimethylphenol.....	576-26-1
2,4-dinitrotoluene .....	121-14-2
2,6-dinitrotoluene .....	606-20-2
1,2-diphenylhydrazine .....	122-66-7
2-methylpyridine .....	109-06-8
Phenol .....	108-95-2
Toluene diisocyanates.....	26471-62-5
<b>Nitrosamines</b>	
N-nitrosodimethylamine .....	62-75-9
N-nitrosodiphenylamine .....	86-30-6
N-nitroso-di-n-propylamine.....	621-64-7
<b>Other</b>	
Acetaldehyde .....	75-07-0
Acetamide.....	60-35-5
Acrolein .....	107-02-8
Acrylamide .....	79-06-1
Acrylonitrile.....	107-13-1
1,3-butadiene .....	106-99-0
Chlorine dioxide .....	10049-04-4
n-dodecane.....	112-40-3
Ethanol.....	64-17-5
Ethylene dibromide.....	106-93-4
Ethylene thiourea.....	96-45-7
Formaldehyde .....	50-00-0
Hydrazine .....	302-01-2
Hydrogen sulphide.....	7783-06-4
Methyl isobutyl ketone .....	108-10-1
4-nitrosomorpholine .....	59-89-2
Quinoline .....	91-22-5
Tetramethylthiuram disulphide.....	137-26-8
Vinyl bromide.....	593-60-2

**DID SMP-IL-025 Contractor Capability and Facility Survey**

<b>1. TITLE</b> Contractor Capability and Facility Survey		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IL-025	
<b>3. DESCRIPTION/PURPOSE</b> This survey is required to assess a Contractor's capability and facilities.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM	<b>6. GIDEP APPLICATION</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b>  PART 1 -  Supplier: _____ Address: _____ Contact Name: _ Position: _____ Telephone: _____ Fax: _____ Form completed by: _____  PART 2 –  Responses to all questions in Table 1 attached to this DID are to be provided and amplified with justification in remarks column. Additional information can be provided in attachment(s) to the survey.			

Table 1 - CONTRACTOR CAPABILITIES AND FACILITIES SURVEY – Revision 1				
Corporate Environmental Performance	Yes	No	N/A	Remarks/Comments
1. Does your company comply with all applicable Canadian EHS regulations and codes of practice? Canadian legislation can be found at sites such as: <a href="http://laws-lois.justice.gc.ca/Search/">http://laws-lois.justice.gc.ca/Search/</a> (Attach list to identify which acts, regulations, etc)				
2. Your company and/or its officers have been without an EHS charge or offence anywhere within the last five years? (If no, please explain)				
3. Has your company developed an Environmental policy? <ul style="list-style-type: none"> <li>If yes, a copy of the formalized Environmental policy is to be submitted with this survey;</li> </ul>				
4. Has your company developed an Occupational Health and Safety (OHS) policy? <ul style="list-style-type: none"> <li>If yes, a copy of the formalized policy is to be submitted with this survey.</li> </ul>				
5. Does your company have an Environmental Management System (EMS) and is that system ISO 14001 certified? <ul style="list-style-type: none"> <li>If yes, please attach a copy of a current (issued within the last 3 years) ISO 14001 registration certificate, or a copy of the organization's EMS.</li> </ul>				
6. Are the employees currently trained on the identification, classification and regulatory requirements pertaining to the safe use of hazardous materials/controlled products including labelling and Material Safety Data Sheets (MSDSs)? [Note: in Canada this is known as WHMIS training] <ul style="list-style-type: none"> <li>If yes, please identify the number of personnel trained during the last 3 years in the area of the work to be conducted. (Note that training records may be verified).</li> </ul>				



Table 1 - CONTRACTOR CAPABILITIES AND FACILITIES SURVEY – Revision 1				
Corporate Environmental Performance	Yes	No	N/A	Remarks/Comments
<p>7. Are the employees currently trained on the transportation of dangerous goods?</p> <ul style="list-style-type: none"> <li>If yes, please identify the number of personnel trained in transportation of dangerous goods during the last 3 years in the area of the work to be conducted. (Note that training records may be verified).</li> </ul>				
<p>8. Are personnel protective equipment (PPE) and engineering controls in place to mitigate Environmental Health and Safety Risks?</p> <ul style="list-style-type: none"> <li>If yes, identify the personnel protective equipment and engineering controls</li> </ul>				
<p>9. Does the facility have a hazardous material inventory management system in place for their receipt, storage, use and disposal of hazardous material?</p> <ul style="list-style-type: none"> <li>If yes, describe in detail how hazardous material, including hazardous wastes, are accounted for within the facility, or provide a copy of the management system manual,</li> </ul>				
<p>10. Does the facility have a comprehensive Emergency Response Plan, including spills, in place?</p> <ul style="list-style-type: none"> <li>If yes, a copy of the Emergency Response Plan(s) is to be provided.</li> </ul>				

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

## **SYSTEMS ENGINEERING**

**DID SMP-SE-001 Systems Engineering Management Plan**

<b>1. TITLE</b> Systems Engineering Management Plan (SEMP)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-001	
<b>3. DESCRIPTION/PURPOSE</b> <p>3.1 The SEMP describes the systems engineering process to ensure system integration and product performance.</p> <p>3.2 The SEMP provides Canada with an understanding of the Contractor's systems engineering management program and will be used to guide the SMP Systems Engineering program during the performance of the Contract.</p>			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. The SEMP shall indicate the organizational responsibilities and procedures used in the implementation of the Systems Engineering requirements as stated in the Contract. The SEMP shall address all the Systems Engineering requirements related to Annex B in order to control the engineering processes and methodologies to deliver the Vehicle , APS (Armour Protection System), and Trailer.</p> <p>10.2. The SEMP shall be prepared in the Contractor's format and should contain the following information:</p> <p>10.2.1. Title Page;</p> <p>10.2.2. Table of Contents;</p> <p>10.2.3. Document Control Log;</p> <p>10.2.4. Revision Record;</p> <p>10.2.5. Plan Subject Matter;</p> <p>10.2.6. Notes; and</p> <p>10.2.7. Appendices.</p> <p>10.3. The following paragraphs outline the plan subject matter of the SEMP. The section headings shall not limit the development of the SEMP, which must reflect the way in which the Systems Engineering effort shall be managed. The SEMP shall be divided into the following sections:</p>			

- 10.3.1. Section I - General. This section shall define the scope, purpose and application of the SEMP, related documents and mechanisms to amend the plan. It shall describe how the engineering efforts are controlled by the SE Manager, and how he/she is able to ensure that the equipment is developed as an integrated system. It shall include, but not necessarily be limited to, a description of how the following SE tasks will be achieved:
- a. Vehicle Cab / Chassis development;
  - b. APS development;
  - c. Gun Tractor, Cargo, Cargo with Crane, LHS and MRT variant development;
  - d. Trailer Development;
  - e. Testing and Test Support;
  - f. Quality Assurance;
  - g. Technical Data Management; and
  - h. Configuration Management.
- 10.3.2. Section II – Elements In Place. The plan shall describe what elements and/or resources of the SE program are already in place, and what is additionally required;
- 10.3.3. Section III – Testing, Quality and Acceptance Plan. The plan shall include details on how the Contractor intends to prepare, conduct, support and report on Compliance Testing (including Contractor-conducted First Production Article Testing (FPAT), Canada-conducted FPAT and the User Trial). The plan shall also detail how the Contractor intends to conduct Quality Management throughout the performance of the contract and how the Contractor intends to support and conduct the vehicle acceptance process;
- 10.3.4. Section IV – Major Subcontractors. The plan shall identify the subcontractors involved in major SE activities and tasks. As a guide, a major activity should be one of those listed in Para. 10.3.1. above. A description of the subcontractors' areas of responsibility and to whom they are accountable should be included;
- 10.3.5. Section V - Management/Organization. This section of the plan shall describe the Contractor's SE organization and subcontractors' SE organizations (if applicable). The organization breakdown shall include, but not necessarily be limited to, the management of the activities listed in Para. 10.3. above. The plan should identify the Contractor's SE Manager and main activity managers by name in an SE Organizational Chart;
- 10.3.6. Section VI - WBS/Schedule of Activities and Milestones. This section shall include summary tasks and milestone events extracted from the Master Project Schedule. (CDRL SMP-PM-003 and DID SMP-PM-003) to show the time-phased workflow of the SE tasks, events, deliverables, as well as key inter-dependencies from non-SE areas;
- 10.3.7. Section VII - Relationships. This section shall describe the following relationships:
- a. between the Contractor's various SE elements and the SE Manager;
  - b. between the Contractor's SE Manager and the Project Management, Integrated Logistics and Subcontractors programs; and
  - c. between the Contractor's and DND SE Organisations.

10.3.8. Section VIII – Technical Reviews and Meetings. The technical reviews and meetings proposed for the SMP program should be identified. The reviews and meetings shall include those required to address current technical issues including design, integration, installation, production, test and evaluation, quality, certification scheduling and budget impacts.

**DID SMP-SE-002 First Production Article Testing Report**

<b>1. TITLE</b> First Production Article Testing (FPAT) Report		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-002	
<b>3. DESCRIPTION/PURPOSE</b> The FPAT Report provides confirmation that the first production of each Vehicle variant, Armour Protection System (APS) and Trailer meets the requirements.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SE		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. The FPAT Report shall fully document the results obtained during Contractor-conducted testing of the first production unit of each Vehicle variant, the APS and the Trailer.</p> <p>10.2. The FPAT Report shall be prepared in the Contractor's format and should consist as a minimum of the following sections:</p> <p>10.2.1 Title Page;</p> <p>10.2.2 Table of Contents;</p> <p>10.2.3 Document Control Log;</p> <p>10.2.4 Revision Record;</p> <p>10.2.5 Report Subject Matter;</p> <p>10.2.6 Notes; and</p> <p>10.2.7 Appendices.</p> <p>10.3. The report shall identify the individual tests performed, the test procedure used, calibration of test equipment, the results achieved and how the results meet or exceed the technical requirements.</p>			

10.4. The FPAT Report should contain a summary table. The summary table, as a minimum, should have columns for:

10.4.1 Requirement Identifier (Object ID from Appendix BA / Attachment BA-XX as applicable);

10.4.2 Requirement Text;

10.4.3 Test Method (from RV Column in Appendix BA / Attachment BA-XX as applicable);

10.4.4 Test Results; and

10.4.5 Remarks/Comments.

**DID SMP-SE-003 Quality Assurance Plan**

<b>1. TITLE</b> Quality Assurance Plan (QAP)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-003	
<b>3. DESCRIPTION/PURPOSE</b> <p>3.1. The QAP provides Canada with information on the Contractor's quality system and its application as it relates to the MSVS Project.</p> <p>3.2. The QAP provides Canada with an understanding of the Contractor's quality program and will be used to guide the quality program during the performance of the contract.</p>			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. The QAP shall describe the Contractor's quality system and how the system will be implemented for the successful completion of the work.</p> <p>10.2 The QAP shall be prepared in the Contractor's format and shall be written IAW ISO 10 005:2005 and should contain, but not be limited to, the following information:</p> <p>10.2.1 Title Page;</p> <p>10.2.2 Table of Contents;</p> <p>10.2.3 Document Control Log;</p> <p>10.2.4 Revision Record;</p> <p>10.2.5 Plan Subject Matter;</p> <p>10.2.6 Notes; and</p> <p>10.2.7 Appendices.</p> <p>10.3. The QAP shall provide details on the methods and organization with which the Contractor will implement an effective Quality Assurance Program. The plan shall identify all procedures, processes and associated planning data necessary for the attainment of the required quality assurance program.</p> <p>10.4. The Plan Subject Matter shall be broken down into the following sections:</p> <p>10.4.1 <u>Section I – General</u>. This section of the plan shall define the scope, purpose and application of</p>			



	the QA Plan, related documents, and mechanisms to amend the plan;
10.4.2	<u>Section II – Elements In Place.</u> The plan shall describe what elements and/or resources of the QA program are already in place, and what is additionally required to meet the needs of the contract;
10.4.3	<u>Section III – Major Subcontractors.</u> The plan shall identify the major subcontractors who are subject to the application of the Contractor's quality assurance system. The plan should include a description of the subcontractor's area of responsibility and to whom it is accountable;
10.4.4	<u>Section IV - Management/Organization.</u> This section shall describe the Contractor's QA organisation, subcontractor's QA organisation, management procedures, interfaces and reporting/tracking systems established to control QA activities. The plan should identify the Contractor's QA Manager and support personnel by name in a QA Organisational Chart;
10.4.5	<u>Section V - WBS/Schedule of Activities and Milestones.</u> This section shall include summary tasks and milestone events extracted from the Master Project Schedule (CDRL SMP-PM-003 and DID SMP-PM-003) to show the time-phased workflow of the QA related tasks, events, and deliverables;
10.4.6	<u>Section VI - Relationships.</u> This section shall describe the following relationships: <ul style="list-style-type: none"><li>a. between the various Contractor's QA elements and QA Manager;</li><li>b. between the Contractor's QA Manager and the Contractor's Project Management, Systems Engineering, and Subcontractors programs; and</li><li>c. between the Contractor's and DND QA Organisation.</li></ul>
10.4.7	<u>Section VII – Meetings and Reviews.</u> The requirements for QA meetings throughout the conduct of the project shall be outlined in the QAP; and
10.4.8	<u>Section VIII – Quality Conformance Inspection (QCI).</u> This section shall detail the process that will be implemented in order to carry out the QCI on each Vehicle, APS and Trailer before delivery. It shall provide the details of the visual and functional checks that the Contractor intends to perform as part of each QCI. This QCI checklist may have to be amended by the Contractor as the product is further defined and in order to address any quality issues identified by the TA or DQA during the contract.

**DID SMP-SE-004 Configuration Management Plan**

<b>1. TITLE</b> Configuration Management Plan (CMP)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-004	
<b>3. DESCRIPTION/PURPOSE</b> <p>3.1 The CMP describes the Contractor's internal configuration management organization, the responsibilities of the members, the relationship among the several offices/divisions and the policies and procedures for configuration management planning and management, configuration identification, configuration change management, configuration status accounting and configuration verification &amp; audit.</p> <p>3.2 This plan provides DND with an understanding of the Contractor's configuration management program and will be used to guide the MSVS configuration management program during the performance of the contract.</p>			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM	<b>6. GIDEP APPLICATION</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1 The CMP indicates the organizational responsibilities and procedures used in the implementation of the Configuration Management requirements as stated in the Contract. The Configuration Management Plan shall follow the criteria set forth in ANSI EIA-649-A.</p> <p>10.2 The CMP shall be prepared in the Contractor's format and should contain the following information:</p> <p>10.2.1. Title Page.</p> <p>10.2.2. Table of Contents.</p> <p>10.2.3. Document Control Log.</p> <p>10.2.4. Revision Record.</p> <p>10.2.5. Plan Subject Matter.</p> <p>10.2.6. Notes.</p> <p>10.2.7. Appendices.</p> <p>10.3. The following paragraphs outline the subject matter of the CMP.</p>			

- 10.3.1 Section I - General. This section shall define the scope, purpose and application of the CMP, related documents and mechanisms to amend the plan. It shall include, but not necessarily be limited to, a description of how the following tasks will be achieved:
- a. identification of Configuration Items (a list of Configuration Items is required in the plan);
  - b. establishment of baselines;
  - c. establishment of Configuration Control procedures, documents, and Control Board;
  - d. establishment of Configuration Status Accounting database;
  - e. conduct of the Functional Configuration Audit;
  - f. conduct of the Physical Configuration Audit; and
  - g. hand-over of the CM program to the Contractor's in-service support team.
- 10.3.2 Section II- Elements In Place. The plan shall describe what elements and/or resources of Configuration Management are already in place, and what is additionally required for this contract;
- 10.3.3 Section III – Subcontracting. There are two aspects to subcontracting and Configuration Management (CM). One is the subcontracting of the process, the other is CM by a major sub-system subcontractor or supplier. In both cases, the plan shall identify the subcontractor involved in CM, and describe its area of responsibility and to whom it is accountable;
- 10.3.4 Section IV - Management/Organization. This section shall describe the Contractor's CM organization, (subcontractor's CM organization if applicable), management procedures, interfaces and reporting/tracking systems established to control CM activities. The Contractor's CM Manager and support personnel should be identified by name in a CM Organisational Chart.
- 10.3.5 Section V - WBS/Schedule of Activities and Milestones. This section shall include summary tasks and milestone events extracted from the Master Project Schedule (CDRL SMP-PM-003 and DID SMP-PM-003) to show the time-phased workflow of the CM related tasks, events, and deliverables.
- 10.3.7 Section VI - Relationships. This section shall describe the following relationships:
- a. between the various Contractor's CM elements and CM Manager;
  - b. between the Contractor's CM Manager and the Contractor's Project Management, Systems Engineering, Integrated Logistics and Subcontractors programs, and
  - c. between the Contractor's and DND CM Organization.
- 10.3.8 Section VII – Meetings and Reviews. The requirements for CM meetings throughout the conduct of the contract shall be outlined in the CMP.

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

**DID SMP-SE-005   Not Allocated**

**DID SMP-SE-006 Engineering Change Proposal**

<b>1. TITLE</b> Engineering Change Proposal (ECP)		<b>2. IDENTIFICATION NUMBER</b> SMP-SE-006	
<b>3. DESCRIPTION/PURPOSE</b> ECPs request for authorization to make changes to an approved baseline.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> Mil-Std-973	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. Engineering Change Proposals (ECP) shall be provided using the ECP Template, Figure 1. 10.2. The ECP shall fully describe and substantiate the engineering change required. 10.3. ECP Template Field Descriptions. 10.3.1. <u>Block 1.</u> DATE (YY/MM/DD). Enter the submittal date of the ECP. 10.3.2. <u>Block 2.</u> Enter name, address and contact information for Canada or Contractor authority submitting the ECP. 10.3.3. <u>Block 3.</u> CLASS OF ECP. Enter the class of ECP either "Class I" or "Class II". Classifications of changes are determined in accordance with referenced paragraphs in Mil-Std-973: Class I: Subject to Government Approval (Para. 5.4.2.2.1.). Class II: Subject to Government Approval for Classification Only (Para. 5.4.2.4.). Info copy of completed Class II change provided to Canada. 10.3.4. <u>Block 4.</u> JUSTIFICATION CODE. (Reference Mil-Std-973) B - Interface C - Compatibility D - Deficiency O - Operational or Logistics Support P - Production Stoppage R - Cost Reduction			

<p>S - Safety  V - Value Engineering</p> <p>10.3.5. <u>Block 5</u>. PRIORITY. Contractor recommendation for processing:</p> <p>E - Emergency. Vital modification required to rectify a condition which may result in a serious hazard to personnel or equipment, or may seriously compromise national security. ECP to be actioned within 24 hours.</p> <p>U - Urgent. Urgent modification required to rectify a condition that results in degraded mission effectiveness. ECP to be actioned within 5 days.</p> <p>R - Routine. ECP to be actioned within 30 days.</p> <p>10.3.6. <u>Block 6</u>. ECP DESIGNATION.</p> <p>No. - Format "ECP-Y-NNN"</p> <p>Y - C (Contractor) or P (Project Office – Canada) indicating Originator</p> <p>NNN - Serial number unique for each change</p> <p>Type – P (Preliminary) or F (Final)</p> <p>Rev – Enter revision indicator to identify version</p> <p>System Designation – Identify and describe the System/Sub-System affected by the ECP. Include reference to affected configuration identifier(s).</p> <p>10.3.7. <u>Block 7</u>. SPECIFICATIONS/DOCUMENTS AFFECTED. List all specifications or documents affected by the change. This shall include the management plans submitted for the contract. Copies of the specifications/documents showing proposed changes shall be submitted with the ECP in order to assess the impact of the change. Attach separate list as required.</p> <p>10.3.8. <u>Block 8</u>. DRAWINGS AFFECTED. List all drawings or documents affected by the change. Copies of the drawings showing proposed changes shall be submitted with the ECP in order to assess the impact of the change. Attach separate list as required.</p> <p>10.3.9. <u>Block 9</u>. TITLE OF CHANGE. Enter a brief title to identify the component or system affected by the change.</p> <p>10.3.10. <u>Block 10</u>. DESCRIPTION OF CHANGE. Describe the change in definitive terms. Supplementary information shall be attached to the ECP to the extent necessary to clearly portray the proposed change and obtain approval.</p> <p>10.3.11. <u>Block 11</u>. NEED FOR CHANGE. Provide an explanation of the need for the change and indicate the benefit to Canada (enhanced performance, range, reliability, maintainability, etc). The nature of the defect, failure, incident, malfunction, etc. substantiating the need for the change shall be provided in detail.</p> <p>10.3.12. <u>Block 12</u>. CONTRACT NUMBER AND LINE ITEMS. Insert the contract number and identify reference areas of the contract, annexes, appendices and attachments, line item numbers etc., affected by the change.</p> <p>10.3.13. <u>Block 13</u>. PRODUCTION EFFECTIVITY. Indicate the estimated date of when change will be incorporated on the production line. Also indicate the planned serial number or lot number of when the change will be implemented.</p> <p>10.3.14. <u>Block 14</u>. EFFECT ON PRODUCTION DELIVERY SCHEDULE. Indicate the production delivery schedule for items incorporating the change and identify if the change is a variance from the current</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

established production and delivery schedule.

10.3.15. Block 15.RETROFIT. Applicable when the change must be accomplished in accepted items by retrofit.

RECOMMENDED ITEM EFFECTIVITY. Indicate the lot numbers or serial numbers of the item(s) to be retrofitted as a result of the change.

ESTIMATED KIT DELIVERY SCHEDULE/LOCATIONS. Indicate details of delivery schedule, quantities and locations for completing the retrofit as a result of the change.

ESTIMATED COSTS/SAVINGS UNDER CONTRACT. Indicate the total estimated costs/savings of the ECP on the contract.

10.3.16. Block 16.SUBMITTING ACTIVITY. Print the name of the individual authorized to submit the ECP and have the ECP signed and dated.

10.3.17. Block 17. EFFECT ON PRODUCT CONFIGURATION DOCUMENTATION OR CONTRACT.

Described the effects on the approved CI product specifications by reference to the SCNS, NORS or other enclosure(s) which cover such proposed text changes in detail. Provide indexing for proper identification adjacent to the factor affected-performance, weight, moment, etc., which are covered in the enclosure(s). Describe the effects on drawings, when not completely covered on Page 1, in general terms by means of a referenced enclosure. Such enclosure may consist of a list of enclosed NORS if submittal of an NOR for each drawing affected is a requirement of the contract. Indicate any technical data submittal which is not provided for in the CDRL by means of a referenced enclosure. Address nomenclature change when applicable.

10.3.18. Block 18. EFFECT ON INTEGRATED LOGISTICS SUPPORT ELEMENTS.

Indicate the effects of the engineering change on logistic support of the item by checking the appropriate boxes. Explain in detail these effects on an enclosure indexed by appropriate identification adjacent to the subject under discussion. Indicate the method to be used to determine the integrated logistic support plans and items which will be required for the support of the new configuration as well as retrofitting previously delivered items to the same configuration. Address the following as applicable:

- a. Effects on schedule and content of the ILS plan;
- b. Effect on maintenance concept and plans for the levels of maintenance and procedures;
- c. System and/or CI logistics support analysis (LSA) tasks to be accomplished and LSA data requiring update wherever it exists in the contract;
- d. Extension/revision of the interim support plan;
- e. Spares and repair parts that are changed, modified, obsoleted or added, including detailed supply data for interim support spares;  
NOTE: Failure to include detailed supply data m delay ECP processing.
- f. Revised or new technical manuals;
- g. Revised or new facilities requirements and site activation plan;
- h. New, revised, obsoleted or additional support equipment (SE), test procedures and software. For items of SE and trainers which require change, furnish a cross reference to the related ECPS, and for any related ECP not furnished with the basic ECP, furnish a brief description of the proposed change(s) in SE and trainers;
- i. Qualitative and quantitative personnel requirements data which identify additions or deletions to operator or maintenance manpower in terms of personnel skill levels, knowledge and numbers required to support the CI as modified by the change;
- j. New operator and maintenance training requirements in terms of training equipment, trainers and training software for operator and maintenance courses. This information should include identification of specific courses, equipment, technical manuals, personnel, etc. required to set up the course at either the contractor or Government facility;

- k. See paragraph i above for instructions;
- l. See paragraph j above for instructions;
- m. Any effect on contract maintenance that increases the scope or dollar limitation established in the contract;
- n. Effects on packaging, handling, storage, and transportability-resulting from changes in materials, dimensions, fragility, inherent environmental or operating conditions.

10.3.19. Block 19. EFFECT ON OPERATIONAL EMPLOYMENT. Indicate the effects of the engineering change of CI utilization by checking the appropriate factors and providing details by enclosures. Use quantitative values whenever practicable but are required when reliability and service life are impacted. Survivability includes nuclear survivability.

10.3.20. Block 20. OTHER CONSIDERATIONS. Identify the effects of the proposed engineering change on the following on an enclosure indexed by appropriate identification adjacent to the factor affected:

- a. Interfaces having an effect on adjacent or related items, (output, input, size, mating connections, etc.);
- b. GFE or Government Furnished Data (GFD) changed, modified or obsoleted;
- c. Physical constraints. Removal or repositioning of items, structural rework, increase or decrease in overall dimensions;
- d. Software (other than operational, maintenance, and training software) requiring a change to existing code and/or, resources or addition of new software;
- e. Rework required on other equipment not included previously which will effect the existing operational configuration;
- f. Additional or modified system test procedures required;
- g. Any new or additional changes having an effect on existing warranties or guarantees;
- h. Changes or updates to the parts control program;
- i. Effects on life cycle cost projections for the configuration item or program, including projections of operation and support costs/savings for the item(s) affected over the contractually defined life and projections of the costs/savings to be realized in planned future production and spares buys of the item(s) affected.

10.3.21. Block 21. ALTERNATE SOLUTIONS. Include a summary of the various alternative solutions considered, including the use of revised operation or maintenance procedures, revised inspection or servicing requirements, revised part replacement schedules, etc.. Provide an analysis of the alternatives, identify the advantages and disadvantages inherent in each feasible alternative approach, and show the reasons for adopting the alternative solution proposed by the ECP. When analysis addresses new concepts or new technology, present supporting data (to include LSA if contractually required) with the proposal to authenticate the trade-off analysis.

10.3.22. Block 22. DEVELOPMENTAL STATUS. When applicable, make recommendations as to the additional tests, trials, installations, prototypes, fit checks, etc. , which will be required to substantiate the proposed engineering change. These recommendations shall include the test objective and test vehicle(s) to be used. Indicate the development status of the major items of GFE which will be used in conjunction with the change and the availability of the equipment in terms of the estimated production incorporation point.

10.3.23. Block 23. RECOMMENDATIONS FOR RETROFIT. When applicable, make recommendations for retrofit of the engineering change into accepted items with substantiating data, any implications thereto, and a brief description of the action required. Where retrofit is not recommended, provide an explanation of this determination. Provide reference to any enclosure required to state recommended retrofit affectivity (See Block 23a).

10.3.24. Block 24. WORK-HOURS, MATERIAL COSTS AND SUBCONTRACT COSTS PER UNIT TO INSTALL RETROFIT KITS. Complete Blocks 24a through 24d to show the amount of work which must be programmed for various activities to install retrofit kits. Estimate work-hours, material costs and subcontract costs to install retrofit kits when the weapon system is undergoing overhaul.



10.3.25. Block 25. WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT. Enter the work-hours required to test the system or the item following installation of the retrofit kit.

10.3.26. Block 26. THIS CHANGE MUST BE ACCOMPLISHED. Where previously approved engineering changes must be incorporated in a specific order in relation to the proposed change, specify such order.

10.3.27. Block 27. IS CONTRACTOR FIELD SERVICE ENGINEERING REQUIRED? Check applicable box. If "yes" attach proposed program for contractor participation.

10.3.28. Block 28. OUT OF SERVICE TIME. Estimate the total time period from removal of the equipment from operational service until equipment will be returned to operational status after being retrofitted.

10.3.29. Block 29. EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPS ON ITEM. The contractor shall summarize the cumulative effect upon performance, weight, electrical load, etc. , of this ECP and previously approved ECPS when design limitations are being approached or exceeded. Consequences of ECP disapproval may be stated in this block or in a referenced enclosure.

10.3.30. Block 30. DATE CONTRACTUAL AUTHORITY NEEDED. The contractor shall provide the date by which contractual authority to proceed is needed to maintain the estimated effectiveness specified in the ECP and to provide concurrent ILS and logistics support item deliveries. The contractor should consider the targets for decision (see 5.4.2.3.1.1) allowing additional time for review, mailing, and other incidental handling and processing requirements.

### ECP Template, Figure 1

<b>ENGINEERING CHANGE PROPOSAL (ECP)</b>					
1. DATE (YY/MM/DD)					
2. ORIGINATOR NAME AND ADDRESS					
3. CLASS OF ECP (I or II)		4. JUSTIFICATION CODE (Applicable to Class I Only)		5. PRIORITY	
6. ECP DESIGNATION					
No.		Type		Revision	
SYSTEM DESIGNATION:					
7. SPECIFICATIONS / DOCUMENTS AFFECTED			8. DRAWINGS AFFECTED		
Spec/Doc No.	Title	Rev	Dwg No.	Title	REV
9. TITLE OF CHANGE					
10. DESCRIPTION OF CHANGE					
11. NEED FOR CHANGE					
12. CONTRACT NUMBER AND LINE ITEMS					
13. PRODUCTION EFFECTIVITY			14. EFFECT ON PRODUCTION DELIVERY SCHEDULE		
15. RETROFIT					
RECOMMENDED ITEM EFFECTIVITY			ESTIMATED KIT DELIVERY SCHEDULE / LOCATIONS		

ESTIMATED COSTS / SAVINGS UNDER CONTRACT	
<b>IMPACT ANALYSIS / EFFECTS</b>	
ITEMS / SYSTEMS DIRECTLY AFFECTED	
OTHER SYSTEMS AFFECTED	
OTHER CONTRACTORS / ACTIVITIES AFFECTED	
EFFECTS ON PERFORMANCE / SYSTEM SPECIFICATIONS	
EFFECTS ON EMPLOYMENT, INTEGRATED LOGISTICS SUPPORT, TRAINING, OPERATIONAL EFFECTIVENESS, ENVIRONMENT, HEALTH & SAFETY (EHS) OR SOFTWARE	
EFFECTS ON ITEM SPECIFICATIONS	
16. SUBMITTING ACTIVITY – Authorized Signature (Print Name and Sign)	
Date	

EFFECTS ON PRODUCT CONFIGURATION IDENTIFICATION, LOGISTICS AND OPERATIONS							
(X)	FACTOR	ENCL	PAR	(X)	FACTOR	ENCL	PAR
	<b>17. EFFECT ON PRODUCT CONFIGURATION IDENTIFICATION OR CONTRACT</b>				<b>19. EFFECT ON OPERATIONAL EMPLOYMENT</b>		
	a. PERFORMANCE				a. SAFETY		
	b. WEIGHT BALANCE STABILITY ( <i>Aircraft</i> )				b. SURVIVABILITY		
	c. WEIGHT-MOMENT ( <i>Other Equipment</i> )				c. RELIABILITY		
	d. CDRL, TECHNICAL DATA				d. MAINTAINABILITY		
	e. NOMENCLATURE				e. SERVICE LIFE		
					f. OPERATING PROCEDURES		
	<b>18. EFFECT ON INTEGRATED LOGISTICS SUPPORT (ILS) ELEMENTS</b>				g. ELECTROMAGNETIC INTERFERENCE		
	a. ILS PLANS				h. ACTIVATION SCHEDULE		
	b. MAINTENANCE CONCEPT, PLANS AND PROCEDURES				i. CRITICAL SINGLE POINT FAILURE ITEMS		
	c. LOGISTICS SUPPORT ANALYSIS				j. INTEROPERABILITY		
	d. INTERIM SUPPORT PROGRAMS						
	e. SPARES AND REPAIR PARTS				<b>20. OTHER CONSIDERATIONS</b>		
	f. TECH MANUALS/PROGRAMMING TAPES				a. INTERFACE		
	g. FACILITIES				b. OTHER AFFECTED EQUIPMENT/GFE/ GFI		
	h. SUPPORT EQUIPMENT				c. PHYSICAL CONSTRAINTS		
	i. OPERATOR TRAINING				d. COMPUTER PROGRAMS AND RESOURCES		
	j. OPERATOR TRAINING EQUIPMENT				e. REWORK OF OTHER EQUIPMENT		
	k. MAINTENANCE TRAINING				f. SYSTEM TEST PROCEDURES		
	l. MAINTENANCE TRAINING EQUIPMENT				g. WARRANTY/GUARANTEE		
	m. CONTRACT MAINTENANCE				h. PARTS CONTROL		
	n. PACKAGING, HANDLING, STORAGE, TRANSPORTABILITY				i. LIFE CYCLE COSTS		
<b>21. ALTERNATE SOLUTIONS</b>							
<b>22. DEVELOPMENTAL STATUS</b>							
<b>23. RECOMMENDATIONS FOR RETROFIT</b>							
<b>24. WORK-HOURS, MATERIAL COSTS AND SUBCONTRACT COSTS PER UNIT TO INSTALL RETROFIT KITS</b>							
a. WORK HOURS		b. MATERIAL COSTS		c. SUBCONTRACT COSTS			
<b>25. WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT</b>							
<b>26. THIS CHANGE MUST BE ACCOMPLISHED</b> <input type="checkbox"/> BEFORE <input type="checkbox"/> WITH <input type="checkbox"/> AFTER THE FOLLOWING CHANGES				<b>27. IS CONTRACTOR FIELD SERVICE ENGINEERING REQUIRED?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO		<b>28. OUT OF SERVICE TIME</b>	
<b>29. EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPs ON ITEM</b>				<b>30. DATE CONTRACTUAL AUTHORITY NEEDED FOR PRODUCTION</b> _____			

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

	RETROFIT
--	----------

**DID SMP-SE-007 Request for Deviation/Request for Waiver**

<b>1. TITLE</b> Request for Deviation (RFD) / Request for Waiver (RFW)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-007	
<b>3. DESCRIPTION/PURPOSE</b> RFDs / RFWs request authorization to make changes to the approved baseline.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> RFD/RFW Template	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. RFD or RFW shall be provided using the RFD/RFW Template. 10.2. The RFD/RFW shall fully describe and substantiate the request. 10.3. RFD/RFW Template Field Descriptions. 10.3.1. <u>Block 1.</u> DATE (YY/MM/DD). Enter the submittal date of the RFD/RFW. 10.3.2. <u>Block 2.</u> Enter name, address and contact information for Canada or Contractor authority submitting the RFD/RFW. 10.3.3. <u>Block 3.</u> DEVIATION or WAIVER. Enter an "X" in the appropriate box. 10.3.4. <u>Block 4.</u> CLASSIFICATION:. Enter an "X" in the appropriate box.  Minor: The deviation / waiver consists of a departure which does not involve the factors listed for Major or Critical.  Major: The deviation / waiver consists of a departure involving (a) health, (b) performance, (c) interchangeability, reliability, survivability, maintainability, or durability of the item or its repair parts; (d) effective use or operation; (e) weight and size; or (6) appearance (when a factor).  Critical: The deviation / waiver consists of a departure involving safety.			

10.3.5. Block 5. DEVIATION / WAIVER DESIGNATION

No. – Format “AAA-Y-NNN”

AAA = RFD or RFW (Deviation or Waiver)

Y = C (Contractor) or P (Project Office - Gov) indicating Originator.

NNN = Serial number unique for each Request

Type - P (Preliminary) or F (Final)

Rev - Enter revision indicator to identify version

System Designation – Identify and describe the System / Sub-System affected by the Deviation / Waiver. Include reference to affected configuration identifier(s).

10.3.6. Block 6. TITLE OF DEVIATION / WAIVER. Enter a brief descriptive title of the deviation or waiver.

10.3.7. Block 7. CONTRACT NUMBER AND LINE ITEM. Insert the contract number and identify reference areas of the Contract, Annexes, Appendices and Attachments, Line Item Numbers etc. affected by the deviation / waiver.

10.3.8. Block 8. PROCURING CONTRACT OFFICER. Enter the name and Phone number for the Contractor's procuring contract officer applicable to the item(s) in Block 9.

10.3.9. Block 9. NAME OF PARTS / ASSEMBLIES AFFECTED. Provide a list and description of the parts / assemblies affected by the deviation / waiver.

10.3.10. Block 10. EFFECTIVITY. If lot numbers have been assigned, enter the number(s) applicable to the lot(s) for which the deviation / waiver is being requested. Lot may also be defined by serial numbers of the affected items.

10.3.11. Block 11. EFFECT ON COST / PRICE / PERFORMANCE OF VEHICLE. Enter the estimated reduction or price adjustment. If no change, so state with rationale. The request for deviation or waiver shall include the specific consideration that will be provided to the Government if this “non-conforming” unit(s) is accepted by the Government.

10.3.12. Block 12. EFFECT ON DELIVERY SCHEDULE. State the effects on the contract delivery schedule that will result from both approval and disapproval of the request for deviation or waiver.

10.3.13. Block 13. EFFECT ON PERFORMANCE AND INTEGRATED LOGISTICS SUPPORT. If the deviation / waiver has an impact on performance and integrated logistics support describe the effects. Attach additional documentation as required and reference those enclosures in the block.

10.3.14. Block 14. DESCRIPTION OF DEVIATION / WAIVER. Describe the nature of the proposed departure from the technical requirements. Marked drawings for the systems / sub-systems should be included when necessary to provide a better understanding of the deviation / waiver.

10.3.15. Block 15. NEED FOR DEVIATION / WAIVER. Provide an explanation of why it is impossible or

unreasonable to comply with the configuration documentation within the specified delivery schedule. Include an explanation why a deviation or waiver is proposed in lieu of a permanent design change.

10.3.16. Block 16. CORRECTIVE ACTION TAKEN. Describe action being taken to correct non-conformance to prevent a future occurrence.

10.3.17. Block 17. SUBMITTING ACTIVITY. Print the name of the individual authorized to submit the Deviation / Waiver and have the Deviation / Waiver signed and dated.

10.3.18 Block 18. APPROVAL / DISAPPROVAL. To be completed and signed by the Government Authority authorized to make the decision on the acceptance or rejection of the deviation / waiver.



**RFD/RFW Template**

<b>REQUEST FOR DEVIATION (RFD)/ REQUEST FOR WAIVER (RFW)</b>		
1. DATE (YY/MM/DD)		
2. ORIGINATOR NAME AND ADDRESS		
3. DEVIATION or WAIVER <input type="checkbox"/> Deviation <input type="checkbox"/> Waiver	4. CLASSIFICATION <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	
5. DEVIATION / WAIVER DESIGNATION		
No.	Type	Revision
SYSTEM DESIGNATION		
6. TITLE OF DEVIATION / WAIVER		
7. CONTRACT NUMBER AND LINE ITEM	8. PROCURING CONTRACT OFFICER Name Phone Number	
9. NAME OF PARTS / ASSEMBLIES AFFECTED		
10. EFFECTIVITY		
11. EFFECT ON COST / PRICE / PERFORMANCE OF VEHICLE	12. EFFECT DELIVERY SCHEDULE	
13. EFFECT ON PERFORMANCE AND INTEGRATED LOGISTICS SUPPORT		
14. DESCRIPTION OF DEVIATION / WAIVER		
15. NEED FOR DEVIATION / WAIVER		
16. CORRECTIVE ACTION TAKEN		
17. SUBMITTING ACTIVITY – Authorized Signature (Print Name and Sign)		Date:

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

18. APPROVAL / DISAPPROVAL – Authorized Signature (Print Name and Sign)

Date:

**DID SMP-SE-008 Specification Change Notice**

<b>1. TITLE</b> Specification Change Notice		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-008	
<b>3. DESCRIPTION/PURPOSE</b> A Specification Change Notice (SCN) describes the required changes to specifications, drawings, associated lists and other documentation following ECP (Engineering Change Proposal) approval.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 The SCN shall be provided in the Contractor's format. 10.2 The SCN shall fully describe the changes. 10.3 The following information shall be included and detailed: 10.3.1 General Information (originator, date, SCN number, etc); 10.3.2 Related ECP number; 10.3.3 Specification or document identification to which the ECP applies; 10.3.4 Configuration item; 10.3.5 Description of changes; 10.3.6 Disposition of SCN; and 10.3.7 Authorities (Submitting, Reviewing, Recommending and Approving).			

**DID SMP-SE-009 Configuration Status Accounting Report**

<b>1. TITLE</b> Configuration Status Accounting (CSA) Report		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-009	
<b>3. DESCRIPTION/PURPOSE</b> The CSA Report details the information required to effectively manage Configuration Items (CIs) and provide visibility of Configuration Management activities, including the status of deviations, waivers and engineering changes.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The CSA Report shall be in the Contractor's format. 10.2. The CSA Report shall provide, as a minimum, the identification of each CI and list all new, outstanding and historical ECPs (Engineering Change Proposal), RFDs (Request For Deviation), RFWs (Request For Waiver), and SCNs (Specification Change Notice) including their status against each CI.			

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BE-2  
Appendix BE  
Annex B to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

**DID SMP-SE-010 NOT ALLOCATED**

**DID SMP-SE-011 Integrated Testing and Support Plan**

<b>1. TITLE</b> Integrated Testing and Support Plan (ITSP)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-011	
<b>3. DESCRIPTION/PURPOSE</b> The ITSP describes the testing and support to be provided by the Contractor for all portions of the testing requirements.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM	<b>6. GIDEP APPLICATION</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 The ITSP shall be prepared in the Contractor's format and should contain the following information: 10.1.1 Title Page; 10.1.2 Table of Contents; 10.1.3 Document Control Log; 10.1.4 Revision Record; 10.1.5 Plan Subject Matter; 10.1.6 Notes; and 10.1.7 Appendices. 10.2 The ITSP shall address all the requirements identified in the related sections of Annex B. The plan shall describe how all testing program tasks contained in Annex B will be accomplished. 10.3 The Plan Subject Matter shall be broken down as follows: 10.3.1 <u>Section I - General</u> . This section shall define the scope, purpose and application of the ITSP and related documents. It shall describe how all testing and support efforts are controlled by the Testing Manager, and how he/ she is able to ensure each Vehicle, APS, and Trailer is tested as an integrated system(s). It shall include, but not necessarily be limited to, a description of how the following tasks will be achieved (each of these should be attached as separate appendices or sub-plans):			

- a. First Production Article Testing (FPAT); and
- b. User trial.

10.3.2 Section II – Elements In Place. The plan shall describe what elements and/or resources of the testing and support program are already in place, and what is additionally required;

10.3.3 Section III – Major Subcontractors. The plan shall identify the subcontractors involved in major testing activities and tasks. As a guide, a major activity should be one of those listed in Section I above. A description of the subcontractor's area of responsibility and to whom it is accountable should be included;

10.3.4 Section IV - Management/Organization. This section shall describe the Contractor's Integrated Testing and Support organization, subcontractor's testing organization - if applicable, management procedures, interfaces and reporting/tracking systems established to control testing activities. The organization breakdown shall include, but not necessarily be limited to, the management of the activities listed in Section I above. The plan should identify the Contractor's Testing Manager by name in an Integrated Testing and Support Organizational Chart along with his/ her key personnel. A statement of MSVS Project duties should be provided for the Integrated Testing and Support (ITS) Manager. This section may best be attached as an appendix.

10.3.5 Section V - WBS/Schedule of Activities and Milestones. This section shall include summary tasks and milestone events extracted from the Master Project Schedule (CDRL SMP-PM-003 and DID SMP-PM-003) to show the time-phased workflow of the ITS tasks (particularly when Canada is expected to witness Contractor testing and the periods allotted for Contractor-supported Canada-conducted tests and User trial), events, deliverables, as well as key inter-dependencies from non-ITS areas.

10.3.6 Section VII - Relationships. This section shall describe the following relationships:

- a. between the Contractor's various ITS elements and the Testing Manager;
- b. between the Contractor's Testing Manager and the Project Management, Systems Engineering and Subcontractors - if applicable - programs; and
- c. between the Contractor's and DND Testing Organizations.

10.3.7 Section VI : Not used

**DID SMP-SE-012 Painting and Corrosion Protection Plan**

<b>1. TITLE</b> Painting and Corrosion Protection Plan		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-012	
<b>3. DESCRIPTION/PURPOSE</b> The Painting and Corrosion Protection Plan provides Canada with information on the Contractor's painting and corrosion protection processes that are to be applied to the Vehicle, APS and Trailer during the manufacturing and delivery process.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 The Painting and Corrosion Protection Plan shall detail the materials and processes used to coat the Vehicle, APS and Trailer during the manufacturing and delivery process. 10.2 The Painting and Corrosion Protection Plan shall be prepared in the Contractor's format and shall contain the following information: 10.2.1 Title Page. 10.2.2 Table of Contents. 10.2.3 Document Control Log. 10.2.4 Revision Record. 10.2.5 Plan Subject Matter. 10.2.6 Notes. 10.2.7 Appendices. 10.3 The plan shall contain a description of the following: 10.3.1 Materials and suppliers to be used; 10.3.2 Identification of substrates to be coated, classification as an interior or exterior surface and a description of the cleaning, pre-treatment, primer and topcoat to be used; 10.3.3 A description of the application process to be used for each coating material and each step of the painting process, include sequencing, timing, and coating thickness. For non-metallic substrates, such as composite panels, joint sealing compounds and rock guard coatings that are normally painted or colour matched with metallic substrates, describe the CARC surface preparation for these substrates. Include a copy of the coating manufacturer's recommended application			



- processes and touch up paint process/procedures;
- 10.3.4 A description of the coating to be used for corrosion prevention IAW the 20 year fleet life expectancy, the durability, longevity and application process for the coating;
- 10.3.5 Quality Control Plan, including sampling and criteria for rejection; and
- 10.3.6 Facility Qualifications – A description of the painting facility and equipment to be used to apply the CARC finishes. If a subcontracted painting service is used, the subcontractor's endorsement of the Painting and Corrosion Protection Plan shall be provided.

**DID SMP-SE-013 Configuration Audit Report (CAR)**

<b>1. TITLE</b> Configuration Audit Report (CAR)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-013	
<b>3. DESCRIPTION/PURPOSE</b> The CAR details the results of Functional and Physical Configuration Audits (FCA and PCA) for each of the Vehicle variants, APS and Trailer.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 The CAR shall be in the Contractor's format. 10.2 The CAR shall provide, as a minimum, an overview of the audit procedures followed for the particular audit - whether an FCA or PCA, the results of those audits, and a summary of any outstanding action and costs required to rectify gaps found in the Vehicle variants, APS and Trailer as a result of the audits.			

# **DID SMP-SE-014 Quality Conformance Testing Report**

<b>1. TITLE</b> Quality Conformance Testing (QCT) Report		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-014	
<b>3. DESCRIPTION/PURPOSE</b> The QCT report details the results achieved for each QCT conducted IAW the Quality Assurance Plan (QAP) for each Vehicle, APS and Trailer produced.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The QCT Report shall be provided in the Contractor's format. 10.2. The QCT Report Title Page shall contain, as a minimum, the following information: 10.2.1 Title; 10.2.2 Vehicle, APS, or Trailer Description and BIC Code; 10.2.3 Inspection Date(s) and Location; 10.2.4 Contract No; 10.2.5 DID No; 10.2.6 Prepared For: Canadian Department of National Defence, Standard Military Pattern (SMP) Medium Support Vehicle System (MSVS) Project Office; 10.2.7 Prepared By: Contractor's name address; 10.2.8 Approved by: DND MSVS Project Office; and 10.2.9 Authenticated By: Contractor and date. 10.3 The QCT Report, as a minimum, shall contain the tests, but not be limited to those described in Annex B, Quality Conformance Testing. The report shall include a column to indicate that the test was successfully completed and indicate the results of the test, the name and signature of the person who conducted the test, the name and signature of the Technical Authority (TA) representative who witnessed the test, and the date on which the test was conducted. 10.3.1 The QCT Report shall also have a one page declaration, prior to the report details, signed by the Contractor's designated authority, stating that the Vehicle, APS or Trailer successfully passed all items of the QCT as specified in the QAP, with the details contained in the report, and that the Vehicle, APS or Trailer is ready for delivery to Canada.			

### DID SMP-SE-015 Equivalence Justification Report

<b>1. TITLE</b> Equivalence Justification Report		<b>2. IDENTIFICATION NUMBER</b> DID SMP-SE-015	
<b>3. DESCRIPTION/PURPOSE</b> An Equivalence Justification Report justifies the use of a proposed equivalent standard including how it will be used and any impact that its use will have on both the developmental process and life cycle data.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS SEM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> MSVS SEM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 The Equivalence Justification Report shall be prepared in the Contractor's format. 10.2 The report shall provide, as a minimum, the following information: 10.2.1 The standards quoted in the appropriate section of the SOW (Statement Of Work) or specifications (herein referred to as the "Quoted Standard"), which are the base documents to which the equivalency case justification shall be prepared. For standards, their approval dates and dates of any applicable amendments and revisions shall be included in this listing. 10.2.2 The standards proposed by the Contractor (herein referred to as the "Equivalent Standard") that would be compared to the Quoted Standard. For standards, their approval dates and dates of any applicable amendments and revisions shall be included in this listing. 10.3 The Equivalence Justification Report shall compare the Equivalent Standard to the Quoted Standard and shall include, as a minimum, the following information: 10.3.1 A rationale and a justification for the use of the Equivalent Standard (i.e. compelling reasons for using the Equivalent Standard as opposed to the Quoted Standard, including other cases where the Equivalent Standard was successfully used); 10.3.2 A clear demonstration that the intended objectives, management, processes, accomplishments and requirements of the Quoted Standard are complied with by the Equivalent Standard; 10.3.3 The document, life cycle related or otherwise, and the data required by the Equivalent Standard and how this data will satisfy the Quoted Standard requirements; 10.3.4 A mapping of the Equivalent Standard requirements to the Quoted Standard requirements that			

are specified in the Contract; and

10.3.5 An impact analysis of any difference between the Equivalent Standard and the Quoted Standard, including, as a minimum:

- a. Safety goals;
- b. Design requirements; and
- c. Qualification requirements.

10.4 For the Equivalent Standard, a copy of the standard being proposed shall be included in this report.

**DID SMP-IRB-001 Industrial and Regional Benefits (IRB) Report**

DATA ITEM DESCRIPTION		
<b>1. TITLE</b> Industrial and Regional Benefits (IRB) Annual Report		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IRB-001
<b>3. DESCRIPTION/PURPOSE</b> The IRB Annual Report reports IRB achievements against Contractual commitments.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> Industry Canada IRB Authority	<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex F		
<b>8. ORIGINATOR</b> Industry Canada IRB Authority		<b>9. APPLICABLE FORMS</b> N/A
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. The Contractor must submit to the IRB Authority, through the PWGSC Contracting Authority (CA), annual IRB Reports based on the performance achieved during the IRB Reporting Periods noted in this Contract. Each annual IRB Report shall consist of four parts.</p> <p>10.2. Content:</p> <p>Part A. The Canadian Content Value (CCV) achieved in total since the beginning of the IRB Achievement Period for each of the following:</p> <ul style="list-style-type: none"> <li>i. total IRB;</li> <li>ii. direct IRB;</li> <li>iii. indirect IRB;</li> <li>iv. IRB by period;</li> <li>v. IRB in each of the individual regions;</li> <li>vi. IRB with small and medium business; and</li> <li>vii. each IRB transaction.</li> </ul> <p>Part B. The CCV achieved since the last IRB Annual Report for:</p> <ul style="list-style-type: none"> <li>i. total IRB;</li> <li>ii. direct IRB;</li> <li>iii. indirect IRB;</li> <li>iv. IRB in each of the individual regions;</li> </ul>		

- v. IRB with small and medium business; and
- vi. each IRB transaction.

Part C. For each IRB Transaction being reported, a description of the achievements, activities, delays and/or problems. A plan of action to resolve any difficulties.

Part D. A summary that shall include:

- i. the total amount of progress payments or invoices submitted by the Contractor for work completed since the Effective Date of the Contract;
- ii. a forecast of IRB achievements;
- iii. a description of Small and Medium Business development activities undertaken during the reporting period;
- iv. an explanation of any IRB shortfall in achievement evident from the data in Part A, and a plan of action to resolve the problem;
- v. a list of the IRB Transactions, which had been approved by the IRB Authority, which have since been cancelled, terminated, added or substantially altered during the reporting period, the details of any requested changes, their status vis-à-vis Contract amendment, and the reasons thereof;
- vi. a brief narrative describing, on an exception basis, any noteworthy developments with respect to Regional and Small Business marketing considerations; and
- vii. a description and explanation of any proposed changes to the IRB Management Plan.

### 10.3 Additional Information

As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the IRB Annual Reports, a Certificate of Compliance signed off by the senior company Comptroller, in respect of each IRB Transaction for which there was activity in that Reporting Period. The Certificate of Compliance also covers those IRB achievements of the Contractor's Eligible Parties and sub-contractors.

**DID SMP-IRB-002 Tranche 2 of Proposed IRB Transactions**

<b>DATA ITEM DESCRIPTION</b>		
<b>1. TITLE</b> Tranche 2 of proposed IRB Transactions		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IRB-002
<b>3. DESCRIPTION/PURPOSE</b> Contractor shall submit acceptable IRB Transactions, which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> Industry Canada IRB Authority	<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex F		
<b>8. ORIGINATOR</b> Industry Canada IRB Authority		<b>9. APPLICABLE FORMS</b> N/A
<b>10. PREPARATION INSTRUCTIONS</b> For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.		



**DID SMP-IRB-003 Tranche 3 of Proposed IRB Transactions**

DATA ITEM DESCRIPTION		
<b>1. TITLE</b> Tranche 3 of proposed IRB Transactions		<b>2. IDENTIFICATION NUMBER</b> DID SMP-IRB-003
<b>3. DESCRIPTION/PURPOSE</b> Contractor shall submit acceptable IRB Transactions, which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> Industry Canada IRB Authority	<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex F		
<b>8. ORIGINATOR</b> Industry Canada IRB Authority		<b>9. APPLICABLE FORMS</b> N/A
<b>10. PREPARATION INSTRUCTIONS</b> For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.		

**STANDARD MILITARY PATTERN (SMP)**  
**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

Request For Proposal  
W8476-06-MSMP/L

Part 7 – Resulting Contract - Acquisition

Annex B – Statement of Work

APPENDIX BF – Government Supply

**GOVERNMENT SUPPLIED MATERIAL (GSM)**

ITEM	NSN / NNO	DESCRIPTION / DESCRIPTION	QTY/ Qté	Delivery Date	Delivery Destination	CTAT	ITAR	COMMENTS
	7690-21-852-7232	Marker, Identification, Numeral "0" / (Marqueur d'identification, Chiffre "0")	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	7690-21-852-7233	Marker, Identification, Numeral "1" / (Marqueur d'identification, Chiffre "1")	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	7690-21-852-7234	Marker, Identification, Numeral "2" / (Marqueur d'identification, Chiffre "2")	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	7690-21-852-7235	Marker, Identification, Numeral "3" / (Marqueur d'identification, Chiffre "3")	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	7690-21-852-7236	Marker, Identification, Numeral "4" / (Marqueur d'identification, Chiffre "4")	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	7690-21-852-7237	Marker, Identification, Numeral "5" / (Marqueur d'identification, Chiffre "5")	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	7690-21-852-7238	Marker, Identification, Numeral "6" and "9" / (Marqueur d'identification, Chiffres "6 et 9")	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	7690-21-852-7239	Marker, Identification, Numeral "7" / (Marqueur d'identification, Chiffre "7")	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	7690-21-852-7240	Marker, Identification, Numeral "8" - (Marqueur d'identification, Chiffre "8")	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL

ITEM	NSN / NNO	DESCRIPTION / DESCRIPTION	QTY/ Qté	Delivery Date	Delivery Destination	CTAT	ITAR	COMMENTS
	7690-21-864-3114	Marker, Identification, Maple Leaf, Red / ( <i>Marqueur d'identification, Feuille d'Érable, Rouge</i> )	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	9905-21-859-2910	Canadian Forces Registration (CFR) License Plates (DND Dwg 373038) / ( <i>Plaques d'immatriculation (MDN Dwg 373038) Matricule des Forces canadiennes (MFC)</i> )	TBD at PDR	TBD at PDR	TBD at PDR	NO	NO	NIL
	5995-99-551-3869	Cable assembly special purpose, (Gun data Cable 18000 MM LG)	37	TBD at PDR	TBD at PDR	NO	NO	NIL

**GOVERNMENT FURNISHED EQUIPMENT (GFE)**

ITEM	NSN	DESCRIPTION / DIMENSIONS (CM)	QTY	Delivery Date	Delivery Destination	CTAT	ITAR	Comments
1	4210-21-856-9084	Fire Extinguisher	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
2	4210-00-245-1117	Mounting, Bracket, Fire Extinguisher	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
3	6545-21-111-8439	First Aid Kit	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
4	5340-21-921-0895	First Aid Kit Bracket	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
5	7240-21-910-7112	Spout Can Flexible	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
6	7240-21-852-5150	Can, Military, Plastic; (Water), 20L	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
7	2540-21-901-5046	Can, Military, Plastic; (Water), Bracket	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
8	7240-21-874-4113	Can, Military, Plastic; (Naphtha), 5L	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
9	9999-21-894-0880	Can, Military, Plastic; (Naphtha), Bracket	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
10	7240-21-899-8270	Can, Military, Plastic; (Diesel), 20L	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
11	2540-21-901-5046	Can, Military, Plastic; (Diesel) Bracket	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
12	1080-12-124-1609	Cap, Camouflage Net Support (spreader)	10	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
13	1080-12-191-5200	Support, Camouflage Net. Fiberglass (1.2 meters length)	20	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
14	1080-21-907-1094	Net, Camouflage, Temperate (6.8m x 6.8m)	6	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
15	8105-20-002-1723	Bag Textile Campole	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL

ITEM	NSN	DESCRIPTION / DIMENSIONS (CM)	QTY	Delivery Date	Delivery Destination	CTAT	ITAR	Comments
16	5110-21-809-1859	Axe (L: 0.92m long)	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
17	5120-21-639-4021	Pick (6 lb head)	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
18	5120-21-639-4073	Pick Handle (L: 0.92m long)	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
19	5120-21-872-1790	Shovel	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
20	5120-21-905-9902	Pry Bar	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
21	1005-20-003-3788	Machine Gun C9A2	1	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
22	4230-21-904-1738	Bracket Assembly Mounting Decontaminating Apparatus	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
23	4230-21-904-1737	Decontaminating Apparatus	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
24	9905-21-872-4237	Safety Triangle	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
25	4030-21-907-6585	Shackle	4	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
26	3010-21-914-5142	Block of Wood	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
27	3940-01-517-9187	Sling Endless	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
28	8120-20-001-3790	Bag Tow Sling	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
29	4235-21-920-4185	Spill Kit	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
30	1005-21-897-2945	Rifle Cleaning & Maintenance Kit C-7	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
31	2540-21-901-4043	Clip Mounting Lower Bracket Rifle Butt Lower	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
32	2540-21-116-6897	Clip Mounting Lower Bracket Rifle Butt Lower	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL

ITEM	NSN	DESCRIPTION / DIMENSIONS (CM)	QTY	Delivery Date	Delivery Destination	CTAT	ITAR	Comments
33	5340-21-901-8461	Clip Mounting Lower Bracket Rifle Upper Hand Guard	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
34	4910-21-869-4273	Gage Tire pressure (10-160lbs)	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
35	5140-00-772-4142	Bag Tool (10 1/8 x 20 1/4 lg)	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
36	6260-21-863-9325	Carrying Case Lantern	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
37	6260-21-908-7987	Lantern, Naphtha	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
38	7310-21-899-3982	Stove, Naphtha	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
39	1005-21-898-7045	C8 Carbine	1	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
40	1240-20-001-0587	Sight Assembly Optical Sight (C9A2 and C7A2)	2	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
41	1005-20-003-0195	C8 FTHBA3	1	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
42	1240-20-002-5226	Kit, EO Tech Sight C8	1	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
43	8465-21-907-9549	Air Mattress Carrier	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
44	1005-00-921-5004	5.56 mm Ammo Mags	12	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
45	8465-21-888-7107	Field Pack (Lg)	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
46	8465-20-000-4366	Small Pack	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
47	8465-21-905-7981	Bivy Bag	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
48	8465-21-842-6078	Sleeping Bag Outer	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
49	8465-21-842-6079	Sleeping Bag Inner	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL

ITEM	NSN	DESCRIPTION / DIMENSIONS (CM)	QTY	Delivery Date	Delivery Destination	CTAT	ITAR	Comments
50	8465-21-842-6080	Sleeping Bag Liner	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
51	8465-21-107-4616	Carrying Case Sleeping Bag	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
52	8465-21-907-9550	Air Mattress	3	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
53	5855-01-513-0941	NVG Sight	1	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
54	5855-01-513-0909	MNVG AN/PVS-14 Kit Machine Gun C9A2	1	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
55	8970-21-887-9548	IMP Rations (10 Pack Box) Breakfast	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
56	8970-21-887-9549	IMP Rations (10 Pack Box) Lunch	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
57	8970-21-887-9550	IMP Rations (10 Pack Box) Dinner	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	NIL
58	1005-20-000-9638	C7A2 Rifle	1	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
59	5855-20-001-6280	NVG AN/PVS-504B	1	TBD at 1st SEMT	TBD at 1st SEMT	YES	YES	NIL
60	TBD	GMS DCDT MOUNTING BRACKET	1	TBD at 1st SEMT	TBD at 1st SEMT	NO	NO	(130x255 x160mm)



**GOVERNMENT FURNISHED INFORMATION (GFI)**

ITEM	DOC NUMBER	DOCUMENT NAME	Delivery Date	Delivery Destination	CTAT	ITAR	Comments
1	A-LM-158-005/AG-001	TRANSPORTATION MANUAL	TBD	TBD	NO	NO	NIL
2	A-P9-050/PT-001	MANUAL OF INDIVIDUAL TRAINING AND EDUCATION, VOLUME 1 CANADIAN FORCES INDIVIDUAL TRAINING AND EDUCATION SYSTEM INTRODUCTION/DESCRIPTION	TBD	TBD	NO	NO	NIL
3	A-P9-050/PT-002	CANADIAN FORCES INDIVIDUAL TRAINING AND EDUCATION SYSTEM NEEDS ASSESSMENT	TBD	TBD	NO	NO	NIL
4	A-P9-050/PT-003	CANADIAN FORCES INDIVIDUAL TRAINING & EDUCATION SYSTEM ANALYSIS OF INSTRUCTIONAL REQUIREMENTS VOLUME 3	TBD	TBD	NO	NO	NIL
5	A-P9-050/PT-004	MANUAL OF INDIVIDUAL TRAINING AND EDUCATION VOL 4 - DESIGN OF INSTRUCTIONAL PROGRAMMES	TBD	TBD	NO	NO	NIL
6	A-P9-050/PT-005	CANADIAN FORCES INDIVIDUAL TRAINING AND EDUCATION SYSTEM	TBD	TBD	NO	NO	NIL
7	A-P9-050/PT-006	CANADIAN FORCES INDIVIDUAL TRAINING & EDUCATION SYSTEM - CONDUCT OF INSTRUCTIONAL PROGRAMMES	TBD	TBD	NO	NO	NIL
8	A-P9-050/PT-007	CANADIAN FORCES INDIVIDUAL TRAINING AND EDUCATION SYSTEM EVALUATION OF LEARNERS	TBD	TBD	NO	NO	NIL
9	A-P9-050/PT-008	MANUAL OF INDIVIDUAL TRAINING AND EDUCATION VOL 8 - VALIDATION OF INSTRUCTIONAL PROGRAMMES	TBD	TBD	NO	NO	NIL

10	A-P9-050/PT-010	MANUAL OF INDIVIDUAL TRAINING AND EDUCATION VOLUME 10 - MANAGING INDIVIDUAL TRAINING AND EDUCATION NIL IN PROJECTS	TBD	TBD	NO	NO	NIL
11	A-P9-050/PT-011	CANADIAN FORCES INDIVIDUAL TRAINING AND EDUCATIONAL SYSTEM - VOLUME 11	TBD	TBD	NO	NO	NIL
12	A-P9-050/PT-012	CANADIAN FORCES MILITARY EQUIVALENCIES PROGRAM PRIOR LEARNING ASSESSMENT (PLA)	TBD	TBD	NO	NO	NIL
13	A-P9-050/PT-013	CANADIAN FORCES INDIVIDUAL TRAINING & EDUCATION SERVICE - ADMINISTRATION OF IT&E	TBD	TBD	NO	NO	NIL
14	A-P9-050/PT-Z01	CANADIAN FORCES INDIVIDUAL TRAINING & EDUCATION SYSTEM GLOSSARY	TBD	TBD	NO	NO	NIL
15	A-P9-050/PT-Z11	CANADIAN FORCES INDIVIDUAL TRAINING AND EDUCATIONAL SYSTEM	TBD	TBD	NO	NO	NIL
16	B-GL-300-008/FP-001	LAND FORCE - TRAINING FOR LAND OPERATIONS	TBD	TBD	NO	NO	NIL
17	B-GL-314-005/FP-001	MAINTENANCE VOLUME 5 ELECTRICAL AND MECHANICAL ENGINEERING (EME) RECOVERY MANUAL	TBD	TBD	NO	NO	NIL
18	C-01-100-100/AG-005	ACCEPTANCE OF COMMERCIAL AND FOREIGN GOVERNMENT PUBLICATIONS AS ADOPTED PUBLICATIONS	TBD	TBD	NO	NO	NIL
19	C-04-010-002/AM-000	TECHNICAL MANAGEMENT POLICY AND PROCEDURES (LAND) PERMISSIVE REPAIR SCHEDULES (PRs) AND STANDARD REPAIR TIMES (SRTs)	TBD	TBD	NO	NO	NIL
20	C-30-406-000/MX-000	TRUCK, CARGO, 10 TONNE 6X6 HEAVY LOGISTIC VEHICLE WHEELED (HLVW) MODEL H807 W/O SELF RECOVERY WINCH	TBD	TBD	NO	NO	NIL

21	C-30-560-000/VS-001	EQUIPMENT STOWAGE AND SHIPPING INSTRUCTIONS CHASSIS, LIGHT ARMoured VEHICLE (LAV), ARMoured PERSONNEL CARRIER (APC), WHEELED, 8x8, DIESEL	TBD	TBD	NO	NO	NIL
22	C-55-040-001/TS-001	SAFETY PRECAUTIONS AND INCIDENT PREVENTION INSTRUCTIONS RADIO FREQUENCY SAFETY PROGRAM	TBD	TBD	NO	NO	NIL
23	C-71-200-000/MA-000	DATA SUMMARY - HOWITZER, LIGHT, TOWED, 105MM, C1 AND C2, NSN 1015-21-103-1045, AND NSN 1015-21-103-6520	TBD	TBD	NO	NO	NIL
24	C-71-332-000/MA-000	DATA SUMMARY HOWITZER LIGHT TOWED 105 MM C3 NSN 1015-21-913-4997	TBD	TBD	NO	NO	NIL
25	C-71-333-000/MA-001	DATA SUMMARY GUN, 105 MM LG1 MKII NSN 1015-14-474-0476	TBD	TBD	NO	NO	NIL
26	D-01-100-200/SF-015	SPECIFICATION - PREPARATION OF DATA SUMMARIES FOR STANDARD MILITARY PATTERN VEHICLES AND EQUIPMENTS	TBD	TBD	NO	NO	NIL
27	D-01-100-214/SF-000	SPECIFICATION FOR PREPARATION OF PROVISIONING DOCUMENTATION FOR CANADIAN FORCES EQUIPMENT	TBD	TBD	NO	NO	NIL
28	D-01-400-002/SF-000	SPECIFICATION FOR LEVELS OF ENGINEERING DRAWINGS AND ASSOCIATED LISTS	TBD	TBD	NO	NO	NIL
29	D-80-001-149/SF-001	SPECIFICATION FOR CLOTH, COATED, SYNTHETIC FIBRE AND VINYL CHLORIDE, POLYMER OR COPOLYMER	TBD	TBD	NO	NO	NIL
30	D-97-001-017/SF-001	SPECIFICATION FOR FIRE EXTINGUISHER, 2 KG, 4.5 KG, 9 KG AND 14 KG DRY CHEMICAL NORMAL AND LOW TEMPERATURE, HAND PORTABLE, CARTRIDGE OPERATED	TBD	TBD	NO	NO	NIL
31	8280008	PLATE AND EYEBOLT ASSEMBLY	TBD	TBD	NO	NO	NIL
32	8280009	PLATE, TIE-DOWN	TBD	TBD	NO	NO	NIL

33	8280010	EYE BOLT, TIE-DOWN	TBD	TBD	NO	NO	NIL
34	8281186	CABLE ASSY, POWER	TBD	TBD	NO	NO	NIL
35	9277521	HARNESS ASSEMBLY, 24V POWRE RECEPTACLE	TBD	TBD	NO	NO	NIL
36	9378942	PART NO. APPLICATION, INK STAMP, BLACK	TBD	TBD	NO	NO	NIL
37	9378947	MOUNTING PLATE, MULTI-PURPOSE	TBD	TBD	NO	NO	NIL
38	9379174	ANTENNA SUPPORT	TBD	TBD	NO	NO	NIL

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BG – LOAN AGREEMENT

## LOAN AGREEMENT

Covering the loan of Department of National Defence equipment through the Disposal, Sales, Artifacts and Loans Office

### INSTRUCTION TO CONTRACTOR:

DSAL loan No

1. Submit original copy to Disposal, Sales, Artefacts and Loans for processing.
2. The following items are not to be included in this Agreement: consumable materials, equipment for catering contractors or commercially available equipment.

<b>Contract Number:</b>	<b>Contract Description</b>
<b>If Applicable, date requested for equipment:</b>	<b>Expiry date:</b>
<b>Address of Contractor:</b>	<b>Address for equipment delivery:</b>

### This Loan Agreement is made by and between:

The Minister of National Defence (Lender) and \_\_\_\_\_  
Contractor Corporate Name (Borrower)

### Witnesseth

For and in consideration of the performance of the Terms and Conditions hereinafter referred to, the parties hereto agree as follows:

1. The Lender hereby loans to the Contractor and the Contractor hereby borrows all the equipment listed in Schedule "A-B-C" hereto, hereinafter referring to "the equipment" in the Terms and Condition, applicable to the type of defence work to be performed by the Borrower pursuant to this Loan Agreement.
  2. Schedules "A-B-C" are hereby made a part of this Agreement.
- In witness thereof the parties hereto have executed these presents.

<b>Minister of Department of National Defence (lender)</b> <b>Recommended by:</b> DND Requisitioning Authority  _____ PFO Name and title  _____ Signature Date	<b>Contractor (Borrower)</b> <b>Per:</b>  _____ Name and Title  _____ Signature Date  SEAL [ ]
<b>Approved by:</b> Section Head - Disposal, Sales, Artefacts and Loans for the Minister of National Defence  _____ Name  _____ Signature Date	

## TERMS OF LOAN AGREEMENT

### Terms Applicable to Contracted Defence Work

#### Loan Type / Accounting

1. All equipment issued under the Contract Loan Account (CLA) \_\_\_\_\_ shall be accounted for as per the Canadian Forces Supply System (CFSS) automated procedures in accordance with A-LM-007-014/AG-001 and/or A-LM-184/JS-001.
2. All equipment loaned as Special Production Tooling/Special Test Equipment (SPT/STE) shall be accounted for in either a manual or an automated system. Regardless of the system used, the Contractor shall maintain an audit trail acceptable to DND. Further, any automated or manual materiel accounting system shall first be approved by DND. Supply accounting records for DND materiel shall be maintained separate from other company records.

#### General Conditions

3. The equipment loaned to the Contractor shall be used only for the purpose of performing the defence work identified in this Contract or such other defence work as may be authorized in writing by PWGSC from time to time.
4. Commercial work shall not be carried out using the equipment.
5. The Contractor shall ensure that each item of equipment is clearly identified as the property of the Government of Canada. In addition, the Contractor shall ensure that each item of equipment is, at all times, either tagged or labeled with a clearly visible identification number corresponding to that shown on the issue document issued in respect thereof; and shall be responsible for making any changes in that number that may be notified from time to time by DND.
6. The Crown's representative(s) shall have the right to inspect the equipment at the location where it is stored or used at any time and the Contractor shall provide any reasonable assistance required for that purpose.
7. No rent shall be payable by the Contractor to the Crown in respect of equipment loaned for Canadian defence work.
8. The Department of National Defence will pay or reimburse the Contractor for reasonable and proper costs incurred by the Contractor in taking possession of the equipment and moving it to and from the Contractor's plant or other authorized location, including the cost of labour and materials in connection with the packaging and transportation of the equipment.

Initials: RA: \_\_\_\_\_ Contractor: \_\_\_\_\_ DSAL: \_\_\_\_\_

### **Stocktaking / Disposal**

9. The Contractor shall initiate and complete a one hundred per cent (100%) manual stocktaking of all DND loaned materiel contained within the Contract Loan Account (CLA), and SPT/STE at least once every two years in accordance with Volume 3 Chapter 8 of A-LM-007-014/AG-001 and/or A-LM-184/JS-001.

10. An itemized listing of all the GFE and SPT/STE materiel shall be submitted to the Requisitioning Authority within thirty (30) calendar days of completion of the stocktaking.

11. In conjunction with the stocktaking schedule, the Contractor shall carry out a review of CLA and SPT/STE to determine if stock holdings include any item which:

- has become surplus to requirement as a result of removal of the end item from the Selection Notice and Priority Summary(SNAPS); or,
- has become redundant because of a modification change notice, product improvement, etc.

12. The Contractor shall request the Requisitioning Authority's permission to dispose of and/or transfer materiel that meet the above criteria and shall prepare and handle the necessary documentation in accordance with the appropriate chapters of A-LM-007-014/AG-001 and/or A-LM-184/JS-001. On bulk transfer/disposal of DND owned materiel contained in the CLA, or SPT/STE accounts, handling fees, if applicable, are subject to a separate PWGSC negotiated rate.

### **Loss or Damage**

13. The Contractor shall report to the National Defence Quality Assurance Representative (NDQAR) all instances of loss or damage to DND owned materiel in his custody within two (2) working days of confirmation of its discovery. If the Contractor is authorized to make repairs to damaged DND-owned equipment by the Requisitioning Authority, he shall notify the NDQAR before any repair commences to enable adequate government quality assurance of the repair. Loss or damage of materiel in transit shall be actioned in accordance with Volume 3 Chapter 7 of A-LM-007-014/AG-001 and/or A-LM-184/JS-001.

14. In the event of loss or damage, the Contractor shall repair or replace, or have replaced, the equipment to the satisfaction of the Minister, or reimburse the Crown to the full value of the equipment as indicated in schedule A, B and C.

15. "Optional" at the discretion of the borrower, may insure the equipment against loss or damage by fire or supplemental perils or any other risks while the equipment is in his care, custody or control but not portion of the premium cost will be assumed by the Crown.

Initials: RA: \_\_\_\_\_ Contractor: \_\_\_\_\_ DSAL: \_\_\_\_\_



### **Termination / Return of Equipment**

16. DND may terminate the loan or any part thereof at any time, and recall the equipment concerned with that termination.

17. Unless DND otherwise advises the Contractor in writing, the Contractor shall return the equipment to the destination designated in the supply documentation upon the expiration of the loan agreement. In the event that the Contractor completes its defence work prior to the expiration of the loan agreement, the Contractor shall request return instructions from DND. When equipment is ready to be returned to DND, the Contractor shall prepare a condition report and advise the appropriate NDQAR to arrange for any necessary inspection and evaluation of the condition of the equipment.

### **Condition / Maintenance of Equipment**

18. The Contractor agrees that the equipment loaned pursuant to this Agreement is furnished "as is" by the Crown. To that end, the Crown, its Ministers, officers, servants, agents, employees and members of the Canadian Forces shall not, by virtue of having loaned the equipment to the Contractor, have made or be deemed to have made any representations, warranties or guarantees as to the condition, quality or fitness for a particular purpose of the loaned equipment; nor does the Crown, its Ministers, officers, servants, agents, employees and members of the Canadian Forces assume any liability for the results achieved or the ability or inability of the contractor to use the loaned equipment arising from any cause.

19. The Contractor shall indemnify and save harmless the Crown, its Ministers, officers, servants, agents, employees and members of the Canadian Forces from and against all claims, demands, damages, loss, costs, expenses, actions, causes of action, suits or other proceedings by whomsoever made, arising out of any injury to persons (including injuries resulting in death) or loss of or damage to property of others that may be caused by or suffered as a result of the operation, use, or transportation of the equipment by the Contractor or any action taken or things done by virtue of this loan.

20. The maintenance of the equipment shall be in accordance with DND Standards, a copy of which the Contractor acknowledges to have in its possession.

21. The Contractor shall take reasonable and proper care of the equipment at his own expense, including the maintenance and calibration, thereof during the term of this loan and shall be responsible for any loss or damage resulting from its failure to do so other than loss or damage caused by fire or by ordinary wear and tear.

### **Controlled Goods Registration**

22. If the Contractor is advised that the loaned equipment includes controlled goods, then pursuant to the Defence Production Act, access to these controlled goods is only permitted to persons or firms that are either registered, or exempt from registration, under the Controlled Goods Registration Program (CGRP). Therefore, the Contractor must demonstrate compliance to the CGRP before the equipment may be provided. If at any time, the Contractor loses its registration or its exempt status, the contractor must immediately inform the RA. The Contractor must make arrangements to cancel outstanding demands for equipment that includes controlled goods, and to return any and all of this type of equipment in his possession.

Initials: RA: \_\_\_\_\_ Contractor: \_\_\_\_\_ DSAL: \_\_\_\_\_

SCHEDULE A

The equipment listed in Schedule "A" includes Automated items, which are managed through the CFSS.

Quantity	Stock Number	Description of Equipment	DMC	Unit Value	Loan Dates

Initials: RA: \_\_\_\_\_ Contractor: \_\_\_\_\_ DSAL: \_\_\_\_\_

SCHEDULE B

The equipment listed in Schedule "B" includes items that require US Department Approval and will only be added to the loan, upon receipt of authorization.

Quantity	Stock Number	Description of Equipment	DMC	Unit Value	Loan Dates

Initials: RA:\_\_\_\_\_ Contractor:\_\_\_\_\_ DSAL:\_\_\_\_\_

SCHEDULE C

The equipment listed in Schedule "C" includes Non-Automated items, machine tools, special tools, test equipment, tooling and ground handling equipment.

Quantity	Part Number	Description of Equipment	DMC	Unit Value	Loan Dates

Initials: RA: \_\_\_\_\_ Contractor: \_\_\_\_\_ DSAL: \_\_\_\_\_

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL (RFP)

W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BH – LIST OF REFERENCES, GLOSSARY AND ABBREVIATIONS

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-2				<b>1 Applicable Documents, Standards and Definitions</b>
BH-5				The following documents, standards and definitions form part of this Contract to the extent specified in the individual Annexes, Appendices and Attachments. Unless otherwise stated in the Contract, the latest dates of issue or amendment on the date of the RFP release shall be those in effect. Wherever a specific paragraph of a document is referenced as part of a requirement, all subparagraphs of the referenced paragraph shall apply, unless otherwise indicated herein.
BH-6				<b>1.1 Canadian Forces Technical Orders and Manuals</b>
BH-349			A-EN-007-000/FP-001	DND Environmental Assessment Manual
BH-534			A-GA-135-001/AA-001	Flight Safety
BH-338			A-LM-184-001/JS-001	Special Instructions for Repair and Overhaul Contractors
BH-350			A-P9-050-000 Vol. 1 - 13	Canadian Forces Individual Training & Education System Analysis of Instructional Requirements
BH-536			A-SJ-100-002/AS-001	Department of National Defence Operation Security Standard for Information Systems
BH-351			B-GL-300-008/FP-001	Training Canada's Army
BH-322			B-GL-314-005/FT-001	Electrical and Mechanical Engineering Recovery Manual
BH-7			B-GL-342-001/FP-000	Land Equipment Management System (LEMS)
BH-297			C-01-100-100/AG-005	Acceptance of Commercial and Foreign Government Publications as Adopted Publications
BH-537			C-02-005-011/AM-000	Procedures and Guidelines for Mobile Repair Parties Manned by Contractor Personnel
BH-538			C-02-006-002/AG-000	Information Markings On Canadian Forces Equipment
BH-539			C-02-015-001/AG-000	Policy Procedures and Guidelines Unsatisfactory Condition Reporting
BH-339			C-04-010-002/AM-000	Permissive Repair Schedule and Standard Repair Times
BH-380			C-04-020-002/AG-000	Technical Management Policy and Procedures – Land Equipment Maintenance System (LEMS) – Inspection System

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-323			C-04-040-017/ME-001	Dangerous Goods Placard Holders Commercial Vehicles and Trailers
BH-324			C-30-406-000/MX-000, Plate G43 only	HLVW Parts Manual
BH-340			C-30-406-000/MA-000	Data Summary Truck, Cargo, 10 Tons, 6x6, HLVW Model H808 With Self-recovery Winch
BH-298			C-30-560-000/VS-001	Equipment Stowage and Shipping Instructions Chassis, Light Armoured Vehicle (LAV), Armoured Personnel Carrier (APC), Wheeled, 8X8, Diesel
BH-540			C-71-159-000/MA-000	Data Summary - Machine Gun, Heavy, Flexible, .50 Calibre, M2HB
BH-8			C-71-200-000/MA-000	Data Summary - Howitzer, Light, Towed, 105mm, C1 and C2
BH-541			C-71-246-000/MA-000	Data Summary - Mount, HMG, .50 Calibre
BH-542			C-71-247-000/MA-000	Data Summary - Support Assembly, Mount, Machine Gun
BH-9			C-71-332-000/MA-000	Data Summary - Howitzer, Light, Towed, 105mm, C3
BH-10			C-71-333-000/MA-001	Data Summary - Gun, 105 mm, LG1, MK II
BH-11				
BH-345			D-01-100-200/SF-015	Preparation of Data Summaries for Standard Military Pattern Vehicles and Equipment
BH-545			D-01-100-201/SF-000	Specification for Preparation of Installation Instructions
BH-355			D-01-100-207/SF-002	Preparation of Interim Illustrated Parts Manuals for Land Equipments, 1996-07-12
BH-356			D-01-100-211/SF-000	Preservation, Storage and Handling Instructions, 1991-06-01
BH-354			D-01-100-214/SF-000	Specification for Preparation of provisioning Documentation for Canadian Forces Equipment
BH-370			D-01-100-215/SF-000	Preparation of Material Change Notice
BH-678			D-01-400-002/SF-001	Specification for Levels of Engineering Drawings and Associated Lists
BH-548			D-02-002-001/SG-001	Canadian Forces Standard Identification Marking of Canadian Military Property
BH-549			D-04-001-001/SF-001	Specification for Preparation of Repair Welding Instructions (RWI)
BH-12			D-80-001-149/SF-001	Specification for Cloth, Coated, Synthetic Fibre and Vinyl Chloride, Polymer or Copolymer
BH-320			D-97-001-017/SF-001	Fire Extinguishers
BH-352			D-LM-008-001/SF-001	Methods of Packaging
BH-346			D-LM-008-002/SF-001	Specification for Marking for Storage and Shipment

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-353			D-LM-008-022/SG-000	Standard for Packaging of Documentation
BH-13			DCIEM 98-CR-15	Anthropometric Survey of the Land Forces
BH-14				<b>1.2 Canadian Forces Drawings and Datalists</b>
BH-15			8280008	Plate and Eye Bolt Assy
BH-16			8281186	Cable Assy, Power
BH-642			9277163	LSVW, Troop Body w/Tarp & Security Screen, ECC 123123 (General Arrangement Drawing)
BH-194			9277521	Harness Assembly, 24V Power Receptacle
BH-369			9378947	Mounting Plate
BH-332			9379174	Antenna Support
BH-333			VD-98-00134	Antenna, Vehicular WAS108
BH-373				<b>1.3 DRDC Technical Note</b>
BH-374				MSVS APS Survivability Testing and Scoring Methodology, August 2009
BH-381				MSVS SMP Armoured Cab Final Inspection Report
BH-357				<b>1.4 DGLEPM EHS Management System Instructions</b>
BH-358			DGLEPM I 600-04	Environmental, Health and Safety Assessment ( <a href="http://dglepm.ottawa-hull.mil.ca/dleps/dleps6/ehsms/instructions/DGLEPM%20I%20600-04-EHS%20Assessment.doc">http://dglepm.ottawa-hull.mil.ca/dleps/dleps6/ehsms/instructions/DGLEPM%20I%20600-04-EHS%20Assessment.doc</a> )
BH-639				<b>1.5 Defence Administrative Orders and Directives</b>
BH-640			DAOD 3010-1	Management of Unique Identification and Standardized Marking of Materiel
BH-641			DAOD 3010-0	Marking of Material
BH-19				<b>1.6 Canada Motor Vehicle Safety Act and Regulations and Associated Canada Motor Vehicle Safety Standards (CMVSS)</b>
BH-20				Canadian Government Publishing Center Public Works and Government Services Canada



ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
				Ottawa, Canada KIA OS9 WWW: < <a href="http://www.tc.gc.ca/acts-regulations/acts/1993c16/menu.htm">http://www.tc.gc.ca/acts-regulations/acts/1993c16/menu.htm</a> >
BH-318			CMVSS 121	Air Brake Systems
BH-21			CMVSS 209	Seat Belt Assemblies
BH-319			CMVSS 223	Rear Impact Guard
BH-618				<b>1.7 Canadian General Standards Board</b>
BH-619				Canadian General Standards Board Gatineau, Quebec, Canada K1A 1G6 E-mail: ncr.cgsb-ongc@pwgsc.gc.ca WWW: <a href="http://www.tpsgc-pwgsc.gc.ca/cgsb/">http://www.tpsgc-pwgsc.gc.ca/cgsb/</a>
BH-620			CAN/CGSB-3.517	Automotive Low Sulphur Diesel Fuel
BH-22				<b>1.8 International Organization for Standardization</b>
BH-23				International Organization for Standardization Case postale 56 CH 1211 Geneva 20 Switzerland WWW: <a href="http://www.iso.ch">http://www.iso.ch</a>
BH-24			ISO 668	Series 1 Freight Containers - Classification, Dimensions and Ratings
BH-316			ISO 2575	Road Vehicles - Symbols for Controls, Indicators and Tell-tales
BH-286			ISO 9001-2008	Quality System Requirements for Design, Development and Production
BH-201			ISO 14001	Environmental Management System
BH-25				<b>1.9 US Military Standards/Handbooks/Drawings</b>
BH-26				Standardization Document Order Desk 700 Robbins Avenue, Building 4D Philadelphia, PA, USA 19111-5094
BH-559			MIL C 53039	Coating, Aliphatic Polyurethane, Single Component, Chemical Agent Resistant
BH-317			MIL DTL 53072C	Chemical Agent Resistant Coating (CARC) System Application

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
				Procedures and Quality Control Inspection
BH-27			MIL DTL 64159 Type II	Coating, Water Dispersible Aliphatic Polyurethane, Chemical Agent Resistant
BH-562			MIL HDBK 338B	Electronic Reliability Design Handbook
BH-29			MIL PRF 10924G	Performance Specification - Grease, Automotive and Artillery
BH-30			MIL PRF 11021H	Switch, Vehicular Lights: 24 Volt DC
BH-31			MIL PRF 2104H	Performance Specification - Lubricating Oil, Internal Combustion Engine, Combat/Tactical Service
BH-32			MIL PRF 22750	Coating, Epoxy, High-Solids
BH-33			MIL PRF 24667B, Type I	Performance Specification - Coating System, non-Skid, for Roll or Spray Application
BH-34			MIL PRF 32143A	Performance Specification - Batteries, Storage: Automotive, Valve Regulated Lead Acid (VRLA)
BH-28			MIL PRF 46167D	Performance Specification - Lubricating Oil, Internal Combustion Engine, Arctic
BH-35			MIL PRF 5606H	Performance Specification Hydraulic Fluid, Petroleum Base; Aircraft, Missile, And Ordnance
BH-560			MIL PRF 87268A	Manuals, Interactive Electronic Technical - General Content, Style, Format, and User - Interaction Requirements
BH-36			MIL STD 1275D	Characteristics of 28 Volt Dc Electrical Systems in Military Vehicles
BH-37			MIL STD 1366E	Interface Standard for Transportability Criteria
BH-561			MIL STD 1388 1A	Logistic Support Analysis
BH-637			MIL STD 1388 2B	Logistic Support Analysis Record
BH-38			MIL STD 1472F	Human Engineering
BH-39			MIL STD 1474D	Department of Defence Design Criteria Standard - Noise Limits
BH-638			MIL STD 1686	Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices)
BH-359			MIL STD 2073-1E	DOD Standard Practice For Military Packaging
BH-40			MIL STD 209	Interface Standard for Lifting and Tiedown Provisions
BH-347			MIL STD 40051-1	Preparation of digital Technical Information for Interactive Electronic Technical Manuals (IETM)
BH-552			MIL STD 461E	Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-550			MIL STD 464A	Electromagnetic Environmental Effects Requirements for Systems
BH-42			MIL STD 810F	Environmental Engineering Considerations and Laboratory Tests
BH-376				<b>1.9.1 Military Specifications</b>
BH-327			MS25043-22DA	Cover, Electrical Connector, Receptacle, AN Type
BH-328			MS3102R22-2S	Connector, Receptacle, Electric, Box Mounting, Solder Contacts, AN Type
BH-43				<b>1.10 NATO STANAGs</b>
BH-49			AECTP 200, Edition 3	Environmental Conditions
BH-631			AECTP 230, Edition 1	Climatic Conditions
BH-335			AEP-55 Vol 1	Procedures for Evaluating the Protection Level of Logistic and Light Armoured Vehicles for KE and Artillery Threats
BH-372			AEP-55 Vol 2	Procedures for Evaluating the Protection Level of Logistic and Light Armoured Vehicles for Mine Threat
BH-563			STANAG 2290	Unique Identification of Items
BH-46			STANAG 2413	Demountable Load Carrying Platforms (DLCP/Flatracks)
BH-47			STANAG 2601	Standardization of Electrical Systems in Tactical Land Vehicles
BH-48			STANAG 2604	Braking Systems between Tractor, Draw-Bar Trailer and Semi-Trailer Equipment Combinations for Military Use
BH-314			STANAG 2805	Fording and Floatation Requirements for Combat and Support Vehicles
BH-315			STANAG 2829	Materials Handling Equipment
BH-50			STANAG 4007	Electrical Connectors between Prime Movers, Trailers and Towed Artillery
BH-51			STANAG 4050	Symbols Designating Function of Controls in Military Vehicles
BH-52			STANAG 4074	Auxiliary Power Unit Connection for Starting Tactical Land Vehicles
BH-53			STANAG 4101	Towing Attachments
BH-566			STANAG 4158	Guidelines for Classifying Incidents for Reliability Estimation of Tracked and Wheeled Vehicles
BH-54			STANAG 4362	Fuel for Future Ground Equipments using Compressions Ignition or Turbine Engines
BH-55			STANAG 4381	Blackout Lighting Systems for Tactical Land Vehicles

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-56			STANAG 4478	Emergency Towing and Recovery Facilities for Tactical Land Vehicles
BH-334			STANAG 4569	Protection Levels for Occupants of Logistic and Light Armoured Vehicles
BH-57				<b>1.11 UK Defence Standards</b>
BH-348			UK DEF STAN 00-60	Integrated Logistic Support, Logistic Support Analysis and Logistic Support Analysis Record
BH-58			UK DEF STAN 23-6	Technology Guidance for Military Logistics Vehicles (see <a href="http://www.dstan.mod.uk">www.dstan.mod.uk</a> )
BH-59				<b>1.12 Society of Automotive Engineers (SAE) Standards</b>
BH-60				Society of Automotive Engineers 400 Commonwealth Drive Warrendale, PA, USA 15096-0001 WWW: < <a href="http://www.sae.org/">http://www.sae.org/</a> >
BH-301			SAE J159	Rated Capacity System
BH-61			SAE J198	Windshield Wiper Systems-Trucks, Buses, and Multipurpose Vehicles
BH-311			SAE J308	Lubricating Oil, Gear Multipurpose Military Use
BH-62			SAE J311	Fluid for Passenger Car Type Automatic Transmissions
BH-63			SAE J381	Windshield Defrosting Systems Test Procedure and Performance Requirements-Trucks, Buses, and Multipurpose Vehicles
BH-312			SAE J385	Motor Vehicle Seat Belt Anchorages - Performance Requirements
BH-64			SAE J560	Seven Conductor Electrical Connector for Truck-Trailer Jumper Cable
BH-65			SAE J682	Rear Wheel Splash and Stone Throw Protection
BH-66			SAE J683	Tire Chain Clearance Trucks, Buses (Except Suburban, intercity, and Transit Buses), and Combinations of Vehicles
BH-287			SAE J686	Motor Vehicle License Plates
BH-313			SAE J703	Fuel Systems - Truck and Truck Tractors
BH-67			SAE J706	Rating of Winches
BH-302			SAE J1100	Motor Vehicle Dimensions
BH-69			SAE J1105	Horn-Forward Warning-Electric-Performance, Test, and Application
BH-303			SAE J1310	Electrical Engine Preheaters and Battery Warmers-Electric-Performance, Test and Application

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-304			SAE J1404	Service Brake Structural Integrity Requirements - Truck and Bus
BH-305			SAE J1452	Trailer Grade Parking Performance Test Procedure
BH-551			SAE J1908	Electrical Grounding Practice
BH-70			SAE J1944	Truck and Bus Multipurpose Vehicle Windshield Washer System
BH-307			SAE J1959	Corrosion Preventive Compound, Underbody Vehicle Corrosion Protection
BH-626			SAE J1992	Wheels/Rims-Military Vehicles-Test Procedures and Performance Requirements
BH-309			SAE J2180	A Tilt Table Procedure for Measuring the Static Rollover Threshold for Heavy Trucks
BH-72			SAE/USCAR-4	Standard for cigar lighter and power outlets
BH-326			SAE Z26.1-1996	Safety Code for Safety Glazing Materials for Glazing Motor Vehicles Operating on Land Highways
BH-73				<b>1.13 US Federal Standards</b>
BH-74				General Services Administration Specification Section Room 6662, 7th and D Streets, SW Washington, DC 20407
BH-76			A-A-50271	Commercial Item Description Plate, Identification
BH-78			A-A-52432A	Commercial Item Description - Mirror Assembly, Rearview: Automotive Exterior Mounting
BH-77			A-A 52624	Commercial Item Description - Antifreeze, Multi-Engine Type
BH-79			A-A-59403, Type II	Commercial Item Description - Seat Cover Cloth, Polyester or Nylon, water-Resistant
BH-75			FED-STD-595	Colors Used in Government Procurement
BH-80				<b>1.14 American Society of Mechanical Engineers (ASME)</b>
BH-81			ASME B30.22	Articulating Boom Cranes
BH-82				<b>1.15 American Society for Testing and Materials (ASTM)</b>
BH-83				American Society for Testing and Materials 100 Bar Harbor Drive

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
				West Conshohocken, PA 19428
BH-84			ASTM F 883-04	Standard Performance Specification for Padlocks
BH-609				<b>1.16 Test Operations Procedure (TOP)</b>
BH-617				US Army Test and Evaluation Command Aberdeen Proving Ground, Maryland <a href="http://itops.dtc.army.mil/RequestForDocuments.aspx">http://itops.dtc.army.mil/RequestForDocuments.aspx</a>
BH-616			TOP 1-1-014	Ride Dynamics
BH-610			TOP 2-2-602	Acceleration: Maximum and Minimum Speeds
BH-643			TOP 2-2-604	Drawbar Pull
BH-611			TOP 2-2-608	Braking, Wheeled Vehicles
BH-612			TOP 2-2-609	Steering
BH-613			TOP 2-2-610	Gradeability and Side-Slope Performance
BH-614			TOP 2-2-612	Fording
BH-615			MTP 2-2-619	Soft-Soil Vehicle Mobility
BH-634				<b>1.17 American National Standards Institute</b>
BH-635				American National Standards Institute 1899 L Street, NW 11th Floor Washington, DC 20036 Tel: 1.202.293.8020 Fax: 1.202.293.9287
BH-636			ANSI/EIA 649-A	National Consensus Standard for Configuration Management
BH-673				<b>1.18 PMO MSVS SEV Engineering Reference Documents</b>
BH-674			100980	Ladder Assembly (Rev 4, dated 7/13/2010)
BH-675			5800-6020	Access Stairs (Rev 3, dated 11-01-25)
BH-85				<b>2 Definitions</b>
BH-383	Ancillary Equipment			Ancillary equipment includes winch, crane, Load Handling System (LHS)

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-94	Chalk			List of materials and personnel that are being loaded on a particular aircraft.
BH-300	Cross Country			Cross country conditions include, but are not limited, to the following: Rocky Surfaces; Ploughed Fields; Sand; Mud; Flooded terrain; Snow and Ice; Trails; Cut Lines; Light Vegetation; Highway and Secondary roads.
BH-293	Courseware and Training Documentation			Courseware is the material required for instruction, learning, and testing events. Courseware includes: Lesson plans, CAI modules (including learning objects), reference materials (including IETPs), Student handouts, Student study materials, Training scenarios, Performance Checks (PCs), Enabling Checks (ECs). Training Documentation is formal documentation and includes: Occupation Specifications (OSs), Occupation Specialty Specifications (OSSs), Qualification Standards (QS), and Training Plans (TP).
BH-86	Curb Weight	CW		The Vehicle weight in operational status with no payload, a full fuel tank, all fluids, lubricants, coolant, ancillary equipment (as applicable by variant - including winch, crane, LHS and container interface equipment), standard kit and equipment and crew (as defined in Appendix BA, Attachment BA-1).
BH-621	Curb Weight (Trailer)	CW (T)		The Trailer weight in operational status with no payload, including the Trailer Standard Kit and Equipment (as defined in Appendix BA, Attachment BA-12).
BH-299	Equipment Fielding Coordination Centre	EFCC		Equipment Fielding Coordination Centres are established as a necessary control mechanism to ensure the efficient and effective handover of Vehicles and equipment. The EFCCs will also serve as a focal point for all Army approved capability releases.
BH-295	Full Operational Capability	FOC		The full attainment of the ability to effectively employ a new or improved capability, and for which adequate infrastructure, training, staffing, and support are in place, both for the new capability and for the organization employing it. FOC is unique to each project and is identified in the project Statement of Operational Requirement (SOR). The sponsor sets the more detailed, quantifiable FOC requirements as the project evolves.
BH-87	Gross Axle Weight Rating	GAWR		The maximum load carrying capacity of a single axle system (front(s),

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
				intermediate or rear), as measured at the tire roadway interface.
BH-605	Gross Combination Weight	GCW		Gross Vehicle Weight (not including the trailer tongue weight) plus Gross Trailer Weight.
BH-91	Gross Combination Weight Rating	GCWR		The maximum combined weight of the Vehicle plus Trailer that does not exceed any published ratings of load bearing and powertrain components (e.g. tires, wheels, axles, steering, brakes, suspension, frame, drive shafts, transfer case, transmission, engine) for continuous operation in accordance with the Mission Profile.
BH-88	Gross Trailer Weight	GTW		Curb Weight (Trailer) plus Trailer payload.
BH-622	Gross Trailer Weight Rating	GTWR		The maximum weight that the Trailer can weigh without exceeding the published ratings of the load bearing components (e.g. tires, wheels, axles, brakes, suspension, frame) for continuous operation in accordance with the Mission Profile.
BH-89	Gross Vehicle Weight	GVW		Curb weight plus APS, plus Vehicle payload.
BH-90	Gross Vehicle Weight Rating	GVWR		The maximum weight that the Vehicle can weigh without exceeding the published ratings of the load bearing and powertrain components (e.g. tires, wheels, axles, steering, brakes, suspension, frame, drive shafts, transfer case, transmission, engine) for continuous operation in accordance with the Mission Profile.
BH-99	Integrated Clothing Ensemble	ICE		A single, fully integrated clothing system to protect the CF soldier in environmental conditions ranging from wet cold to extreme cold. It is based on the layering principle, enabling the soldier to regulate body temperature and heat build-up to comfortable levels through adding and removing layers or by using a system of ventilation.
BH-231	Maintenance Significant Item	MSI		An item which, by its application or inherent characteristics, can be expected to fail or require replacement or adjustment during normal operation or maintenance of an end item.
BH-96	Off-road terrain			Any non-hard packed surface that is not maintained (i.e. unpaved roads, trails, beaches, or rough terrain). Does not include primary or secondary roads.
BH-97	On-board tools			Tools that are supplied by the manufacturer with the vehicle (e.g. tire jack, lug-wrench, etc.)
BH-95	On-road			Any smoothed or paved surface made for traveling by a motor vehicle (e.g. streets or highways).



ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-608	Project Fielding Coordination Centre	PFCC		Project Fielding Coordination Centre coordinates the day-to-day fielding of Vehicles, APSs and Trailers and resolves any problems that may arise.
BH-329	Preventative Maintenance	PM		Systematic and/or prescribed maintenance intended to reduce the probability of failure.
BH-671	Third Party			A recognized governmental authority or private entity which is completely outside of the bidding company or joint venture and qualified to conduct the required testing and/or analysis.
BH-623	Trailer Payload			The weight the Trailer can carry in addition to the Curb Weight (Trailer).
BH-288	Training Program			All Contractor and DND work activities and deliverables associated with the Analysis, Design, Development, Conduct, and Evaluation of individual training and education.
BH-624	Vehicle Payload			The weight the Vehicle can carry in addition to the Curb Weight and the weight of the APS kit.
BH-100				<b>3 Acronyms</b>
BH-252		AAS		Accountable Advanced Spares
BH-101		ABS		Anti-lock Braking System
BH-391		A/C		Air Conditioning
BH-187		AC		Allocation Code
BH-392		AECTP		Allied Environmental Conditions Testing Publication
BH-393		AEP		Allied Engineering Publication
BH-483		AIL		Action Items Log
BH-213		ALC		Alternate Logistic Control
BH-394		ANSI		American National Standards Institute
BH-484		AOP		Annual Operating Plan
BH-644		APC		Armoured Personnel Carrier
BH-102		APS		Armour Protection System
BH-395		ASD		Aerospace and Defence
BH-103		ASME		American Society of Mechanical Engineers
BH-104		ASTM		American Society of Testing and Materials

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-253		AWR		Additional Work Requirement
BH-485		BER		Beyond Economic Repair
BH-396		BIT		Built-In Test
BH-254		BOC		Brought on Charge
BH-486		C&A		Certification and Accreditation
BH-568		C of G		Centre of Gravity
BH-569		CA		Contracting Authority
BH-214		CAGE		Commercial And Government Entity Code
BH-105		CARC		Chemical Agent Resistant Coating
BH-232		CBIL		Consumable and Bulk Item List
BH-106		CCA		Cold Cranking Amperes
BH-397		CCB		Change Control Board
BH-570		CDCA		Configuration Design Change Authority
BH-107		CDRL		Contract Data Requirement List
BH-108		CF		Canadian Forces
BH-398		CFB		Canadian Forces Base
BH-399		CFFET		Canadian Field Force Equipment Table
BH-571		CFITES		Canadian Forces Individual Training and Education System
BH-255		CFM		Contractor Furnished Material
BH-256		CFQAR		Canadian Forces Quality Assurance Region
BH-109		CFR		Canadian Forces Registration
BH-572		CFSD		Canadian Forces Supply Depot
BH-573		CFSEME		Canadian Forces School of Electrical and Mechanical Engineering
BH-233		CFSS		Canadian Forces Supply System
BH-487		CFSSR		Consolidated Field Support Services Report
BH-110		CFTO		Canadian Forces Technical Order
BH-242		CGCM		Canadian Government Catalogue of Material
BH-574		CGCS		Canadian Government Cataloguing System
BH-645		CGSB		Canadian Government Standards Board
BH-205		CHU		Cargo Handling Unit
BH-400		CI		Configuration Item
BH-257		CIS		Contract Issue Spares
BH-402		CIL		Candidate Item List

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-646		cm		Centimeters
BH-403		CM		Configuration Management
BH-404		CMP		Configuration Management Plan
BH-111		CMVSS		Canadian Motor Vehicle Safety Standards
BH-203		CO		Carbon Monoxide
BH-406		COTS		Commercial Off The Shelf
BH-677		CP		Complete Penetration
BH-258		CRPA		Contractor Repair Parts Account
BH-407		CSA		Configuration Status Accounting
BH-408		CSB		Control Selector Box
BH-112		CSDB		Common Source Data Base
BH-200		CT		Conversion Training
BH-113		CTAT		Controlled Technology
BH-114		CTIS		Central Tire Inflation System
BH-575		CW		Curb Weight
BH-409		DAGR		Defence Advanced GPS Receiver
BH-488		DART		Disaster Assistance Response Team
BH-115		dB (A)		Decibels (A-Weighted)
BH-410		DCDT		Detachment Commanders Data Terminal
BH-489		DCG		Document Control Group
BH-116		DCIEM		Defence And Civil Institute Of Environmental Medicine
BH-215		DED		Data Element Dictionary
BH-411		DF		Diesel Fuel
BH-412		DGMSSC		Director General Material Systems and Supply Chain
BH-490		DI		Data Item
BH-259		DID		Data Item Description
BH-670		DLCSPM		Director Land Command Systems Program Management
BH-234		DLEPS		Directorate Land Equipment Program Staff
BH-413		DLSP		Directorate Land Strategic Planning
BH-117		DMC		De-Militarized Code
BH-414		DML		Demilitarization List
BH-235		DMMD		Director Material Management and Distribution
BH-647		DP		Diagnostics and Prognostics

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-415		DPA		Defence Power Administration
BH-118		DMRL		Data Module Requirements List
BH-119		DND		Department Of National Defence
BH-379		DQA		Director Quality Assurance
BH-260		DR		Discrepancy Report
BH-576		DRDC		Defence Research and Development Canada
BH-236		DSCO		Director Cataloguing and Initial Provisioning
BH-491		DWAN		Defence Wide Area Network
BH-120		Dwg		Drawing
BH-121		EAC		Equipment Application Code
BH-330		EBS		Equipment Breakdown Structure
BH-122		ECC		Equipment Configuration Codes
BH-577		ECCN		Export Control Classification Number
BH-416		ECL		Export Control List
BH-186		ECM		Electronic Counter Measure
BH-492		ECO		Engineering Change Order
BH-425		ECP		Engineering Change Proposal
BH-669		E3		Electromagnetic Environmental Effects
BH-123		EFCC		Equipment Fielding Coordination Centre
BH-124		EHS		Environmental Health And Safety
BH-125		EHSIR		Environmental Health and Safety Impact Report
BH-126		EHSMS		Environmental Health and Safety Management System
BH-216		EIAC		End Item Acronym Code
BH-493		EIE		Electronic Information Exchange
BH-217		EIF		Equipment Item File
BH-424		EMC		Electromagnetic Compatibility
BH-423		EMCAB		Electromagnetic Compatibility Advisory Board
BH-422		EMI		Electromagnetic Interference
BH-419		EMSEC		Emanation Security
BH-494		EMT		Equipment Management Team
BH-127		EP		Exterior Protected from the elements
BH-497		ERP		Enterprise Resourcing Plan
BH-421		ESD		Electrostatic Discharge

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-218		ESL		Equipment Support List
BH-498		EWG		Engineering Working Group
BH-499		FC		Free Carrier
BH-426		FCA		Functional Configuration Audit
BH-427		FDA		Final Design Acceptance
BH-578		FDR		Final Design Review
BH-679		FFNW		Fitted For but Not With
BH-211		FMEA		Failure Mode and Effects Analysis
BH-428		FMECA		Failure Mode and Effects Criticality Analysis
BH-128		FOC		Full Operational Capability
BH-579		FPAT		First Production Article Testing
BH-429		FPVT		First Production Vehicle Testing
BH-430		FSR		Field Service Representative
BH-431		FT		Familiarization Training
BH-648		FTP		File Transfer Protocol
BH-649		GA		General Arrangement
BH-650		GAPL		Group Assembly Parts List
BH-129		GAWR		Gross Axle Weight Rating
BH-130		GCWR		Gross Combination Weight Rating
BH-131		GFE		Government Furnished Equipment
BH-580		GFI		Government Furnished Information
BH-261		GFOS		Government Furnished Overhaul Spares
BH-500		GFY		Government Fiscal Year
BH-432		GMS		Gun Management System
BH-206		GPS		Global Positioning System
BH-262		GQA		Government Quality Assurance
BH-132		GSM		Government Supplied Material
BH-134		GTW		Gross Trailer Weight
BH-651		GUI		Graphical User Interface
BH-133		GVW		Gross Vehicle Weight
BH-135		GVWR		Gross Vehicle Weight Rating
BH-202		HF		Human Factors
BH-136		HG		Hazardous Goods

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-263		HLVW		Heavy Logistics Vehicle Wheeled
BH-653		HRI		Human Readable Interpretation
BH-652		HTTP		Hyper Text Transfer Protocol
BH-433		HVAC		Heating Ventilation and Air Conditioning
BH-137		IAW		In Accordance With
BH-138		ICE		Integrated Clothing Ensemble
BH-139		ICT		Initial Cadre Training
BH-434		IED		Improvised Explosive Device
BH-141		IETM		Interactive Electronic Technical Manual
BH-435		IETP		Interactive Electronic Technical Publication
BH-606		II		Image Intensification
BH-581		IIE		Integrated Information Environment
BH-142		ILS		Integrated Logistic Support
BH-145		ILSM		ILS Manager
BH-144		ILSMT		ILS Management Team
BH-146		IMMLC		Improved Medium Mobility Load Carrier
BH-147		IMP		Individual Meal Pack
BH-148		IP		Initial Provisioning
BH-654		IPB		Illustrated Parts Breakdown
BH-243		IPC		Initial Provisioning Conference
BH-244		IPGC		Initial Provisioning Guidance Conference
BH-195		ISL		Interim Spares List
BH-149		ISO		International Organization For Standardization
BH-436		ISP		Integrated Support Plan
BH-501		ISS		In Service Support
BH-582		ISSC		In Service Support Contract
BH-502		ISSP		In Service Support Plan
BH-503		ITAR		International Traffic in Arms Regulations
BH-504		ITSG		Information Technology Security Guidance
BH-505		ITSP		Integrated Test and Support Plan
BH-437		JIT		Just In Time
BH-607		KE		Kinetic Energy
BH-150		kg		Kilogram(s)

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-151		km		Kilometer(s)
BH-152		km/h		Kilometer(s) per Hour
BH-583		kPa		Kilopascals
BH-199		LAN/WAN		Local/Wide Area Network
BH-655		LAV		Light Armoured Vehicle
BH-219		LCB		Logistic Configuration Baseline
BH-153		LCC		Life Cycle Cost
BH-154		LCMM		Life Cycle Materiel Manager
BH-220		LCN		Logistic Control Number
BH-439		LEMS		Land Equipment Maintenance System
BH-155		LHS		Load Handling System
BH-237		LLITL		Long Lead Time Items List
BH-506		LORA		Level of Repair Analysis
BH-264		LRIP		Low Rate Initial Production
BH-245		LRU		Line Replaceable Units
BH-507		LRUR		Line Replaceable Units Reliability
BH-156		LSA		Logistic Support Analysis
BH-221		LSAR		Logistic Support Analysis Record
BH-440		LTS		Long Term Support
BH-438		LVH		Light Vehicle Harness
BH-441		LWTH		Light Weight Towed Howitzer
BH-157		m		Meter(s)
BH-656		mm		Millimeter(s)
BH-508		MACA		Months After Contract Award
BH-657		MAFDA		Months After Final Design Acceptance
BH-188		MCM		Mobile Counter Measure
BH-238		MCN		Material Change Notice
BH-442		MG		Machine Gun
BH-198		MI		Model Identification Code
BH-158		MIL-DTL		United States Military Detail Specification
BH-159		MIL-PRF		United States Military Performance Specification
BH-160		MIL-STD		United States Military Standard
BH-443		MKBF		Mean Kilometers Between Failure

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-444		MKBMF		Mean Kilometers Between Mission Failure
BH-161		MLVW		Medium Logistics Vehicle Wheeled
BH-162		mm		Millimeter(s)
BH-296		MMP		Mean Maximum Pressure
BH-585		MOSID		Military Occupational Structure Identification Code
BH-445		MOTS		Military Off The Shelf
BH-586		MPS		Master Project Schedule
BH-509		MR		Major Repair
BH-510		MRC		Maximum Repair Cost
BH-587		MRN		Manufacturer's Reference Number
BH-511		MRP		Major Repair Program
BH-265		MRP		Mobile Repair Parties
BH-512		MRPR		Major Repair Program Report
BH-683		MRT		Mobile Repair Truck
BH-658		MSD		Maintenance Support Device
BH-266		MSDS		Material Safety Data Sheets
BH-446		MSE Op		Mobile Support Equipment Operator
BH-222		MSI		Maintenance Significant Items
BH-447		MSRPL		Manufacturers Suggested Retail Price List
BH-163		MSVS		Medium Support Vehicle Systems
BH-223		MTA		Maintenance Task Analysis
BH-448		MTTR		Mean Time To Repair
BH-627		MVLS		Master Vehicle Light Switch
BH-197		NAMSA		NATO Maintenance and Supply Agency
BH-164		NATO		North Atlantic Treaty Organization
BH-189		NAU		Network Access Unit
BH-165		NBC		Nuclear Biological And Chemical
BH-588		NCAGE		NATO Commercial And Government Entity
BH-589		NCB		National Codification Bureau
BH-513		NCR		National Capital Region
BH-590		NCSM		NATO Supply Code for Manufacturer
BH-246		NDHQ		National Defence Headquarters
BH-659		NDI		Non Destructive Inspection



ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-449		NDID		National Defence Index Number
BH-267		NDT		Non-Destructive Testing
BH-514		NDQAR		National Defence Quality Assurance Region
BH-210		NH <sub>3</sub>		Ammonia
BH-591		NLT		No Later Than
BH-207		NO <sub>2</sub>		Nitrogen Dioxide
BH-604		N <sub>2</sub> O <sub>4</sub>		Dinitrogen Tetroxide
BH-515		NOR		Notice of Revision
BH-166		NSN		NATO Stock Number
BH-167		NVG		Night Vision Goggles
BH-450		OEM		Original Equipment Manufacturer
BH-516		OJT		On the Job Training
BH-517		OM		Obsolescence Management
BH-453		OPI		Office of Primary Interest
BH-454		OWSM		Optimized Weapon System Management
BH-455		PCA		Physical Configuration Audit
BH-592		PCB		Polychlorinated Biphenyl
BH-456		PD		Project Director
BH-594		PDI		Pre Delivery Inspection
BH-518		PDR		Preliminary Design Review
BH-190		PDU		Power Distribution Unit
BH-660		PEDD		Portable Electronic Display Device
BH-519		PEL		Performance Exceptions List
BH-593		PFCC		Project Fielding Coordination Centre
BH-168		PHST		Packaging, Handling, Storage & Transportation
BH-567		PM		Project Management
BH-457		PM		Preventative Maintenance
BH-520		PMCS		Project Management Control System
BH-239		PMO		Project Management Office
BH-458		PMP		Project Management Plan
BH-268		PN		Part Number
BH-224		PPB		Provisioning Parts Breakdown
BH-459		PRM		Progress Review Meeting or Project Review Meeting

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-269		PRR		Priority Repair Request
BH-270		PRS		Permissive Repair Schedule
BH-460		PTO		Power Take Off
BH-271		PWGSC		Public Works and Government Services (Canada)
BH-169		PWS		Protected Weapon Station
BH-272		QA		Quality Assurance
BH-273		QAM		Quality Assurance Manager
BH-196		QAP		Quality Assurance Program
BH-461		QAR		Quality Assurance Representative
BH-661		QC		Quality Conformance
BH-462		QCI		Quality Conformance Inspection
BH-662		QCT		Quality Conformance Testing
BH-225		QPA		Quantity Per Assembly
BH-463		R&O		Repair and Overhaul
BH-191		RAD A+		Radio and Amplifiers
BH-452		RADHAZ		Radio Frequency Radiation Hazard
BH-668				Radio Frequency Safety
BH-663		RAM		Reliability, Availability and Maintainability
BH-596		RAMD		Reliability, Availability, Maintainability and Durability
BH-274		RC		Regional Commander
BH-212		RCM		Reliability Centered Maintenance
BH-331		RFD		Request for Deviations
BH-170		RFP		Request For Proposal
BH-521		RFQ		Request for Quote
BH-464		RFW		Request for Waiver
BH-247		RLLTIL		Recommended Long Lead Time Item Lists
BH-275		RMA		Repairable Material Account
BH-522		RMR		Repairable Material Request
BH-630		ROT		Rollover Threshold
BH-465		RPM		Revolutions Per Minute
BH-276		RSA		Repair Shop Account
BH-240		RSERL		Recommended Support Equipment Requirements Lists
BH-248		RSPL		Recommended Spare Parts Lists

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-523		RTAR		Reliability/Trend Analysis Report
BH-664		RV		Requirement Verification
BH-466		RWS		Remote Weapons Station
BH-171		SAE		Society Of Automotive Engineers
BH-249		SAR		Sparing Analysis Report
BH-524		SC		Stock Code
BH-467		SCN		Specification Change Notice
BH-468		SE		Systems Engineering
BH-469		SEM		Systems Engineering Management
BH-470		SEMP		Systems Engineering Management Plan
BH-471		SEMT		Systems Engineering Management Team
BH-172		SEV		Special Equipment Vehicle
BH-597		SFF		Small Form Factor
BH-277		SHC		Stock Holding Code
BH-278		SITs		Special Investigation and Technical Studies
BH-279		SME		Subject Matter Expert
BH-173		SMP		Standard Military Pattern
BH-226		SMR		Source Maintenance & Recoverability Code
BH-280		SNAPS		Selection Notice and Priority Summary
BH-525		SNOM		Selection Notice Observation Message
BH-209		SO <sub>2</sub>		Sulfur Components
BH-174		SOR		Statement Of Requirements
BH-526		SOS		Statement of Sensitivity
BH-175		SOW		Statement Of Work
BH-176		SP		Seating Positions
BH-192		SPD		Single Port Dipole
BH-250		SPTD		Supplementary Provisioning Technical Data
BH-665		SRT		Standard Repair Time
BH-527		SSR		Services Status Report
BH-177		STANAG		NATO Standardization Agreement
BH-251		STTE		Special Tools and Test Equipment
BH-178		STTEL		Special Tools And Test Equipment List
BH-281		TA		Technical Authority

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-282		TAT		Turn Around Time
BH-666		TCP		Technical Compliancy Program
BH-528		TD		Technical Documentation
BH-472		TDMP		Technical Documentation Management Plan
BH-473		TDP		Technical Data Package
BH-179		TDWG		Training Development Working Group
BH-283		TIES		Technical Investigation and Engineering Services
BH-180		TLTRR		Task List And Training Requirement Report
BH-227		TM		Technical Manual
BH-529		TP		Technical Problem
BH-474		TPMP		Technical Publication Management Plan
BH-530		TPMS		Technical Problem Management System
BH-181		TPP		Training Program Plan
BH-531		TPTAT		Technical Problem Turn Around Time
BH-532		TSR		Technical Services Representative
BH-193		UCD		User Control Device
BH-284		UCR		Unsatisfactory Condition Report
BH-228		UI		Unit of Issue
BH-667		UII		Unique Item Identifier
BH-182		UK		United Kingdom
BH-229		UM		Unit of Measure
BH-230		UOC		Usable On Code
BH-599		UOI		Unit Of Issue
BH-600		US		United States
BH-476		USCAR		United States Council for Automotive Research
BH-477		USML		United States Munitions List
BH-183		VDC		Voltage Direct Current
BH-601		VHF		Very High Frequency
BH-184		VIN		Vehicle Identification Number
BH-285		VMO		Vehicle Movement Order
BH-241		VTs		Vehicle Test Set
BH-603		WBS		Work Breakdown Structure
BH-533		WD		Working Days

ID	Term	Acronym	Document ID	List of References, Glossary and Abbreviations for the SMP
BH-478		WES		Weapons Effects Simulations
BH-479		WS		Weapon Station

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP) RFP**

Request For Proposal  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

ANNEX B - STATEMENT OF WORK

APPENDIX BI – CF VEHICLE TECHNICIAN TOOL LIST

GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5120	001897917	SOCKET, SOCKET WRENCH	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»168 INTERNAL-INTERNAL»OVERALL LENGTH»2.015 INCHES MAXIMUM »WRENCHING END OUTSIDE DIAM	A40	EA	1	SOCKET 1 1/4 INCHES REG
5110	002211085	SHEARS, METAL CUTTING, HAND	OVERALL LENGTH»7.000 INCHES NOMINAL»LEFT-HAND OPERATION FEATURE»NOT PROVIDED»SINGLE LEVER PATTERN TYPE»DUCKBILL COMBINATION»SPECIFIC ATION/STANDARD DATA»05047-A	V13	EA	1	SHEAR METAL CUTTING
5120	002221596	WRENCH, BOX	OVERALL LENGTH»6.500 INCHES MINIMUM»LARGE END OUTSIDE DIAMETER»0.946 INCHES MAXIMUM»SMALL END OUTSIDE DIAMETER»0.868 INCHES MAXIMUM»LARGE END HEAD THICKNESS»0.	CX1820	EA	1	HALF MOON WRENCH 5/8 & 9/16"
5120	002221597	WRENCH, BOX	WRENCH, BOX. 12 PT, SIZE 5/8 AND 3/4 IN., 7-1/4 IN. LG O/A	CX2024	EA	1	HALF MOON WRENCH 5/8 & 3/4"
5120	002237397	PLIERS, SLIP JOINT	PLIERS, SLIP JOINT	B8	EA	1	PLIERS SLIP JOINT 2 POSITION
5120	002243102	WRENCH, OPEN END	WRENCH, OPEN END. DOUBLE HEAD, 0.625 AND 0.750 (5/8 AND 3/4) IN. SIZES, 15 DEG ANGLE HEADS, 0.344 (11/32) IN. THK HEADS, 7.000 IN. LG O/A, FED GGG-W-6 36, TYPE 4, STYLE 2	E2024	EA	1	OPEN WRENCH 5/8 & 3/4"
5120	002243136	WRENCH, BOX	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»42 DEEP ANGULAR OFFSET DOUBLE HEAD»OVERALL LENGTH»7.969 INCHES MINIMUM»LARGE END OUT	2805L	EA	1	BOX WRENCH 1/2 & 9/16" LONG
5120	002243143	WRENCH, BOX	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»42 DEEP ANGULAR OFFSET DOUBLE HEAD»OVERALL LENGTH»13.500 INCHES MINIMUM»LARGE END OUT	XV3032	EA	1	BOX WRENCH 15/16 & 1"
5120	002243153	WRENCH, BOX	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»42 DEEP ANGULAR OFFSET DOUBLE HEAD»OVERALL LENGTH»4.250 INCHES MINIMUM AND 5.250 INC	TS5120-0453- 3/8X7/16	EA	1	BOX WRENCH 3/8 & 7/16"
5120	002243154	WRENCH, BOX	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»42 DEEP ANGULAR OFFSET DOUBLE HEAD»OVERALL LENGTH»5.000 INCHES MINIMUM AND 6.000 INC	A165407	EA	1	BOX WRENCH 1/2 & 9/16" SHORT
5120	002244047	HAMMER, HAND	HAMMER, HAND	BPC32	EA	1	HAMMER 2 LBS
5120	002247370	SCREWDRIVER, CROSS TIP	OVERALL LENGTH»3.000 INCHES NOMINAL»BLADE LENGTH»1.000 INCHES NOMINAL»TIP TYPE»PHILLIPS CROSS»TIP SIZE DESIGNATION»1»MATERIAL»HANDLE PLASTIC»MATERIAL»BLADE STEE	MS15224-2	EA	1	SCREWDRIVER PHILLIPS STUBBY
5120	002277356	SCREWDRIVER, FLAT TIP	OVERALL LENGTH»9.750 INCHES NOMINAL»BLADE LENGTH»6.000 INCHES NOMINAL»TIP WIDTH»0.188 INCHES NOMINAL»SHANK SHAPE»ROUND»END THICKNESS»0.033 INCHES NOMINAL»FEATUR	C1008-6	EA	1	SCREWDRIVER FLAT TIP 3/16 X 6" LG
5120	002289503	WRENCH, BOX AND OPEN END, COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»63 OFFSET»OVERALL LENGTH»3.250 INCHES MINIMUM»HEAD ANGLE» 15.0 DEGREES NOMINAL»WRENCH	MS16367-1	EA	1	COMBINATION WRENCH 5/16"
5120	002289504	WRENCH, BOX AND OPEN END, COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»63 OFFSET»OVERALL LENGTH»4.188 INCHES MINIMUM»HEAD ANGLE» 15.0 DEGREES NOMINAL»WRENCH	G243079-A	EA	1	COMBINATION WRENCH 3/8"
5120	002289505	WRENCH, BOX AND OPEN END, COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»63 OFFSET»OVERALL LENGTH»5.000 INCHES MINIMUM»HEAD ANGLE» 15.0 DEGREES NOMINAL»WRENCH	MS16367-3	EA	1	COMBINATION WRENCH 7/16"

GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5120	002289506	WRENCH,BOX AND OPEN END,COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»63 OFFSET»OVERALL LENGTH»5.250 INCHES MINIMUM»HEAD ANGLE»15.0 DEGREES NOMINAL»WRENCH	AT00-00003	EA	1	COMBINATION WRENCH 1/2"
5120	002289507	WRENCH,BOX AND OPEN END,COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»63 OFFSET»OVERALL LENGTH»5.750 INCHES MINIMUM»HEAD ANGLE»15.0 DEGREES NOMINAL»WRENCH	BG/FN/2155-05	EA	1	COMBINATION WRENCH 9/16"
5120	002289508	WRENCH,BOX AND OPEN END,COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»63 OFFSET»OVERALL LENGTH»6.125 INCHES MINIMUM»HEAD ANGLE»15.0 DEGREES NOMINAL»WRENCH	MS16367-6	EA	1	COMBINATION WRENCH 5/8"
5120	002289509	WRENCH,BOX AND OPEN END,COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»63 OFFSET»OVERALL LENGTH»7.000 INCHES MINIMUM»HEAD ANGLE»15.0 DEGREES NOMINAL»WRENCH	0EX22	EA	1	COMBINATION WRENCH 11/16"
5120	002289510	WRENCH,BOX AND OPEN END,COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»63 OFFSET»OVERALL LENGTH»8.000 INCHES MINIMUM»HEAD ANGLE»15.0 DEGREES NOMINAL»WRENCH	FA17082	EA	1	COMBINATION WRENCH 3/4"
5210	002345223	RULE,MACHINIST'S	MATERIAL»STEEL»LENGTH»6.000 INCHES»WIDTH»0.700 INCHES MINIMUM AND 0.760 INCHES MAXIMUM»THICKNESS»0.040 INCHES MINIMUM AND 0.051 INCHES MAXIMUM»EDGE SMALLEST GRA	182-101	EA	1	RULE STEEL 6" LG
5120	002348912	SCREWDRIVER,CROSS TIP	MATERIAL»HANDLE PLASTIC»MATERIAL»HANDLE PLASTIC»MATERIAL»BLADE STEEL»MATERIAL»BLADE STEEL»BLADE LENGTH»6.000 INCHES NOMINAL»BLADE LENGTH»6.000 INCHES NOMINAL»T	SCC539894-4	EA	1	SCREWDRIVER PHILIPS #3
5120	002348913	SCREWDRIVER,CROSS TIP	MATERIAL»HANDLE PLASTIC»MATERIAL»HANDLE PLASTIC»MATERIAL»BLADE STEEL»MATERIAL»BLADE STEEL»BLADE LENGTH»4.000 INCHES NOMINAL»BLADE LENGTH»4.000 INCHES NOMINAL»T	BD122	EA	1	SCREWDRIVER PHILLIPS #2
5120	002406050	BAR,PINCH	OVERALL LENGTH»16.000 INCHES NOMINAL»WIDTH ACROSS FLATS»0.625 INCHES NOMINAL»MATERIAL»STEEL»	C38	EA	1	PINCH BAR 16 INCHES
5120	002406083	PUNCH,DRIVE PIN	SHANK DIAMETER»0.375 INCHES NOMINAL»OVERALL LENGTH»4.000 INCHES NOMINAL»PIN LENGTH»1.000 INCHES MINIMUM»SHANK SHAPE»ROUND»FEATURES PROVIDED»KNURLED SHANK»POINT	P8	EA	1	PUNCH DRIVE PIN 1/4
5120	002408702	ADAPTER,SOCKET WRENCH	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»6 EXTERNAL-INTERNAL»OVERALL LENGTH»1.250 INCHES MINIMUM AND 1.500 INCHES MAXIMUM»SOUTS	A4	EA	1	SOCKET REDUCER 1/2" DRV TO 3/8" DRV
5120	002408716	SCREWDRIVER,CROSS TIP	TIP DIAMETER»0.188 INCHES NOMINAL»BLADE LENGTH»3.000 INCHES NOMINAL»TIP TYPE»PHILLIPS CROSS»TIP SIZE DESIGNATION»1»MATERIAL»HANDLE PLASTIC»MATERIAL»BLADE STEEL»	AT00-00004	EA	1	SCREWDRIVER PHILLIPS #1
5110	002419152	FILE,HAND	STYLE DESIGNATOR»B44 HALF-ROUND TYPE»PATTERN TYPE»AMERICAN»HEEL TO POINT DISTANCE»8.000 INCHES NOMINAL»FACE CUT TYPE»DOUBLE CUT, SMOOTH OR SINGLE CUT, SMOOTH»	41F952	EA	1	FILE HALF ROUND, 8 INCH
5120	002423917	HAMMER,HAND	STYLE DESIGNATOR»16 MACHINIST'S BALL-PEEN»HEAD WEIGHT»16.000 OUNCES»SPECIAL FEATURES»ZC NON-CONCUR TO CANCELLATION»NONDEFINITIVE SPEC /STD DATA»2 TYPE AND 1 CLAS	CH310	EA	1	HAMMER 1 LBS
5120	002432963	HAMMER,HAND	HAMMER,HAND	BP24	EA	1	HAMMER 1 1/2 LBS
5120	002489407	PLIERS	OVERALL LENGTH»7.000 INCHES NOMINAL»PLIERS STYLE DESIGNATOR»A14 BATTERY TERMINAL»INSULATED HANDLE»NOT PROVIDED»	GGGP471TYPE1	EA	1	PLIERS BATTERY TERMINAL



GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5345	002501345	DRESSER,CONTACT POINT	END SHAPE»RECTANGULAR»OVERALL WIDTH»0.375 INCHES NOMINAL»THICKNESS»0.025 INCHES»NOMINAL»LENGTH»4.500 INCHES NOMINAL»SPECIAL TEST FEAT URES»FLEXIBLE PLASTIC SHEE	FLEX-STONE 0002	PG	1	
5110	002516481	SCRAPER,CARBON,FLEXIBLE	SCRAPER,CARBON,FLEXIBLE.9 IN. LG O /A,1IN. W BLADE,10 FLEXIBLE BLADES	CS1	EA	1	SCRAPER CARBON
5120	002645211	WRENCH,BOX	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»42 DEEP ANGULAR OFFSET DOUBLE HEAD»OVERALL LENGTH»15.812 INCHES MINIMUM»LARGE END OUT	XV3436	EA	1	BOX WRENCH 1 1/18 & 1 1/16
5210	002742857	GAGE,THICKNESS	GAGE,THICKNESS.ENGLISH;STR;26 BLADES;1 BLADE GROUP;3 IN. NOM BLADE LG;0.500 IN.NOM TIP W;BLADE LOCK;C/O 0.0015,0.002,0.0025,0.003 T O 0.025 (IN 0.001 IN. STEPS	FG26	EA	1	FEELER GAUGE 26 BLADE
5120	002771228	WRENCH,OPEN END	MATERIAL»OVERALL STEEL»STYLE DESIGNATOR»104 DOUBLE HEAD»OVERALL LENGTH»6.375 INCHES MINIMUM»LARGE END HEAD THICKNESS»0.328 INCHES MA XIMUM»SMALL END HEAD THICKN	BW27	EA	1	OPEN WRENCH 19/32 & 11/16"
5120	002772342	WRENCH,OPEN END	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»104 DOUBLE HEAD»OVERALL LENGTH»4.375 INCHES MINIMUM»LARGE END HEAD THICKNESS»0.234 IN	OES-1214	EA	1	OPEN WRENCH 3/8 & 7/16"
5120	002777025	WRENCH,OPEN END	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»104 DOUBLE HEAD»OVERALL LENGTH»10.000 INCHES»MINIMUM»LARG E END HEAD THICKNESS»0.422	FA17101	EA	1	OPEN WRENCH 15/16 & 1"
5120	002778309	WRENCH,OPEN END	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»104 DOUBLE HEAD»OVERALL LENGTH»3.440 INCHES MAXIMUM»LARGE END HEAD THICKNESS»0.109 IN	DS1416	EA	1	
5120	002778310	WRENCH,OPEN END	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»104 DOUBLE HEAD»OVERALL LENGTH»3.440 INCHES MAXIMUM»LARGE END HEAD THICKNESS»0.109 IN	DS1513	EA	1	
5120	002778312	WRENCH,OPEN END	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»104 DOUBLE HEAD»OVERALL LENGTH»3.690 INCHES MAXIMUM»LARGE END HEAD THICKNESS»0.156 IN	DS2018	EA	1	
5120	002778314	WRENCH,OPEN END	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»104 DOUBLE HEAD»OVERALL LENGTH»3.940 INCHES MAXIMUM»LARGE END HEAD THICKNESS»0.156 IN	E28	EA	1	
5120	002780352	PLIERS,SLIP JOINT	OVERALL LENGTH»10.000 INCHES NOMINAL»PLIERS STYLE DESIGNATOR»A79 ANGLE NOSE, MULTIPLE TONGUE AND GROOVE»INSULATED HANDLE»NOT PROVIDE D»SPECIAL FEATURES»STRAIGHT	G10N	EA	1	PLIERS MULTIGRIP ALIGATOR
5120	002889302	WRENCH,BOX	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM»STYLE DESIGNATOR»42 DEEP ANGULAR OFFSET DOUBLE HEAD»OVERALL LENGTH»9.750 I NCHES MINIMUM»LARGE END OUT	X2024	EA	1	BOX WRENCH 5/8 & 3/4" LONG
7920	002915815	BRUSH,WIRE,SCRATCH	STYLE DESIGNATOR»D7 CURVED HANDLE ROCKER RECTANGULAR FACE»OVERALL LENGTH»13.688INCHES MINIMUM AND 14.250 INCHES MAXIMUM»BRUSH PART LENGTH»5.500 INCHES MINIMUM	973	EA	1	WIRE BRUSH
5120	002930791	PUNCH,DRIVE PIN	SHANK DIAMETER»0.312 INCHES NOMINAL»OVERALL LENGTH»4.000 INCHES NOMINAL»PIN LENGTH»0.938 INCHES MINIMUM»SHANK SHAPE»ROUND»FEATURES PROVIDED»KNURLED SHANK»POINT	P6	EA	1	PUNCH DRIVE PIN 3/16
5120	003576075	HAMMER,HAND	HAMMER,HAND.SCREW-IN,INSERTED FACE ,1.250(1-1/4) LB NOM TOTAL WT,PLASTIC FACE,MEDIUM HARD ,1.500 (1-1/2) IN. NOM DIA FACE,FED G GG-H-33,TYPE 1,CLASS 3,STYLE DDE	1383	EA	1	HAMMER PLASTIC 1 1/4 LBS

GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5120	005968502	SCREWDRIVER,FLAT TIP	BLADE LENGTH»1.500 INCHES NOMINAL\$TIP WIDTH»0.250 INCHES NOMINAL\$SHANK SHAPE»ROUND\$END THICKNESS»0.040 INCHES NOMINAL\$FEATURES PROVIDED»FLARED TIP SIDE AND STRA	A132	EA	1	SCREWDRIVER FLAT TIP STUBBY
5120	009354641	KEY SET,SOCKET HEAD SCREW	HANDLE TYPE»L-STYLE\$KEY QUANTITY»20\$CONTAINER TYPE»ROLL\$KEY CHARACTERISTIC»CONTAINS HEX KEYS SIZE 0.028, 0.035, 0.050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32,	AW1020K	EA	1	ALLEN KEYS SET, 20 ITEMS STANDARD
5120	010465079	KEY SET,SOCKET HEAD SCREW	HANDLE TYPE»L-STYLE\$KEY QUANTITY»14\$CONTAINER TYPE»BAG\$KEY CHARACTERISTIC»CONTAINS HEX KEYS SIZE 2, 2.5, 3, 4, 5, 6, 7,8, 9, 10, 12 , 14, 17 AND 19MM\$FEATURES	AWM140CK	SE	1	SET, ALLEN KEY, METRIC, L-TYPE 16 ITEMS, S51-597
5120	011120548	SOCKET,SOCKET WRENCH	SOCKET,SOCKET WRENCH. 30.0 MM SIZE, 1/2IN. SQ DR,12 POINT,76.0 MM NOM LG O/A,STEEL CHROME FINISH	MD1230	EA	1	SOCKET DEEP 30 MM IN 1/2" DRV
5120	011120569	SOCKET,SOCKET WRENCH	SOCKET,SOCKET WRENCH. 18.0 MM SIZE,1/2 IN. SQ DR,12 PT,76.0 MM NOM LG O/A, STEEL,CHROME FINISH	MD1218	EA	1	SOCKET DEEP 18 MM IN 1/2" DRV
5120	011120572	SOCKET,SOCKET WRENCH	MATERIAL»OVERALL STEEL\$SURFACE TREATMENT»OVERALL CHROMIUM\$STYLE DESIGNATOR»168 INTERNAL-INTERNAL\$OVERALL LENGTH»76.0 MILLIMETERS MINIMUM\$WRENCHING END OUTSIDE D	D19L24	EA	1	SOCKET DEEP 24 MM IN 1/2" DRV
5120	011681131	SCREWDRIVER,SIX POINT TIP	TIP TYPE»TORX\$TIP SIZE DESIGNATION»T15\$HANDLE MATERIAL»PLASTIC\$OVERALL LENGTH»6.875 INCHES NOMINAL\$BLADE LENGTH»3.375 INCHES NOMINAL\$EXTERNAL SCREW GRIPPER»NOT	BWT T15	EA	1	6 PT TIP, TORX TIP, T15
5120	011681132	SCREWDRIVER,SIX POINT TIP	TIP TYPE»TORX\$TIP SIZE DESIGNATION»T20\$HANDLE MATERIAL»PLASTIC\$OVERALL LENGTH»6.875 INCHES NOMINAL\$BLADE LENGTH»3.000 INCHES NOMINAL\$EXTERNAL SCREW GRIPPER»NOT	T-20	EA	1	6 PT TIP, TORX TIP, T20
5120	011681133	SCREWDRIVER,SIX POINT TIP	TIP TYPE»TORX\$TIP SIZE DESIGNATION»T27\$HANDLE MATERIAL»PLASTIC\$OVERALL LENGTH»8.000 INCHES NOMINAL\$BLADE LENGTH»4.000 INCHES NOMINAL\$EXTERNAL SCREW GRIPPER»NOT	BWT T27	EA	1	6 PT TIP, TORX TIP, T27
5120	011689569	SCREWDRIVER,SIX POINT TIP	TIP TYPE»TORX\$TIP SIZE DESIGNATION»T25\$HANDLE MATERIAL»PLASTIC\$OVERALL LENGTH»7.625 INCHES NOMINAL\$BLADE LENGTH»3.750 INCHES NOMINAL\$EXTERNAL SCREW GRIPPER»NOT	BWT T25	EA	1	6 PT TIP, TORX TIP, T25
5120	011998439	WRENCH,BOX	WRENCH,BOX. ANGULAR OFFSET,DBL HD,SIZE 5/8 AND 3/4 IN.,12 PT BOTH ENDS,6-3/4 IN. MAX LG O/A	AS954TY2CL3ST BSZ5/8X3/4	EA	1	BOX WRENCH 5/8 & 3/4" SHORT
5110	011998602	HANDLE,FILE	MATERIAL»OVERALL WOOD\$OVERALL LENGTH»4.500 INCHES NOMINAL\$OVERALL DIAMETER»1.000 INCHES NOMINAL\$SPECIAL FEATURES»ADJUSTABLE JAWS; 3/8 IN. MAX OPENING\$	GA98	EA	1	FILE HANDLE ADJUSTABLE
5120	121209219	WRENCH,BOX	DOUBLE OFFSET,DOUBLE HEAD,24 AND 26 MM SIZES,12 POINT BOTH ENDS,14 MM NOM THK HEAD SMALL END,15 MM NOM THK HEAD LARGE END, 335 MM NO M O/A LG,STEEL,CHROME PLATE	TL5120-0074-190	EA	1	WRENCH DOUBLE OFFSET, 24 & 26 MM
5120	121235251	WRENCH,BOX	HALF-MOON DOUBLE HEAD,1 4 AND 17 MM SIZES,12 PT BOTH ENDS,26 MM NOM OD LARGE E ND,22 MM NOMOD SMALL END,9 TO 10 MM MAX THK HEAD LARGE END,8 TO 8.5 MM MAX THK HE	CXM1417	EA	1	HALF MOON WRENCH 14 & 17 MM
5120	121235338	WRENCH,BOX AND OPEN END,COMBINATION	WRENCH,BOX AND OPEN END,COMBINATIO N. 30.0 MM SIZE BOTH ENDS,12 POINT BOX END ON 15 DEG ANGLE OFFSET HEAD,480.0 MM OVERALL LENGTH,18.0 MM BOX END HEAD THK,11.5	H24119	EA	1	COMBINATION WRENCH 30 MM
5120	121471839	SOCKET,SOCKET WRENCH	SOCKET,SOCKET WRENCH	CH1991/7	EA	1	SOCKET DEEP 36 MM IN 3/4" DRV

GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5120	121482952	WRENCH,PIPE	SPECIAL FEATURES»ROHRGRIFF, ANGRIF IN KLEMMRING-AUSFUEHRUNG, 2-FACH GELENKGELAGERT MIT SELBSTSPANNENDEM OEFFNUNGSMECHANISMUS§ NATO ITEM DESCRIPTION WRENCH,PIPE	2360-261166.00.0	EA	1	PIPE WRENCH FOR LEOPARD
4930	121762893	OILER,HAND	OILER,HAND	Y655-2	EA	1	OILER
5120	211051963	PLIERS	OVERALL LENGTH»6.0 INCHES NOMINAL§SPECIAL FEATURES»VINYL COATED HANDLES,FINISH- POLISHED ALLOVER OR POLISHED HEADS OR CHROME OR NICKEL PLATING OR CHEMICALLY PROD	ZCC180-052	EA	1	PLIER LONG NOSE
5120	211052072	PUNCH,DRIVE PIN	POINT LENGTH»3.5 INCHES NOMINAL§DIAMETER»0.312 INCHES NOMINAL§POINT CROSS-SECTIONAL SHAPE»ROUND§SHAPE»STRAIGHT§	248D	EA	1	PUNCH DRIVE PIN 5/16
5120	211052091	PUNCH,DRIVE PIN	PUNCH,DRIVE PIN.NONSPARKING AND NONMAGNETIC,PARALLEL TYPE,0.500(1/2) IN. NOM DIA STOCK , 10.000 IN. NOM LG O/A,LOCALLY MANUFACTU RED FROM METAL BAR 9530-21-664-	89206	EA	1	PUNCH BRASS 1/2
5120	211053706	WRENCH SET,SOCKET	WRENCH SET,SOCKET	L-49-070-325/LC- 001	SE	1	KIT 1/4" DRV STANDARD, REF S51-047
5120	211053707	WRENCH SET,SOCKET	WRENCH SET,SOCKET	L-49-070-325/LC- 002	SE	1	KIT 3/8" DRV STANDARD, REF S51-048
5120	211053708	WRENCH SET,SOCKET	WRENCH SET,SOCKET	L-49-070-325/LC- 003	SE	1	KIT 1/2" DRV STANDARD, REF S51-050
5340	211074534	PADLOCK	OPERATING MECHANISM TYPE»PIN TUMBLER§SHACKLE CLEARANCE»0.812 INCHES NOMINAL§SHACKLE DIAMETER»0.312 INCHES NOMINAL§	PWGSC9401	EA	1	PADLOCK F2 S2
5210	211087933	GAGE,GAP SETTING	GAGE,GAP SETTING. 8 ANGULAR WIRES;FOLDING TYPE;WITH LOCK;WITH GAP ADJUSTER,STEEL HOLDER;0.020,0.025,0.028,0.030,0.032, 0.034,0.035 A ND 0.040 IN. DIA WIRES;SPEC	FB301	EA	1	SPARKPLUG GAUGE FG7A
5120	211089150	PUNCH,DRIVE PIN	DIAMETER»0.3125 INCHES NOMINAL§LENGTH»4.750 INCHES NOMINAL§POINT CROSS-SECTIONAL SHAPE»ROUND§POINT SIZE»0.125 INCHES§MATERIAL»METAL§ SHAPE»STRAIGHT§	C28	EA	1	
5180	211090574	TOOL KIT,AUTOMOTIVE ELECTRICAL	TOOL KIT,AUTOMOTIVE ELECTRICAL	L49-070- 403LC001	KT	1	KIT IGNITION, REF S51-028
5120	211096397	SOCKET WRENCH ATTACHMENT,SCREWDRIVER	FURNISHED ITEMS»REMOVABLE HEX TIP§WRENCHING SURFACE SIZE»0.375 INCHES NOMINAL§DRIVE SURFACE SIZE»0.375 INCHES NOMINAL§WRENCHING SURFACE SHAPE»HEXAGON§	FA12A	EA	1	SOCKET HEX. ALLEN 3/8"
4240	215520525	GOGGLES,INDUSTRIAL	GOGGLES,INDUSTRIAL	CDADIDPSNL1-5- 1	PR	1	GOGGLES, SAFETY
8020	215540904	BRUSH,PAINT	BRUSH,PAINT. 22 MM MIN STOCK W;OVAL;SASH TYPE;HOG BRISTLE;CHISELED EDGE;48 MM MIN STOCK EXPOSED LG;SPEC TYPE 1,SIZE 6	1150-6	EA	1	PAINT BRUSH
5210	216380011	CALIPER,INSIDE	CALIPER,INSIDE. FIRM JOINT;150 MM SIZE;POLISHED STEEL;RECTANGULAR LEGS SPEC TYPE 2,CLASS 1	27-6	EA	1	CALIPER INSIDE

GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5210	216380032	CALIPER,OUTSIDE	CALIPER,OUTSIDE. FIRM JOINT;150 MM SIZE;SPEC TYPE 2,CLASS 2	331-6	EA	1	CALIPER OUTSIDE
5120	216391360	WRENCH,BOX	WRENCH,BOX,DBL OFFSET DBL HEAD,0.6 25 AND0.688(5/8 AND 11/16) IN. NOM SIZES,12 PT,5.500(5 -1/2) IN. MIN LG O/A,CGSB 39-GP-11,TYPE 1,STYLE A,CL ASS 2,FINISH- BRI	278-G	EA	1	BOX WRENCH 11/16 & 5/8"
5120	216393034	PLIERS,SLIP JOINT	PLIERS,SLIP JOINT.ANGLE NOSE,MULTI PLE TONGUE AND GROOVE,5.000 IN. NOM SIZE,W/INSULATED HANDLES (BONDED VINYL COATED HANDLES ON LY,NOT SHOC KPROOF),FINISH- POLI	167	EA	1	
5110	216393118	PLIERS,DIAGONAL CUTTING	PLIERS,DIAGONAL CUTTING	P8397G	EA	1	PLIERS SIDE CUTTER
5120	216393154	SCREWDRIVER,SQUARE TIP	TIP TYPE»SQUARE§TIP SIZE DESIGNATION»1§HANDLE MATERIAL»PLASTIC§BLADE LENGTH»4.0INCHES NOMINAL§EXTERNAL SCREW GRIPPER»NOT PROVIDED§MAGNETIC TIP»NOT PROVIDED§SPE	C3001	EA	1	SCREWDRIVER ROBERTSON #1
5120	216393155	SCREWDRIVER,SQUARE TIP	TIP TYPE»SQUARE§TIP SIZE DESIGNATION»NO. 2§HANDLE MATERIAL»PLASTIC§BLADE LENGTH»4.000 INCHES NOMINAL§	C3002	EA	1	SCREWDRIVER ROBERTSON #2
5120	216393156	SCREWDRIVER,SQUARE TIP	TIP TYPE»SQUARE§TIP SIZE DESIGNATION»3§HANDLE MATERIAL»PLASTIC§BLADE LENGTH»4.0INCHES NOMINAL§EXTERNAL SCREW GRIPPER»NOT PROVIDED§MAGNETIC TIP»NOT PROVIDED§SPE	C3003	EA	1	SCREWDRIVER ROBERTSON #3
5120	216393250	SCREWDRIVER,FLAT TIP	MATERIAL»HANDLE PLASTIC§MATERIAL»HANDLEPLASTIC§BLADE LENGTH»101.6 MILLIMETERS NOMINAL OR 4.000 INCHES NOMINAL§BLADE LENGTH»101.6 MI LLIMETERS NOMINAL OR 4.000	SSD4	EA	1	SCREWDRIVER FLAT TIP 1/4 X 4" LG
5120	216393266	SCREWDRIVER,FLAT TIP	SCREWDRIVER,FLAT TIP	A616-12	EA	1	SCREWDRIVER FLAT TIP 3/8 X 12" RD LG
5120	216393283	SCREWDRIVER,FLAT TIP	SCREWDRIVER,FLAT TIP.FLARED,0.313( 5/16) IN. NOM TIP W,6.000 IN. NOM BLADE LG,W/PLASTIC H ANDLE W/WRENCH GRIP,CGSB 39-GP-17,TY PE 1,CLASS 3 ,DESIGN A,SHAPE B	06	EA	1	SCREWDRIVER FLAT TIP 5/16 X 6" LG
5110	216394272	FILE,HAND	PATTERN TYPE»AMERICAN§HEEL TO POINT DISTANCE»10.000 INCHES NOMINAL§COARSE CUT TYPE»DOUBLE CUT, SMOOTH§	39GP30	EA	1	FILE FLAT, 10 INCH
5110	216394357	FILE,HAND	FILE,HAND.AMERICAN PATTERN,THREE-S QUARE TYPE,6.000 IN. LG HEEL TO POINT,DOUBLECUT SMOOT H FACES, CGSB STD 39-GP-30B,TYPE H	39GP30	EA	1	FILE TRIANGULAR, 6 INCH
5110	216394387	FILE,HAND	FILE,HAND.AMERICAN PATTERN,RD TYPE . 8.000 IN. LG HEEL TO POINT 0.312 (5/16) IN. DIA, SINGLE CUT, BASTARD FACE,CGSB STD39-GP-3 0B,TYPE F	911704	EA	1	FILE ROUND, 8 INCH
5110	216395181	CHISEL,COLD,HAND	OVERALL LENGTH»5.0 INCHES NOMINAL§CUTTING EDGE WIDTH»0.375 INCHES NOMINAL§SPECIFICATION/STANDARD DATA»39-GP-43-TYPE4C GOVERNMENT SPECIFICATION§	C2A	EA	1	CHISEL COLD 3/8
5110	216395184	CHISEL,COLD,HAND	CHISEL,COLD,HAND.0.500 (1/2) IN. W CUT,5.250 (5-1/4) IN. LG O/A,CGSB STD 39-GP-43A,TYPE IV,CLASS A	C2	EA	1	CHISEL COLD 1/2
5110	216395191	CHISEL,COLD,HAND	CHISEL,COLD,HAND	C4	EA	1	CHISEL COLD 3/4

GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5110	216395214	CHISEL,CAPE,HAND	CHISEL,CAPE,HAND.0.250 (1/4) IN. W CUT,CGSB STD 39-GP-43A,TYPE 1	C12	EA	1	CHISEL CAPE 1/4
5110	216395217	CHISEL,CAPE,HAND	CUTTING EDGE WIDTH»0.0 INCHES NOMINAL\$SPECIFICATION/STANDARD DATA»39-GP-43-TYPE1C GOVERNMENT SPECIFICATION\$	22706	EA	1	CHISEL CAPE 1/2
5110	216395240	CHISEL,DIAMOND POINT,HAND	CHISEL,DIAMOND POINT,HAND.0.125 (1 /8) IN. W CUT,CGSB STD 39-GP-43A,TYPE II	PPC19	EA	1	CHISEL DIAMOND 1/8
5110	216395244	CHISEL,DIAMOND POINT,HAND	CHISEL,DIAMOND POINT,HAND.0.375 (3 /8) IN. W CUT,CGSB STD 39-GP-43A,TPPE II	1178	EA	1	CHISEL DIAMOND 3/8
5120	216395440	PUNCH,DRIVE PIN	TAPER LENGTH»2.75 INCHES NOMINAL\$SPECIAL FEATURES»5.5 IN. NOM L O/A;0/375 IN. NOM DIA STOCK\$DIAMETER»0.125 INCHES NOMINAL\$POINT CROSS-SECTIONAL SHAPE»ROUND\$SHAP	C23	EA	1	
5120	216395444	PUNCH,DRIVE PIN	PUNCH,DRIVE PIN. 0.250(1/4) IN. NO M DIA POINT,0.500(1/2) IN. NOM DIA STOCK,TAPERED,2.500 (2-1/2) MIN TO 3.500(3-1/2) IN. MAX TAPER LG,5.500(5-1 /2) IN. NOM LG	PPC208	EA	1	PUNCH DRV PIN TAPER 1/4
5120	216395447	PUNCH,DRIVE PIN	PUNCH,DRIVE PIN. 0.375(3/8) IN. NO M DIA POINT,0.625(5/8) IN. MIN STOCK DIA,TAPERED,2.500 (2-1/2) MIN TO 3.500(3-1/2) IN. MAX TAPER LG,5.500(5-1 /2) IN. MIN LG	39GP44	EA	1	PUNCH DRV PIN TAPER 3/8
5120	216395477	PUNCH,DRIVE PIN	POINT LENGTH»2.0 INCHES NOMINAL\$DIAMETER»0.375 INCHES NOMINAL\$LENGTH»7.0 INCHESNOMINAL\$POINT CROSS-SECTIONAL SHAPE»ROUND\$SPECIAL FEATURES»0.625 IN. DIA STOCK;\$	39GP44	EA	1	PUNCH DRIVE PIN 3/8
5120	216395482	PUNCH,CENTER,SOLID	PUNCH,CENTER,SOLID. 1/16 IN.DIA AT TOP OF TAPERED POINT, 3/16 IN NOM DIA STOCK,2-7/8 IN. NOM O/A LG,CGSB 39-GP-46,TYPE1,CLASS A. 1 ,CLASS A	117AA	EA	1	PUNCH CENTER 1/16
5120	216395488	PUNCH,CENTER,SOLID	0.188 (3/16)IN . DIA AT TOP OF TAPERED POINT,0.500 (1/2) IN. NOM DIA OF STOCK,4.000 IN. MIN LG O/A,CGSB 39-GP-46,TYPE 1,CLASS A	264F	EA	1	3/16 IN DIA TOP OF TAPERED PT SUB FOR P/N C5747352A
5110	216396101	BLADE,HAND HACKSAW	BLADE,HAND HACKSAW.ALL HARD OR FLE XIBLE TYPE,HSS,12.000 IN. NOM LG,18 TPI,0.025 IN. THK, 46- GP-1,TYPE 1,GRADE A,CLASS 2	H1218	EA	3	BLADE HACKSAW 18 TPI/12"
5110	216396102	BLADE,HAND HACKSAW	BLADE LENGTH»12.000 INCHES NOMINAL\$BLADE THICKNESS»0.025 INCHES NOMINAL\$TEETH QUANTITY PER UNIT OF MEASURE»24 PER INCH\$BLADE MATERIAL»STEEL, HIGH SPEED\$	GGG-B-451	EA	3	BLADE HACKSAW 24 TPI/12"
5120	216396382	KNIFE,PUTTY	KNIFE,PUTTY.STIFF BLADE,1.250(1-1/ 4) IN.NOM BLADE W,4.000 IN. NOM BLADE LG,PLASTIC OR HA RDWOOD HANDLE OR ANY NONMETALLIC MATE RIAL SUITABL E,FED GGG-K-481, TY	P1 1-4S	EA	1	PUTTY KNIFE
5120	217980666	WRENCH,ADJUSTABLE	MATERIAL»OVERALL STEEL\$OVERALL LENGTH»200.0 MILLIMETERS NOMINAL\$HEAD THICKNESS»14.0 MILLIMETERS NOMINAL\$WRENCHING SURFACE SHAPE»SINGLE END INTERNAL OVAL\$SPECIAL	BW8	EA	1	ADJUSTABLE WRENCH 8" LG
5120	218408211	SCREWDRIVER,FLAT TIP	SCREWDRIVER,FLAT TIP.FLARED,0.250 (1/4)IN. TIP W,10.000 IN. BLADE LG,PLASTIC HANDLE,W/W RENCH GRIP	C410	EA	1	SCREWDRIVER FLAT TIP 1/4 X 10" SQ LG
5110	218435018	FRAME,HAND HACKSAW	SPECIAL FEATURES»ADJUSTABLE LENG TH, 10.000 OR 12.000 IN. BLADE CAPACITY,3.750 TO 4.0 00 IN. DEPTH OF THROAT,ROUND,OVALOR RECTANGULAR SHAPED FRAME,CLOSED GRIP,	MASTER CUT III	EA	1	FRAME HACKSAW

GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5120	218513647	WRENCH,BOX AND OPEN END,COMBINATION	MATERIAL»OVERALL STEEL\$OVERALL LENGTH»3.25 INCHES NOMINAL\$HEAD ANGLE»15.0 DEGREES NOMINAL\$WRENCHING END OFFSET ANGLE»15.0 DEGREES NOMINAL\$WRENCHING SURFACE SIZE	MC607	EA	1	COMBINATION WRENCH 7 MM
5120	218577933	SCREWDRIVER,FLAT TIP	MATERIAL»HANDLE PLASTIC\$MATERIAL»HANDLEPLASTIC\$BLADE LENGTH»304.8 MILLIMETERS NOMINAL OR 12.000 INCHES NOMINAL\$BLADE LENGTH»304.8 MILLIMETERS NOMINAL OR 12.000	C1212	EA	1	SCREWDRIVER FLAT TIP 3/8 X 12" SQ LG
5120	218579717	WRENCH,PLIER	WRENCH,PLIER,STR JAW,10.000 IN. NO M LG, CGSB 39-GP-16B,TYPE R,STYLE 1,AS MOD BY NOM LG,F INISH- POLISHED ALL OVER OR CHROME PL ATING OR NIC KEL PLATING AS PER	GA28	EA	1	PLIERS VICE GRIP
5120	218590170	PUNCH,DRIVE PIN	PUNCH,DRIVE PIN. STR TYPE,0.125(1/ 8)IN. NOM DIA POINT,0.281(9/32)IN. MIN DIA STOCK,0.750 (3/4)IN. MIN LG POINT,3.750(3-3/4)IN. MIN LG O/A,CGSB 39-GP-46,TYPE 2,	C790	EA	1	PUNCH DRIVE PIN 1/8
5120	218590342	UNIVERSAL JOINT,SOCKET WRENCH ATTACHMENT	MATERIAL»OVERALL STEEL\$SURFACE TREATMENT»OVERALL CHROMIUM AND OVERALL NICKEL\$OVERALL LENGTH»1.93875 INCHES NOMINAL\$DRIVE SURFACE SIZ E»BOTH ENDS 0.375 INCHES NO	FU8	EA	1	SOCKET ADAPTOR U-JOINT
5120	218590351	SCREWDRIVER,OFFSET	OVERALL LENGTH»5.000 INCHES NOMINAL\$TIPTYPE»FLAT TIP, PARALLEL TO LONGITUDINALAXIS OF BODY\$TIP TYPE»FLAT TIP, 90 DEG ANGLE TO LONG ITUDINAL AXIS OF BODY\$SPECI	PWA1058	EA	1	SCREWDRIVER FLAT TIP OFFSET
5120	218592739	WRENCH,BOX	MATERIAL»OVERALL STEEL\$SURFACE TREATMENT»OVERALL CHROMIUM AND OVERALL NICKEL\$OVERALL LENGTH»12.0 INCHES MINIMUM\$LARGE END HEAD THICK NESS»0.594 INCHES MAXIMUM\$S	K8731B	EA	1	BOX WRENCH 13/16 & 7/8"
5120	218680720	SOCKET SET,SOCKET WRENCH	SOCKET SET,SOCKET WRENCH. 10 MM OR 0.375(3/8) IN. NOM INT SQ DR,12 PT,REG LG,METRIC,STEE L,CHROMIUM- NICKEL PLATED FINISH,13 ITEMS,C /O 12 SOCKE TS SIZES 8 TO 1	SM81	SE	1	SET, SOCKET 3/8" DRV, METRIC, 12 ITEMS, S51-606
5120	218680977	BRUSH,BATTERY TERMINAL	BRUSH,BATTERY TERMINAL.DBL END,FEM END FOR CLEANING TERMINALS,MALE END FOR CLEANING CLA MPS,W/RED PLASTIC CAP	BTC2	EA	1	BRUSH WIRE BATTERY TERMINAL
5120	218681282	WRENCH,OPEN END	MATERIAL»OVERALL STEEL\$OVERALL LENGTH»80.0 MILLIMETERS NOMINAL\$LARGE END HEAD THICKNESS»2.4 MILLIMETERS NOMINAL\$SMALL END HEAD THICK NESS»2.4 MILLIMETERS NOMINA	1931M	EA	1	WRENCH OPEN BOTH END INTERNAL OVAL 5 MM
5120	218701820	WRENCH,BOX AND OPEN END,COMBINATION	WRENCH,BOX AND OPEN END,COMBINATIO N. OFFSET,36 MM NOM SIZE BOTH ENDS,12 PT BOXEND ON 15 DEG ANGLE OFFSET,15 DEG ANGLEOF OP EN END OPNG ,492 MM NOM LG O/A	MC36	EA	1	COMBINATION WRENCH 36 MM
5140	218720337	TOOL BOX,PORTABLE	OVERALL LENGTH»26.0 INCHES NOMINAL\$OVERALL WIDTH»8.5 INCHES NOMINAL\$OVERALL HEIGHT»9.5 INCHES NOMINAL\$TRAY QUANTITY»9\$REMOVABLE TRAY»PROVIDED\$TOP TILL»NOT PROVI	92-525	EA	1	TOOLBOX RED, 26" X 9.1/2" X 8.1/2" AND REMOVABLE TRAY
5120	218720501	WRENCH SET,COMBINATION BOX AND OPEN END	WRENCH SET,COMBINATION BOX AND OPE N END.METRIC,14 ITEMS,SIZES 8 TO 20 MM INCL,W/ITEMS PE R CHECK LISTL-49-070-476/LC-000 (REF S51-2 68)	L-49-070-476/LC-000	SE	1	SET, COMBINATION WRENCH, 8 TO 20 MM, S51-268
5120	218721521	HANDLE,SOCKET WRENCH	HANDLE,SOCKET WRENCH	T42	EA	1	HAND DRIVER 3/8", 6.1/8" IN LENGTH WITH PLASTIC HANDLE
5120	218741758	BIT SET,SCREWDRIVER	BIT SET,SCREWDRIVER. HEX SOCKET 0.500 (1/2) IN. INT SQ DR,SOCKET SIZES:6,8, 10,12,14,17 AND 19 MM	307SAM Y	SE	1	SET, SOCKET 1/2" DRV, HEX BIT METRIC, 7 ITEMS, S51-607
5120	218741760	SOCKET SET,SOCKET WRENCH	SOCKET SET,SOCKET WRENCH.6.3 MM OR 0.250(1/4) IN. NOM INT SQ DR,HEX,REG LG,METRIC,STEEL, CHROMIUM- NICKEL PLATED FINISH,12 ITEMS,C /O 11 SOCKE TS SIZES 4 TO 14	M604T0M614	SE	1	SET, SOCKET 1/4" DRV, METRIC, 11 ITEMS, S51-601

GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5120	218741762	SOCKET SET, SOCKET WRENCH	SOCKET SET, SOCKET WRENCH. 10 MM OR 0.375(3/8) IN. NOM INT SQ DR, HEX, REG LG, UNIVERSAL JOINT TYPE, METRIC, STEEL, CHROMIUM- NICKEL PLATED FINIS H, 11 ITEMS, C/O 11	39-GP-12M	SE	1	SET, SOCKET U-JOINT 3/8" DRV, METRIC, 13 ITEMS, S51-599
5120	218741763	SOCKET SET, SOCKET WRENCH	FURNISHED ITEMS»12.5 MM OR 0.500 IN NOMSQ DR; 12 PT, DEEP LG, METRIC, STEEL, CHROMIUM-NICKEL PLATED FINISH, 6 ITEMS, C/O 6 SOCKETS SIZES 14, 17, 19, 20.6, 22 A	306SM	SE	1	SET, SOCKET DEEP 1/2" DRV, METRIC, 6 ITEMS, S51-602
5120	218741764	SOCKET SET, SOCKET WRENCH	COMPONENT QUANTITY»23NONSUPPLY ITEMS AND QUANTITIES»SNAP-ON, SWM101, SOCKET 1; SNAP-ON, SWM111, SOCKET 1; SNAP-ON, SWM121, SOCKET 1; SNAP-ON, SWM131, SOCKET 1;	SM63	SE	1	SET, SOCKET SHORT 1/2" DRV, METRIC, 23 ITEMS, S51-606
5210	218742435	TAPE, MEASURING	MATERIAL»STEEL»SURFACE TREATMENT»PAINT»DESIGN TYPE»GENERAL PURPOSE DISTANCE MEASURING»STANDARD GRADUATION UNIT»MM,METERS,IN. AND FEET»MEASURING CAPACITY»2 METER	Y922CME	EA	1	MEASURING TAPE 6 FOOT
5120	218782637	WRENCH, BOX AND OPEN END, COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM AND OVERALL COPPER»OVERALL LENGTH»336.0 MILLIMETERS NOMINAL»HEAD ANGLE»15.0 DEGREES NOMINAL»WRENCHING	MC26	EA	1	COMBINATION WRENCH 26 MM
5120	218782640	WRENCH, BOX AND OPEN END, COMBINATION	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL CHROMIUM AND OVERALL COPPER»OVERALL LENGTH»294.0 MILLIMETERS NOMINAL»HEAD ANGLE»15.0 DEGREES NOMINAL»WRENCHING	MC22	EA	1	COMBINATION WRENCH 22 MM
5130	218782656	SOCKET, SOCKET WRENCH	MATERIAL»OVERALL STEEL»SURFACE TREATMENT»OVERALL ANY ACCEPTABLE»OVERALL LENGTH»55.0 MILLIMETERS NOMINAL»WRENCHING END OUTSIDE DIAMETER»53.5 MILLIMETERS NOMINAL»	IMM362	EA	1	SOCKET SHORT 36 MM IN 3/4" DRV
5180	218782684	TOOL KIT, SUPPLEMENTAL, METRIC SIZES	TOOL KIT, SUPPLEMENTAL, METRIC SIZES .24 ITEMS, WITH ITEMS AS PER CHECK LIST L49-071-410/L C-008	L49-071-410LC008	KT	1	KIT METRIC TOOLS, REF S51-302
5210	218784379	GAGE, THICKNESS	GAGE, THICKNESS. 13 BLADES; TAPERED; 1 BLADE GROUP; 100 MM NOM BLADE LG; 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80 0.90 AND 1.00 MM THICKNESS	FG-21	EA	1	GAGE 13 BLADES, 0.05 MM TO 1.00 MM
5210	218830032	GAGE, THICKNESS	BLADE GROUP QUANTITY»1»MEASUREMENT SYSTEM»ENGLISH»BLADE SHAPE»STRAIGHT»BLADE QUANTITY»6»BLADE LENGTH»3.313 INCHES NOMINAL»BLADE TIP WIDTH»0.5 INCHES NOMINAL»BLA	FB305	EA	1	
5210	218830802	GAGE, THICKNESS	GAGE, THICKNESS. 9 BLADES; STRAIGHT; 1 BLADE GROUP; 0.06, 0.10, 0.15, 0.20, 0.30, 0.35, 0.40, 0.50 AND 0.60 MM THICKNESS; W/BLADE LOCK	FG28	EA	1	GAGE 09 BLADES, 0.06 MM TO 0.60 MM
5120	218954634	WRENCH, BOX AND OPEN END, COMBINATION	OVERALL LENGTH»337.0 MILLIMETERS MINIMUM»WRENCHING SURFACE SIZE»BOTH ENDS 24.0 MILLIMETERS NOMINAL»HEAD ANGLE»15.0 DEGREES NOMINAL»WRENCHING SURFACE SHAPE»FIRST	MC24	EA	1	COMBINATION WRENCH 24 MM
5140	219033049	CASE, SOCKET WRENCH SET	CASE, SOCKET WRENCH SET. 7-3/16 IN. LG, 3-3/8 IN. W, 1-3/8 IN. H, 2 COMPART, SPRING CATCH, STEEL, ENAM FIN	FMC-1	EA	1	
5140	219061563	TOOL BOX, PORTABLE	OVERALL LENGTH»26.094 INCHES NOMINAL»OVERALL WIDTH»12.063 INCHES NOMINAL»OVERALL HEIGHT»14.375 INCHES NOMINAL»DRAWER QUANTITY»9»COMPARTMENT»NOT INCLUDED»TRAY QU	U1658703	EA	1	TOOLBOX 9 DRAWERS GREEN
5140	219061564	TOOL BOX, PORTABLE	OVERALL LENGTH»26.375 INCHES NOMINAL»OVERALL WIDTH»14.75 INCHES NOMINAL»OVERALL HEIGHT»8.562 INCHES NOMINAL»DRAWER QUANTITY»3»STOP TILL»NOT PROVIDED»PANEL FRONT»	0078846-1	EA	1	TOOLBOX 3 DRAWERS GREEN
5140	219061565	TRAY, TOTE, MECHANIC'S	OVERALL LENGTH»20.25 INCHES NOMINAL»OVERALL WIDTH»8.0 INCHES NOMINAL»OVERALL HEIGHT»3.25 INCHES NOMINAL»HANDLE QUANTITY»1»HANDLE LOCATION»TOP»SPECIAL FEATURES»H	0078847-1	EA	1	CARRYING TRAY GREEN

GC	STK_CDE	ITEM_NAME	DESCRIPTION	PART_NO	UOI	QTY	REMARKS
5120	219101135	ADAPTER, SOCKET WRENCH	MATERIAL»OVERALL STEEL§OVERALL LENGTH»1.125 INCHES NOMINAL§OUTSIDE DIAMETER»1.375 INCHES NOMINAL§DRIVE SURFACE SIZE»FIRST END 0.5 INCHES NOMINAL§DRIVE SURFACE S	GLA62	EA	1	SOCKET REDUCER 3/4" DRV TO 1/2" DRV
5120	219210189	WRENCH SET, OPEN END, FIXED	WRENCH SET, OPEN END, FIXED	ME12A	EA	1	SET, OPEN WRENCH, 13 ITEMS, INCLUDES ORGANIZER



# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

REQUEST FOR PROPOSAL

W8476-06-MSMP/L

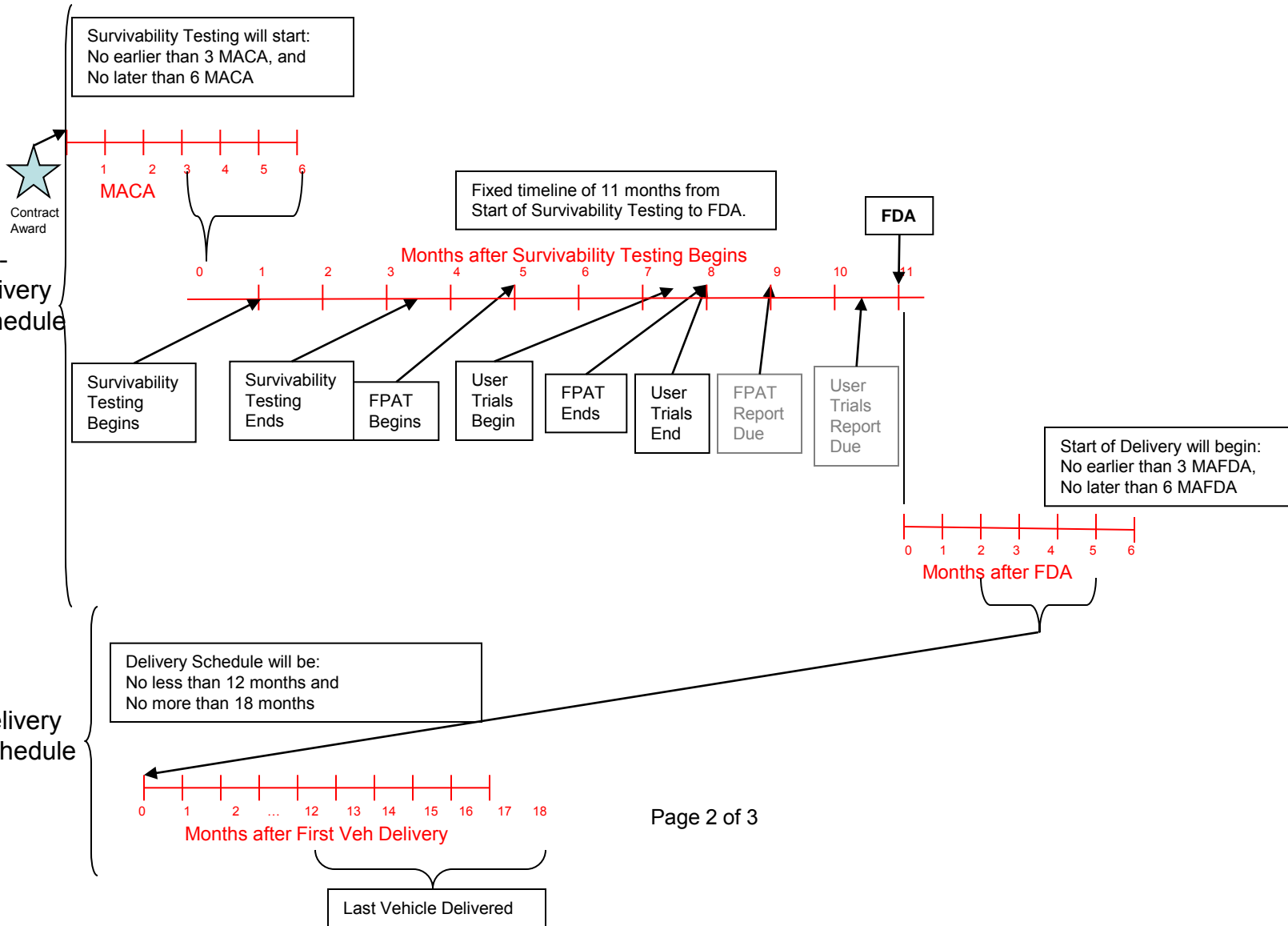
### **Part 7 - Resulting Contract - Acquisition**

ANNEX B - STATEMENT OF WORK

APPENDIX BJ – MSVS SMP SCHEDULE CONSTRAINTS

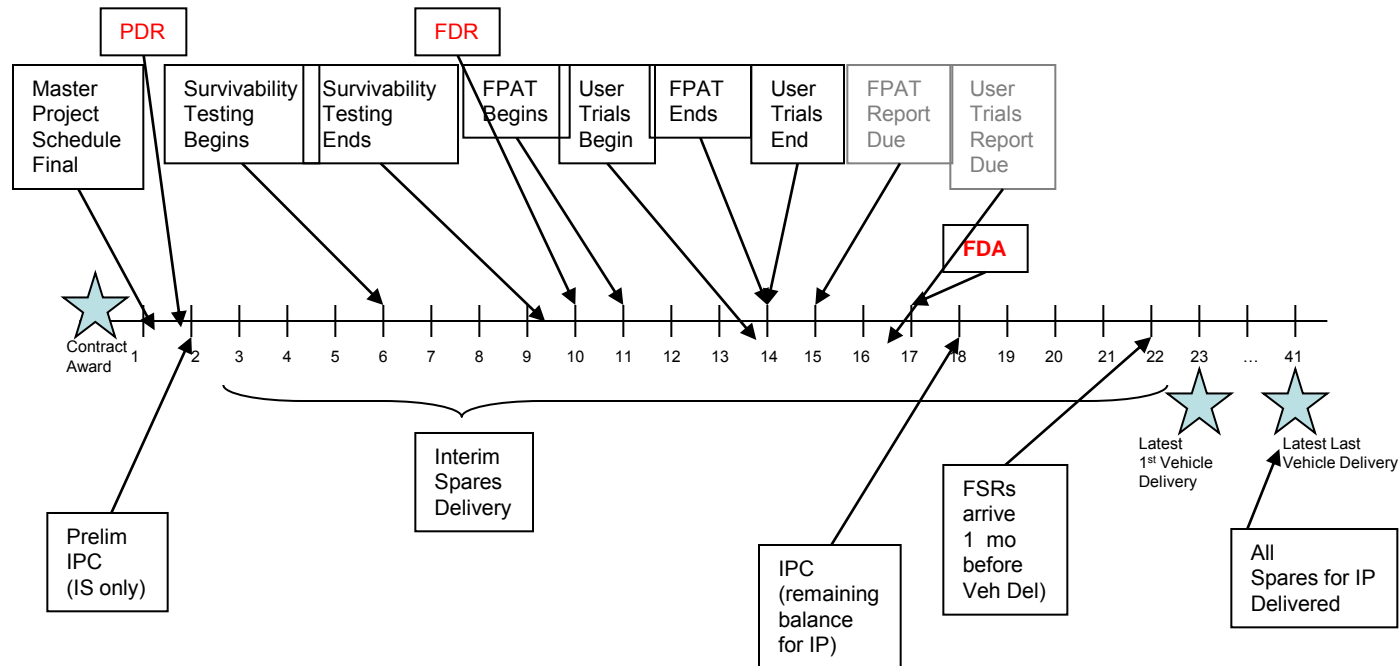
# SMP Schedule Constraints

Request For Proposal W8476-06-MSMP/L



# Example Schedule Including Initial Provisioning Activities

For example, should the Contractor have proposed:  
Survivability Testing start at 6 MACA, First Veh Delivery at 6 MAFDA, and 18 months for Delivery,  
the proposed schedule would resemble :



## **Medium Support Vehicle System (MSVS)**

### **Standard Military Pattern (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 7 -Resulting Contract - Acquisition  
Annex C  
Price and Delivery

## **1 Purpose**

This Annex establishes the Deliverable End Items, quantities, unit prices, delivery dates, destination, options, and rates for additional work.

## **2 Table of Contents**

**Table 1 - Vehicles and Related Equipment**

**Table 1-1 - Vehicles and Related Equipment - Additional**

**Table 2 - Vehicles and Related Equipment - Options**

**Table 2-1 - Vehicles and Related Equipment - Additional - Options**

**Table 3 - Not Used**

**Table 4 - ILS Data and Deliverables**

**Table 5 - ILS Data and Deliverables - OPTIONS**

**Table 6 - Labour, Overhead and Profit**

**Table 6A - Labour Category Descriptions**

**Table 7 - Task Authorization**

**Table 8 - Foreign Exchange Rate Adjustment**

Highlighted tables will be completed by Canada using the information provided in the bid (Volume 4) for inclusion into the Resulting Contract.

**Table 1 - Vehicles and Related Equipment**

Contract Line Item Number (CLIN)	Deliverable End Item	Source	Quantity *	Unit of Issue	Unit Price (DDP)	Extended Price	Destination	
1010	Configuration "A" - Cargo							
1011	Cargo	Appendix BA-7		EA	\$ -	\$ -	LFAA EFCC	
1012							SQFT EFCC	
1013							LFCA EFCC	
1014							LFWA EFCC	
1015							25 CFSD EFCC	
1020	Configuration "B" - Cargo with MHC							
1021	Cargo with MHC	Appendix BA-9	8	EA	\$ -	\$ -	LFAA EFCC	
1022			12				SQFT EFCC	
1023			11				LFCA EFCC	
1024			12				LFWA EFCC	
1025			2				25 CFSD EFCC	
1040	Configuration	This Table will be completed by Canada using the information provided in the bid (Attachment 3 to Part 4)						
1041	Load Handling							
1042								
1043								
1044								
1045								
1050	Configuration							
1051	Cargo, MHC variant	Appendix BA-14		EA	\$ -	\$ -		
1052								
1053			35				LFCA EFCC	
1054			46				LFWA EFCC	
1055			18				25 CFSD EFCC	
2010	Armour Protection System	Appendix BA-6	150	EA	\$ -	\$ -	25 CFSD EFCC	
2011	30 Trailer run flat insert	Appendix BA-6	1	LOT	\$ -	\$ -	25 CFSD EFCC	
3011	Trailer	Appendix BA-11		EA	\$ -	\$ -	LFAA EFCC	
3012							SQFT EFCC	
3013							LFCA EFCC	
3014							LFWA EFCC	
3015							25 CFSD EFCC	
4011	APS Engineered vehicle	Annex B para 4.3.3.2.3.1	2	EA	\$ -	\$ -	DRDC Valcartier	

**Table 1 Total \$ -**

NOTE:

\* - Quantities not filled here will be filled by Canada using the quantities from the selected scenario IAW Attachment 3 of Part 4

**Table 2 - Vehicles and Related Equipment - Options**

				Price (DDP)				
Contract Line Item Number (CLIN)	Deliverable End Item	Source	Unit of Issue	up to 24 MACA	25 MACA to 36 MACA	37 MACA to 48 MACA	49 MACA to 60 MACA	Destination
1010	Configuration "A" - Cargo							
1011	Cargo	Appendix BA-7	EA	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1012								
1013								
1014								
1015								
1020	Configuration "B" - Cargo with MHC							
1021	Cargo with MHC	Appendix BA-9	EA	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1022								
1023								
1024								
1025								
1040	Configuration "D" - Load Handling System							
1041	Load Handling System	Appendix BA-8	EA	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1042								
1043								
1044								
1045								
1050	Configuration "E" - Cargo, MRT variant							
1051	Cargo, MRT variant	Appendix BA-14	EA	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1052								
1053								
1054								
1055								
2010	Armour Protection System	Appendix BA-6	EA	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
2011	Trailer run flat insert	Appendix BA-6	EA	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
3011	Trailer	Appendix BA-11	EA	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
3012								
3013								
3014								
3015								
4010A	APS Test coupons Opaque Armour	Annex B para 4.3.3.1.2 and 4.3.3.1.4	EA	\$ -	\$ -	\$ -	\$ -	DRDC Valcartier, QC
4010B	APS Test coupons Transparent Armour	Annex B para 4.3.3.1.2 and 4.3.3.1.4	EA	\$ -	\$ -	\$ -	\$ -	DRDC Valcartier, QC

MACA: Months After Contract Award

**Table 1-1 - Vehicles and Related Equipment - Additional**

Contract Line Item Number (CLIN)	Deliverable End Item	Source	Quantity	Unit of Issue	Unit Price (DDP)	Extended Price	Destination
<b>1030-1</b>	<b>Configuration "C" - Gun Tractor</b>						
1031-1	Gun tractor	Appendix BA-5	4	EA	\$ -	\$ -	LFAA EFCC
1032-1			8				SQFT EFCC
1033-1			9				LFCA EFCC
1034-1			8				LFWA EFCC
1035-1			8				25 CFSD EFCC

**Table 1-1 Total**

\$

-



**Table 2-1 - Vehicles and Related Equipment - Additional - Options**

Contract Line Item Number (CLIN)	Deliverable End Item	Source	Unit of Issue	up to 24 MACA	25 MACA to 36 MACA	37 MACA to 48 MACA	49 MACA to 60 MACA	Destination
1030-1	<b>Configuration "C" - Gun Tractor</b>							
1031-1	<b>Gun tractor</b>	Appendix BA-5	EA	\$ -	\$ -	\$ -	\$ -	25 CFSD EFCC
1032-1								
1033-1								
1034-1								
1035-1								

**Table 5 - ILS Data and Deliverables - OPTIONS**

Contract Line Item Number (CLIN)	Deliverable End Item	Quantity	Unit of Issue	Unit Price	Extended Price	Destination
<b>5000</b>	<b>Training Deliverables</b>					
5010	Familiarization Training Course	2	EA	\$ -	\$ -	Contractor's Facility
<b>5030</b>	<b>ICT Operator Instructor Training Courses</b>					
5031	ICT Operator @ LFAA	This Table will be completed by Canada using the information provided in the bid (Attachment 4 to Part 4)				CFB Gagetown
5032	ICT Operator @ SQFT					CFB Valcartier
5033	ICT Operator @ LFCA					CFB Petawawa
5034	ICT Operator @ LFWA					CFB Edmonton
<b>5040</b>	<b>ICT Technician Instructor T</b>					
5041	ICT Vehicle Technician Instructor Training Course	6	EA	\$ -	\$ -	CFB Borden

**Table 4 - ILS Data and Deliverables**

Contract Line Item Number (CLIN)	Deliverable End Item	Quantity of serials	Unit of Issue	Unit Price	Extended Price	Destination
<b>5000</b>	<b>Training Deliverables</b>					
5010	Familiarization Training Course	3	EA	\$ -	\$ -	Contractor's Facility
<b>5020</b>	<b>Initial Cadre Training (ICT) Pilot Courses</b>					
5021	Operator ICT Pilot Instructor Course	1	EA	\$ -	\$ -	Contractor's Facility
5022	Vehicle Technician ICT Pilot Instructor Course	1	EA	\$ -	\$ -	Contractor's Facility
5023	Material Technician ICT Pilot Instructor Course	1	EA	\$ -	\$ -	Contractor's Facility
<b>5030</b>	<b>ICT Operator Instructor Training Courses</b>					
5031	ICT Operator	This Table will be completed by Canada using the information provided in the bid (Attachment 4 to Part 4)				Gagetown
5032	ICT Operator					Valcartier
5033	ICT Operator					Petawawa
5034	ICT Operator					Edmonton
5035	ICT Operator					D, Montreal
<b>5040</b>	<b>ICT Technician Instructor Training Courses</b>					
5041	ICT Vehicle Technician Instructor Training Course	7	EA	\$ -	\$ -	CFB Borden
5042	ICT Material Technician Instructor Training Course	1	EA	\$ -	\$ -	CFB Borden

**Table 4 Total** 0.00

The following rates and guidelines will be used in the determination of the price for changes to the scope or additional work subject to approval.

### **1. Hourly Rates**

Firm hourly rates excluding overhead and profit, as follows:

Labour Category	Contract Award to 12 MACA	13 MACA to 24 MACA	25 MACA to 36 MACA	37 MACA to 48 MACA	49 MACA to 60 MACA
Engineer					
Technician	This Table will be completed by Canada using the information provided in the bid (Attachment 3 to Part 4)				
Technologist					

**NOTE:** Other labour category rates will not be accepted.

### **1.1 Overtime**

**Table 6 - Labour, Overhead and Profit**

The Contractor must not perform any overtime under the Contract unless authorized in advance and in writing by the Contracting Authority. Any request for payment must be accompanied by a copy of the overtime authorization and a report containing the details of the overtime performed pursuant to the written authorization. Payment for authorized overtime will be calculated as follows:

- a) The Contractor will be paid the Hourly Rates plus authorized overtime hours paid at premium Rate of 1.5 time of the appropriate Labour Category under Table 1 - Labour, Overhead and Profit.
- b) The premium will be calculated by taking the Hourly Rates time 1.5, plus Overhead Rate, plus Profit Rate. These rates will remain firm for the duration of the Contract, including all amendments and are subject to audit if considered necessary by Canada.

**2. Overhead**

The following Overhead rate will be applied to direct and indirect costs, excluding profit for the listed above labour categories:

	From Contract Award to 60 MACA
Overhead rate	

**3. Profit**

The following profit rate will be applied to labour, Overhead and direct costs:

	From Contract Award to 60 MACA
Profit Rate	

**4. Material**

For all material the Contractor agrees to be paid the the Laid Down Cost, claimable upon delivery and acceptance by Canada, without any allowance for mark-up.

**5. Subcontracted Work**

For all authorized subcontract work performed under this Contract, the Contractor agrees to be paid Laid Down Cost, claimable upon delivery and acceptance by the Contractor without any allowance for mark-up.

It is the Prime Contractor's responsibility to approve all work packages assigned to subcontractors. It is the Prime Contractor's responsibility to conduct due diligence in the acquisition of equipment and services through subcontractors to assure the most cost-effective solution while satisfying the Work.

#### **6. Interpretation**

*Laid Down Cost:* The cost incurred by a supplier to acquire a specific product or service for resale to the government. This includes the supplier's invoice price (less trade discounts), plus any applicable charges for incoming transportation, foreign exchange, customs duty and brokerage, but excludes the Goods and Services Tax and the Harmonized Sales Tax.

*Mark-up:* 1. Defence Production Act. The amount added to cost in determining the selling price to cover overhead and profit.  
2. The difference between the contractor's laid-down cost for a product and its resale price to Canada, Goods and Services Tax and/or the Harmonized Sales Tax excluded. Mark-up includes applicable purchasing expense, internal handling and general and administrative expenses, plus profit.  
3. The amount added to the cost of merchandise to arrive at the price at which it will be offered for sale. This refers to an addition to a previously established selling price of goods for sale.

*Fixed time rate:* A method of pricing in which the amount payable is determined in accordance with the combined cost of labour, overhead and profit, as expressed by a fixed amount by time period.

**Table 6A - Labour Category Descriptions**

**1 Engineering Services Category**

The Contractor must provide engineering personnel to provide work on this project who are well qualified and experienced.

**Required Services**

The required services encompass all electronic, electrical, optical, mechanical, structural and materiel systems which may include but not necessarily limited to the following:

- a. Automotive systems design and engineering; system planning and architecture development design, automotive system integration;
- b. Design and engineering of automotive components and systems; hydraulic systems, electrical systems;
- c. Conducting engineering and technical studies, functional analysis, option analysis, statistical analysis, feasibility studies, cost estimates, cost benefit analysis; analysis of system deficiencies, engineering trade-off and technical risk analysis, recommendation of cost effective solutions, development of mitigation strategies and implementing automotive engineering solutions as needed.
- d. Preparation, review and evaluation of engineering documentation, including the automotive equipment specifications, drawings, System Engineering Management Plan (SEMP), engineering and technical plans and studies, functional specifications and statements of work;
- e. Developing standards and codes for efficient vehicle production, tailoring of military or commercial standards, specifications or practices for incorporation into the MSVS;
- f. Determining, developing and introducing new techniques and implementing procedures and systems to reduce automotive production and service costs;
- g. Ensuring governmental regulations are followed during all steps of production and service;
- h. Human Factors Engineering (HFE), emissions, noise, vibration, research or control;
- i. Vehicle dynamics, operations, payload control, safety engineering and security;
- j. Automotive test engineering, modelling and simulation, prototype design and building, preparing test plans and procedures;
- k. Preparing configuration management plans; implementing configuration management and quality control techniques and procedures;
- l. Technical evaluation of proposals;
- m. Maintaining knowledge and research of automotive programs and systems of North America, European Union and other international commercial and government automotive programs/systems; and
- n. Attendance "as required" at design, technical and management reviews or meetings in support of MSVS in order to monitor and advise on progress and potential problems.

**2 Technologist Services Category**

The Contractor must provide technological personnel to work on this project who are well qualified and experienced.

**Required Services**

The required services may include, but are not necessarily limited to the following:

- a. CAD/CAM design;
- b. Automotive equipment design processes and systems;
- c. preparing specifications, technical drawings and instructions;
- d. specifying tests;
- e. developing prototypes;
- f. resolving production or construction problems;
- g. managing projects; and
- h. supervising, training and planning.

**Academic Qualifications**

All Contractor technological resources must have a detailed understanding of automotive field and an educational background sufficient to fully carry out the technical and managerial aspects of the work. This background is normally achieved by:

- a. Graduating from a three year post-secondary technologist program in Ontario or other provincial equivalents, consisting of core mathematics, engineering and science fundamentals including courses in computer programming, technical writing, design, analysis and management principles and complemented by hands-on experience gained in labs and project placements; and
- b. Supplemented by maintaining membership(s) in recognized and reputable national, provincial, state or international professional organizations and relevant certifications, e.g. C.E.T. from OACETT or other equivalent.

**3 Technician Services Category**

The Contractor must provide technical personnel to provide work on this project who are well qualified and experienced.

**Required Services**

The required services may include, but are not necessarily limited to the following:

- a. assisting in designing equipment, processes and systems;
- b. compiling data and reports;
- c. inspecting projects, conducting test set up, testing and surveying, and preparing estimates;
- d. troubleshooting, servicing, calibrating and supervising equipment repairs;
- e. providing support for quality assurance, production control and maintenance;
- f. conducting repairs and modifications, resolving problems;
- g. providing support and conducting experiments in laboratories, prototyping; and
- h. supervising and training other personnel.

**Academic Qualifications**

All Contractor Technician resources must have a detailed understanding of automotive field and an educational background sufficient to fully carry out the technical and managerial aspects of the work. This background is normally achieved by:

- a. Graduating from a two year technician post-secondary program in Ontario or other provincial equivalents consisting of core mathematics, engineering and science fundamentals including courses in computer applications and technical writing and complemented by hands-on experience gained in labs and projects; and
- b. Supplemented by maintaining membership(s) in recognized and reputable national, provincial, state or international professional organizations and relevant certifications, e.g. C.Tech. from OACETT or other equivalent.



Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract - Acquisition  
Price and Delivery  
Task Authorization

Table 7 to  
Annex C to  
Part 7 to  
Request For Proposal W8476-06-MSMP/L

**Table 7 - Task Authorization**

This Table will be amended, as and when required, to incorporate approved Task Authorization IAW Contract Article 1.6

TA#	Variant	Description	BoP F/C	Value	Delivery	Remarks	Completed y/n

<b>Table 8 Total</b>	<b>0.00</b>
----------------------	-------------

TA : Task Authorization  
BoP : Basis of Payment  
F/C: Fixed/Ceiling price

**Table 8 - Foreign Exchange Rate Adjustment**

**CLAIM FOR EXCHANGE RATE ADJUSTMENTS**

<b><u>Contractor Name</u></b>	<b><u>PWGSC File No.</u></b>
<b><u>Contract No.</u></b>	<b><u>Item/Invoice No.</u></b>

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Item No.	Description	Foreign Currency Component (FCC) per Unit (\$CAN)	Foreign Currency	Qty	Initial Exchange Rate (i <sub>0</sub> )	Exchange Rate for Adjustment (i <sub>1</sub> )	% Change = (i <sub>1</sub> - i <sub>0</sub> ) / i <sub>0</sub>	Adjustment = FCC x Qty x ( i <sub>1</sub> - i <sub>0</sub> ) / i <sub>0</sub>
<b>Total Exchange Rate Adjustment</b>								<b>\$ -</b>

**Where:**

i<sub>0</sub> = initial exchange rate (\$CAN per unit of foreign currency [e.g. \$1 US] )

i<sub>1</sub> = exchange rate for adjustment purposes (\$CAN per unit of foreign currency [e.g. \$1 US] )

- Instructions for Payment:**
- This form must be submitted with the invoice for payment with respect to all items of Annex C with an FCC. Complete columns (1) through (7). Columns (8) and (9) will auto complete.
  - Suppliers should submit a separate calculation sheet for each invoice submitted showing the exchange rate adjustment for all line items of Annex C with an FCC.
  - This form must be provided with all invoices where the exchange rate change is greater than 2%, plus or minus (i.e. abs[(i<sub>1</sub> - i<sub>0</sub>) / i<sub>0</sub>] > .02), unless otherwise stated in the contract.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06MSMP/L

Part 7 - Resulting Contract - Acquisition

Annex D - 2030 2013/04/25 General Conditions

Higher Complexity - Goods

This Annex includes the General Conditions 2030 (2013-04-25) – Higher Complexity – Goods that form part of this Contract.

This Annex must only be read in conjunction with the Terms and Conditions of the Contract.

**2030 (2013-04-25) General Conditions - Higher Complexity - Goods  
Public Works and Government Services Canada**

- 01 Interpretation
- 02 Standard Clauses and Conditions
- 03 Powers of Canada
- 04 Status of the Contractor
- 05 Conduct of the Work
- 06 Subcontracts
- 07 Specifications
- 08 Condition of Material
- 09 Replacement of Specific Individuals
- 10 Time of the Essence
- 11 Excusable Delay
- 12 Inspection and Acceptance of the Work
- 13 Invoice Submission
- 14 Taxes
- 15 Transportation Costs
- 16 Transportation Carriers' Liability
- 17 Shipment Documentation
- 18 Payment Period
- 19 Interest on Overdue Accounts
- 20 Compliance with Applicable Laws
- 21 Ownership
- 22 Warranty
- 23 Confidentiality
- 24 Use and Translation of Written Material
- 25 Government Property
- 26 Liability
- 27 Intellectual Property Infringement and Royalties
- 28 Amendment and Waivers

- 29 Assignment
- 30 Suspension of the Work
- 31 Default by the Contractor
- 32 Termination for Convenience
- 33 Accounts and Audit
- 34 Right of Set-off
- 35 Notice
- 36 Conflict of Interest and Values and Ethics Codes for the Public Service
- 37 No Bribe
- 38 Survival
- 39 Severability
- 40 Successors and Assigns
- 41 Contingency Fees
- 42 International Sanctions
- 43 Code of Conduct and Certifications - Contract
- 44 Entire Agreement

### **2030 01 (2013-04-25) Interpretation**

In the Contract, unless the context otherwise requires:

"Applicable Taxes" means the Goods and Services Tax (GST), the Harmonized Sales Tax (HST), and any provincial tax, by law, payable by Canada such as, the Quebec Sales Tax (QST) as of April 1, 2013;

"Articles of Agreement" means the clauses and conditions incorporated in full text or incorporated by reference from the Standard Acquisition Clauses and Conditions Manual to form the body of the Contract; it does not include these general conditions, any supplemental general conditions, annexes, the Contractor's bid or any other document;

"Canada", "Crown", "Her Majesty" or "the Government" means Her Majesty the Queen in right of Canada as represented by the Minister of Public Works and Government Services and any other person duly authorized to act on behalf of that minister or, if applicable, an appropriate minister to whom the Minister of Public Works and Government Services has delegated his or her powers, duties or functions and any other person duly authorized to act on behalf of that minister;

"Contract" means the Articles of Agreement, these general conditions, any supplemental general conditions, annexes and any other document specified or referred to as forming part of the Contract, all as amended by agreement of the Parties from time to time;

"Contracting Authority" means the person designated by that title in the Contract, or by notice to the Contractor, to act as Canada's representative to manage the Contract;

"Contractor" means the person, entity or entities named in the Contract to supply goods, services or both to Canada;

"Contract Price" means the amount stated in the Contract to be payable to the Contractor for the Work, exclusive of Applicable Taxes;

"Cost" means cost determined according to Contract Cost Principles 1031-2 as revised to the date of the bid solicitation or, if there was no bid solicitation, the date of the Contract;

"Government Property" means anything supplied to the Contractor by or on behalf of Canada for the purposes of performing the Contract and anything acquired by the Contractor in any manner in connection with the Work, the cost of which is paid by Canada under the Contract;

"Party" means Canada, the Contractor, or any other signatory to the Contract and "Parties" means all of them;

"Specifications" means the description of the essential, functional or technical requirements of the Work in the Contract, including the procedures for determining whether the requirements have been met;

"Total Estimated Cost", "Revised Estimated Cost", "Increase (Decrease)" on Page 1 of the Contract or Contract Amendment means an amount used for internal administrative purposes only that comprises the Contract Price, or the revised Contract Price, or the amount that would increase or decrease the Contract Price and the Applicable Taxes as evaluated by the Contracting Authority, and does not constitute tax advice on the part of Canada;

"Work" means all the activities, services, goods, equipment, matters and things required to be done, delivered or performed by the Contractor under the Contract.

## **2030 02 (2008-05-12) Standard Clauses and Conditions**

Pursuant to the *Department of Public Works and Government Services Act*, S.C. 1996, c. 16, the clauses and conditions identified by number, date and title in the Contract are incorporated by reference and form part of the Contract as though expressly set out in the Contract.

## **2030 03 (2008-05-12) Powers of Canada**

All rights, remedies, powers and discretions granted or acquired by Canada under the Contract or by law are cumulative, not exclusive.

## **2030 04 (2008-05-12) Status of the Contractor**

The Contractor is an independent contractor engaged by Canada to perform the Work. Nothing in the Contract is intended to create a partnership, a joint venture or an agency between Canada and the other Party or Parties. The Contractor must not represent itself as an agent or representative of Canada to anyone. Neither the Contractor nor any of its personnel is engaged as an employee or agent of Canada. The Contractor is responsible for all deductions and remittances required by law in relation to its employees.

## **2030 05 (2008-05-12) Conduct of the Work**

1. The Contractor represents and warrants that:
  - a. it is competent to perform the Work;
  - b. it has everything necessary to perform the Work, including the resources, facilities, labour, technology, equipment, and materials; and
  - c. it has the necessary qualifications, including knowledge, skill, know-how and experience, and the ability to use them effectively to perform the Work.

2. The Contractor must:
  - a. perform the Work diligently and efficiently;
  - b. except for Government Property, supply everything necessary to perform the Work;
  - c. use, as a minimum, quality assurance procedures, inspections and controls generally used and recognized by the industry to ensure the degree of quality required by the Contract; and
  - d. ensure that the Work is of proper quality, using appropriate material and workmanship and meets all the requirements of the Contract.
3. Unless the Contracting Authority orders the Contractor to suspend the Work or part of the Work pursuant to section 30, the Contractor must not stop or suspend the Work or part of the Work pending the settlement of any dispute between the Parties about the Contract.
4. The Contractor must provide all reports that are required by the Contract and any other information that Canada may reasonably require from time to time.
5. The Contractor is fully responsible for performing the Work. Canada will not be responsible for any negative consequences or extra costs if the Contractor follows any advice given by Canada unless the Contracting Authority provides the advice to the Contractor in writing and includes a statement specifically relieving the Contractor of any responsibility for negative consequences or extra costs that might result from following the advice.

#### **2030 06 (2012-07-16) Subcontracts**

1. Except as provided in subsection 2, the Contractor must obtain the Contracting Authority's written consent before subcontracting or permitting the subcontracting of any part of the Work. A subcontract includes a contract entered into by any subcontractor at any tier to perform any part of the Work.
2. The Contractor is not required to obtain consent for subcontracts specifically authorized in the Contract. The Contractor may also without the consent of the Contracting Authority:
  - a. purchase "off-the-shelf" items and any standard articles and materials that are ordinarily produced by manufacturers in the normal course of business;
  - b. subcontract any incidental services that would ordinarily be subcontracted in performing the Work;
  - c. in addition to purchases and services referred to in paragraphs (a) and (b), subcontract any part or parts of the Work to one or more subcontractors up to a total value of 40 percent of the Contract Price; and
  - d. permit its subcontractors at any tier to make purchases or subcontract as permitted in paragraphs (a), (b) and (c).
3. In any subcontract other than a subcontract referred to in paragraph 2.(a), the Contractor must, unless the Contracting Authority agrees in writing, ensure that the subcontractor is bound by conditions compatible with and, in the opinion of the Contracting Authority, not less favourable to Canada than the conditions of the Contract.
4. Even if Canada consents to a subcontract, the Contractor is responsible for performing the Contract and Canada is not responsible to any subcontractor. The Contractor is

responsible for any matters or things done or provided by any subcontractor under the Contract and for paying any subcontractors for any part of the Work they perform.

### **2030 07 (2008-05-12) Specifications**

1. All Specifications provided by Canada or on behalf of Canada to the Contractor in connection with the Contract belong to Canada and must be used by the Contractor only for the purpose of performing the Work.
2. If the Contract provides that Specifications furnished by the Contractor must be approved by Canada, that approval will not relieve the Contractor of its responsibility to meet all requirements of the Contract.

### **2030 08 (2008-05-12) Condition of Material**

Unless provided otherwise in the Contract, material supplied must be new and conform to the latest issue of the applicable drawing, specifications and part number that is in effect on the bid closing date or, if there was no bid solicitation, the date of the Contract.

### **2030 09 (2008-05-12) Replacement of Specific Individuals**

1. If specific individuals are identified in the Contract to perform the Work, the Contractor must provide the services of those individuals unless the Contractor is unable to do so for reasons beyond its control.
2. If the Contractor is unable to provide the services of any specific individual identified in the Contract, it must provide a replacement with similar qualifications and experience. The replacement must meet the criteria used in the selection of the Contractor and be acceptable to Canada. The Contractor must, as soon as possible, give notice to the Contracting Authority of the reason for replacing the individual and provide:
  - a. the name, qualifications and experience of the proposed replacement; and
  - b. proof that the proposed replacement has the required security clearance granted by Canada, if applicable.
3. The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that a replacement stop performing the Work. In such a case, the Contractor must immediately comply with the order and secure a further replacement in accordance with subsection 2. The fact that the Contracting Authority does not order that a replacement stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.

### **2030 10 (2008-05-12) Time of the Essence**

It is essential that the Work be delivered within or at the time stated in the Contract.

### **2030 11 (2008-05-12) Excusable Delay**

1. A delay in the performance by the Contractor of any obligation under the Contract that is caused by an event that
  - a. is beyond the reasonable control of the Contractor,



- b. could not reasonably have been foreseen,
- c. could not reasonably have been prevented by means reasonably available to the Contractor, and
- d. occurred without the fault or neglect of the Contractor,

will be considered an "Excusable Delay" if the Contractor advises the Contracting Authority of the occurrence of the delay or of the likelihood of the delay as soon as the Contractor becomes aware of it. The Contractor must also advise the Contracting Authority, within fifteen (15) working days, of all the circumstances relating to the delay and provide to the Contracting Authority for approval a clear work around plan explaining in detail the steps that the Contractor proposes to take in order to minimize the impact of the event causing the delay.

- 2. Any delivery date or other date that is directly affected by an Excusable Delay will be postponed for a reasonable time that will not exceed the duration of the Excusable Delay.
- 3. However, if an Excusable Delay has continued for thirty (30) days or more, the Contracting Authority may, by giving notice in writing to the Contractor, terminate the Contract. In such a case, the Parties agree that neither will make any claim against the other for damages, costs, expected profits or any other loss arising out of the termination or the event that contributed to the Excusable Delay. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.
- 4. Unless Canada has caused the delay by failing to meet an obligation under the Contract, Canada will not be responsible for any costs incurred by the Contractor or any of its subcontractors or agents as a result of an Excusable Delay.
- 5. If the Contract is terminated under this section, the Contracting Authority may require the Contractor to deliver to Canada, in the manner and to the extent directed by the Contracting Authority, any completed parts of the Work not delivered and accepted before the termination and anything that the Contractor has acquired or produced specifically to perform the Contract. Canada will pay the Contractor:
  - a. the value, of all completed parts of the Work delivered to and accepted by Canada, based on the Contract Price, including the proportionate part of the Contractor's profit or fee included in the Contract Price; and
  - b. the Cost to the Contractor that Canada considers reasonable in respect of anything else delivered to and accepted by Canada.

The total amount paid by Canada under the Contract to the date of termination and any amounts payable under this subsection must not exceed the Contract Price.

### **2030 12 (2008-05-12) Inspection and Acceptance of the Work**

- 1. All the Work is subject to inspection and acceptance by Canada. Inspection and acceptance of the Work by Canada do not relieve the Contractor of its responsibility for defects or other failures to meet the requirements of the Contract. Canada will have the right to reject any work that is not in accordance with the requirements of the Contract and require its correction or replacement at the Contractor's expense.
- 2. The Contractor must provide representatives of Canada access to all locations where any part of the Work is being performed at any time during working hours. Representatives of Canada may make examinations and such tests of the Work as they may think fit. The Contractor must provide all assistance and facilities, test pieces, samples and documentation that the representatives of Canada may reasonably require for the

- carrying out of the inspection. The Contractor must forward such test pieces and samples to such person or location as Canada specifies.
3. The Contractor must inspect and approve any part of the Work before submitting it for acceptance or delivering it to Canada. The Contractor must keep accurate and complete inspection records that must be made available to Canada on request. Representatives of Canada may make copies and take extracts of the records during the performance of the Contract and for up to three (3) years after the end of the Contract.

### **2030 13 (2013-03-21) Invoice Submission**

1. Invoices must be submitted in the Contractor's name. The Contractor must submit invoices for each delivery or shipment; invoices must only apply to the Contract. Each invoice must indicate whether it covers partial or final delivery.
2. Invoices must show:
  - a. the date, the name and address of the client department, item or reference numbers, deliverable/description of the Work, contract number, Client Reference Number (CRN), Procurement Business Number (PBN), and financial code(s);
  - b. details of expenditures (such as item, quantity, unit of issue, unit price, fixed time labour rates and level of effort, subcontracts, as applicable) in accordance with the Basis of Payment, exclusive of Applicable Taxes;
  - c. deduction for holdback, if applicable;
  - d. the extension of the totals, if applicable; and
  - e. if applicable, the method of shipment together with date, case numbers and part or reference numbers, shipment charges and any other additional charges.
3. Applicable Taxes must be specified on all invoices as a separate item along with corresponding registration numbers from the tax authorities. All items that are zero-rated, exempt or to which Applicable Taxes do not apply, must be identified as such on all invoices.
4. By submitting an invoice, the Contractor certifies that the invoice is consistent with the Work delivered and is in accordance with the Contract.

### **2030 14 (2013-03-21) Taxes**

1. Federal government departments and agencies are required to pay Applicable Taxes.
2. Applicable Taxes will be paid by Canada as provided in the Invoice Submission section. It is the sole responsibility of the Contractor to charge Applicable Taxes at the correct rate in accordance with applicable legislation. The Contractor agrees to remit to appropriate tax authorities any amounts of Applicable Taxes paid or due.
3. The Contractor is not entitled to use Canada's exemptions from any tax, such as provincial sales taxes, unless otherwise specified by law. The Contractor must pay applicable provincial sales tax, ancillary taxes, and any commodity tax, on taxable goods or services used or consumed in the performance of the Contract (in accordance with applicable legislation), including for material incorporated into real property.
4. In those cases where Applicable Taxes, customs duties, and excise taxes are included in the Contract Price, the Contract Price will be adjusted to reflect any increase, or decrease, of Applicable Taxes, customs duties, and excise taxes that will have occurred between bid submission and contract award. However, there will be no adjustment for

any change to increase the Contract Price if public notice of the change was given before bid submission date in sufficient detail to have permitted the Contractor to calculate the effect of the change.

5. Tax Withholding of 15 Percent – Canada Revenue Agency

Pursuant to the *Income Tax Act*, 1985, c. 1 (5th Supp.) and the *Income Tax Regulations*, Canada must withhold 15 percent of the amount to be paid to the Contractor in respect of services provided in Canada if the Contractor is not a resident of Canada, unless the Contractor obtains a valid waiver from the *Canada Revenue Agency*. The amount withheld will be held on account for the Contractor in respect to any tax liability which may be owed to Canada.

**2030 15 (2010-01-11) Transportation Costs**

If transportation costs are payable by Canada under the Contract and the Contractor makes the transportation arrangements, shipments must be made by the most direct and economical means consistent with normal shipping practice. The costs must be shown as a separate item on the invoice.

**2030 16 (2010-01-11) Transportation Carriers' Liability**

The federal government's policy of underwriting its own risks precludes payment of insurance or valuation charges for transportation beyond the point at which ownership of goods passes to the federal government (determined by the FOB point or Incoterms). Where increased carrier liability is available without charge, the Contractor must obtain the increased liability for shipment.

**2030 17 (2008-05-12) Shipment Documentation**

For the shipment of goods, the transportation bill of lading must accompany the original invoice, except for "collect" shipments (if and when stipulated), in which event it must accompany the shipment. In addition, a packing slip must accompany each shipment, showing item, quantity, part or reference numbers, description of the goods and contract number, including the CRN and PBN. If the goods have been inspected at the Contractor's plant, the signed inspection voucher must be attached to the packing slip normally enclosed in the packing note envelope.

**2030 18 (2008-05-12) Payment Period**

1. Canada's standard payment period is thirty (30) days. The payment period is measured from the date an invoice in acceptable form and content is received in accordance with the Contract or the date the Work is delivered in acceptable condition as required in the Contract, whichever is later. A payment is considered overdue on the 31<sup>st</sup> day following that date and interest will be paid automatically in accordance with section 19.
2. If the content of the invoice and its substantiating documentation are not in accordance with the Contract or the Work is not in acceptable condition, Canada will notify the Contractor within fifteen (15) days of receipt. The 30-day payment period begins upon receipt of the revised invoice or the replacement or corrected Work. Failure by Canada to notify the Contractor within fifteen (15) days will only result in the date specified in subsection 1 to apply for the sole purpose of calculating interest on overdue accounts.

### **2030 19 (2008-12-12) Interest on Overdue Accounts**

1. For the purpose of this section:  
  
"Average Rate" means the simple arithmetic mean of the Bank Rates in effect at 4:00 p.m. Eastern Time each day during the calendar month immediately before the calendar month in which payment is made;  
  
"Bank Rate" means the rate of interest established from time to time by the Bank of Canada as the minimum rate at which the Bank of Canada makes short term advances to members of the Canadian Payments Association;  
  
"date of payment" means the date of the negotiable instrument drawn by the Receiver General for Canada to pay any amount under the Contract;  
  
an amount becomes "overdue" when it is unpaid on the first day following the day on which it is due and payable according to the Contract.
2. Canada will pay to the Contractor simple interest at the Average Rate plus 3 percent per year on any amount that is overdue, from the date that amount becomes overdue until the day before the date of payment, inclusive. The Contractor is not required to provide notice to Canada for interest to be payable.
3. Canada will pay interest in accordance with this section only if Canada is responsible for the delay in paying the Contractor. Canada will not pay interest on overdue advance payments.

### **2030 20 (2008-05-12) Compliance with Applicable Laws**

1. The Contractor must comply with all laws applicable to the performance of the Contract. The Contractor must provide evidence of compliance with such laws to Canada at such times as Canada may reasonably request.
2. The Contractor must obtain and maintain at its own cost all permits, licenses, regulatory approvals and certificates required to perform the Work. If requested by the Contracting Authority, the Contractor must provide a copy of any required permit, license, regulatory approvals or certificate to Canada.

### **2030 21 (2008-05-12) Ownership**

1. Unless provided otherwise in the Contract, the Work or any part of the Work belongs to Canada after delivery and acceptance by or on behalf of Canada.
2. However if any payment is made to the Contractor for or on account of any work, either by way of progress or milestone payments, that work paid for by Canada belongs to Canada upon such payment being made. This transfer of ownership does not constitute acceptance by Canada of the Work or any part of the Work and does not relieve the Contractor of its obligation to perform the Work in accordance with the Contract.
3. Despite any transfer of ownership, the Contractor is responsible for any loss or damage to the Work or any part of the Work until it is delivered to Canada in accordance with the Contract. Even after delivery, the Contractor remains responsible for any loss or damage to any part of the Work caused by the Contractor or any subcontractor.
4. Upon transfer of ownership to the Work or any part of the Work to Canada, the Contractor must, if requested by Canada, establish to Canada's satisfaction that the title is free and clear of all claims, liens, attachments, charges or encumbrances. The

Contractor must execute any conveyances and other instruments necessary to perfect the title that Canada may require.

### **2030 22 (2008-05-12) Warranty**

1. Despite inspection and acceptance of the Work by or on behalf of Canada and without restricting any other provision of the Contract or any condition, warranty or provision imposed by law, the Contractor warrants that, for twelve (12) months (or any other period stated in the Contract), the Work will be free from all defects in design, material or workmanship, and will conform to the requirements of the Contract. The warranty period begins on the date of delivery, or if acceptance takes place at a later date, the date of acceptance. With respect to Government Property not supplied by the Contractor, the Contractor's warranty will extend only to its proper incorporation into the Work.
2. In the event of a defect or non-conformance in any part of the Work during the warranty period, the Contractor, at the request of Canada to do so, must as soon as possible repair, replace or otherwise make good at its own option and expense the part of the Work found to be defective or not in conformance with the requirements of the Contract.
3. The Work or any part of the Work found to be defective or non-conforming will be returned to the Contractor's plant for replacement, repair or making good. However, when in the opinion of Canada it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be paid the fair and reasonable Cost (including reasonable travel and living expenses) incurred in so doing, with no allowance for profit, less an amount equal to the Cost of rectifying the defect or non-conformance at the Contractor's plant.
4. Canada must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant pursuant to subsection 3. The Contractor must pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location directed by Canada.
5. The Contractor must remedy all data and reports pertaining to any correction or replacement under this section, including revisions and updating of all affected data, manuals, publications, software and drawings called for under the Contract, at no cost to Canada.
6. If the Contractor fails to fulfill any obligation described in this section within a reasonable time of receiving a notice, Canada will have the right to remedy or to have remedied the defective or non-conforming work at the Contractor's expense. If Canada does not wish to correct or replace the defective or non-conforming work, an equitable reduction will be made in the Contract Price.
7. The warranty period is automatically extended by the duration of any period or periods where the Work is unavailable for use or cannot be used because of a defect or non-conformance during the original warranty period. The warranty applies to any part of the Work repaired, replaced or otherwise made good pursuant to subsection 2, for the greater of:
  - a. the warranty period remaining, including the extension, or
  - b. ninety (90) days or such other period as may be specified for that purpose by agreement between the Parties.

### **2030 23 (2008-05-12) Confidentiality**

1. The Contractor must keep confidential all information provided to the Contractor by or on behalf of Canada in connection with the Work, including any information that is confidential or proprietary to third parties, and all information conceived, developed or produced by the Contractor as part of the Work when copyright or any other intellectual property rights in such information belongs to Canada under the Contract. The Contractor must not disclose any such information without the written permission of Canada. The Contractor may disclose to a subcontractor any information necessary to perform the subcontract as long as the subcontractor agrees to keep the information confidential and that it will be used only to perform the subcontract.
2. The Contractor agrees to use any information provided to the Contractor by or on behalf of Canada only for the purpose of the Contract. The Contractor acknowledges that all this information remains the property of Canada or the third party, as the case may be. Unless provided otherwise in the Contract, the Contractor must deliver to Canada all such information, together with every copy, draft, working paper and note that contains such information, upon completion or termination of the Contract or at such earlier time as Canada may require.
3. Subject to the *Access to Information Act*, R.S.C. 1985, c. A-1, and to any right of Canada under the Contract to release or disclose, Canada must not release or disclose outside the Government of Canada any information delivered to Canada under the Contract that is proprietary to the Contractor or a subcontractor.
4. The obligations of the Parties set out in this section do not apply to any information if the information:
  - a. is publicly available from a source other than the other Party; or
  - b. is or becomes known to a Party from a source other than the other Party, except any source that is known to be under an obligation to the other Party not to disclose the information; or
  - c. is developed by a Party without use of the information of the other Party.
5. Wherever possible, the Contractor must mark or identify any proprietary information delivered to Canada under the Contract as "Property of (Contractor's name), permitted Government uses defined under Public Works and Government Services (PWGSC) Contract No. (fill in Contract Number)". Canada will not be liable for any unauthorized use or disclosure of information that could have been so marked or identified and was not.
6. If the Contract, the Work, or any information referred to in subsection 1 is identified as TOP SECRET, SECRET, CONFIDENTIAL, or PROTECTED by Canada, the Contractor must at all times take all measures reasonably necessary for the safeguarding of the material so identified, including those set out in the PWGSC Industrial Security Manual and its supplements and any other instructions issued by Canada.
7. If the Contract, the Work, or any information referred to in subsection 1 is identified as TOP SECRET, SECRET, CONFIDENTIAL, or PROTECTED, by Canada, representatives of Canada are entitled to inspect the Contractor's premises and the premises of a subcontractor at any tier for security purposes at any time during the term of the Contract. The Contractor must comply with, and ensure that any subcontractor complies with, all written instructions issued by Canada dealing with the material so identified, including any requirement that employees of the Contractor or of any subcontractor execute and deliver declarations relating to reliability screenings, security clearances and other procedures.

#### **2030 24 (2008-05-12) Use and Translation of Written Material**

1. Unless provided otherwise in the Contract, copyright in any written material used, produced or delivered under the Contract belongs to its author or rightful owner. Canada has the right to use, copy and disclose, for government purposes, the written material related to the Work that is delivered to Canada.
2. If the Contract does not require the delivery of any written material in both of Canada's official languages, Canada may translate the written material into the other official language. The Contractor acknowledges that Canada owns the rights on the translation and that Canada is under no obligation to provide the translation to the Contractor. Canada agrees that any translation must include any copyright and any proprietary right notice that was part of the original. Canada acknowledges that the Contractor is not responsible for any technical errors or other problems that may arise as a result of the translation.

#### **2030 25 (2008-05-12) Government Property**

1. All Government Property must be used by the Contractor solely for the purpose of the Contract and remains the property of Canada. The Contractor must maintain adequate accounting records of all Government Property and, whenever feasible, mark it as being the property of Canada.
2. The Contractor must take reasonable and proper care of all Government Property while it is in its possession or subject to its control. The Contractor is responsible for any loss or damage resulting from its failure to do so other than loss or damage caused by ordinary wear and tear.
3. All Government Property, unless it is installed or incorporated in the Work, must be returned to Canada on demand. All scrap and all waste materials, articles or things that are Government Property must, unless provided otherwise in the Contract, remain the property of Canada and must be disposed of only as directed by Canada.
4. At the time of completion of the Contract, and if requested by the Contracting Authority, the Contractor must provide to Canada an inventory of all Government Property relating to the Contract.

#### **2030 26 (2008-05-12) Liability**

The Contractor is liable for any damage caused by the Contractor, its employees, subcontractors, or agents to Canada or any third party. Canada is liable for any damage caused by Canada, its employees or agents to the Contractor or any third party. The Parties agree that no limitation of liability or indemnity provision applies to the Contract unless it is specifically incorporated in full text in the Articles of Agreement. Damage includes any injury to persons (including injury resulting in death) or loss of or damage to property (including real property) caused as a result of or during the performance of the Contract.

#### **2030 27 (2008-05-12) Intellectual Property Infringement and Royalties**

1. The Contractor represents and warrants that, to the best of its knowledge, neither it nor Canada will infringe any third party's intellectual property rights in performing or using the Work, and that Canada will have no obligation to pay royalties of any kind to anyone in connection with the Work.

2. If anyone makes a claim against Canada or the Contractor concerning intellectual property infringement or royalties related to the Work, that Party agrees to notify the other Party in writing immediately. If anyone brings a claim against Canada, according to *Department of Justice Act*, R.S. 1985, c. J-2, the Attorney General of Canada must have the regulation and conduct of all litigation for or against Canada, but the Attorney General may request that the Contractor defend Canada against the claim. In either case, the Contractor agrees to participate fully in the defence and any settlement negotiations and to pay all costs, damages and legal costs incurred or payable as a result of the claim, including the amount of any settlement. Both Parties agree not to settle any claim unless the other Party first approves the settlement in writing.
3. The Contractor has no obligation regarding claims that were only made because:
  - a. Canada modified the Work or part of the Work without the Contractor's consent or used the Work or part of the Work without following a requirement of the Contract; or
  - b. Canada used the Work or part of the Work with a product that the Contractor did not supply under the Contract (unless that use is described in the Contract or the manufacturer's specifications); or
  - c. the Contractor used equipment, drawings, specifications or other information supplied to the Contractor by Canada (or by someone authorized by Canada); or
  - d. the Contractor used a specific item of equipment or software that it obtained because of specific instructions from the Contracting Authority; however, this exception only applies if the Contractor has included the following language in its own contract with the supplier of that equipment or software: "[Supplier name] acknowledges that the purchased items will be used by the Government of Canada. If a third party claims that equipment or software supplied under this contract infringes any intellectual property right, [supplier name], if requested to do so by either [Contractor name] or Canada, will defend both [Contractor name] and Canada against that claim at its own expense and will pay all costs, damages and legal fees payable as a result of that infringement." Obtaining this protection from the supplier is the Contractor's responsibility and, if the Contractor does not do so, it will be responsible to Canada for the claim.
4. If anyone claims that, as a result of the Work, the Contractor or Canada is infringing its intellectual property rights, the Contractor must immediately do one of the following:
  - a. take whatever steps are necessary to allow Canada to continue to use the allegedly infringing part of the Work; or
  - b. modify or replace the Work to avoid intellectual property infringement, while ensuring that the Work continues to meet all the requirements of the Contract; or
  - c. take back the Work and refund any part of the Contract Price that Canada has already paid.

If the Contractor determines that none of these alternatives can reasonably be achieved, or if the Contractor fails to take any of these steps within a reasonable amount of time, Canada may choose either to require the Contractor to do (c), or to take whatever steps are necessary to acquire the rights to use the allegedly infringing part(s) of the Work itself, in which case the Contractor must reimburse Canada for all the costs it incurs to do so.



### **2030 28 (2008-05-12) Amendment and Waivers**

1. To be effective, any amendment to the Contract must be done in writing by the Contracting Authority and the authorized representative of the Contractor.
2. While the Contractor may discuss any proposed modifications to the Work with other representatives of Canada, Canada will not be responsible for the cost of any modification unless it has been incorporated into the Contract in accordance with subsection 1.
3. A waiver will only be valid, binding or affect the rights of the Parties if it is made in writing by, in the case of a waiver by Canada, the Contracting Authority and, in the case of a waiver by the Contractor, the authorized representative of the Contractor.
4. The waiver by a Party of a breach of any condition of the Contract will not be treated or interpreted as a waiver of any subsequent breach and therefore will not prevent that Party from enforcing of that term or condition in the case of a subsequent breach.

### **2030 29 (2008-05-12) Assignment**

1. The Contractor must not assign the Contract without first obtaining the written consent of the Contracting Authority. Any assignment made without that consent is void and will have no effect. The assignment will be effective upon execution of an assignment agreement signed by the Parties and the assignee.
2. Assignment of the Contract does not relieve the Contractor from any obligation under the Contract and it does not impose any liability upon Canada.

### **2030 30 (2008-05-12) Suspension of the Work**

1. The Contracting Authority may at any time, by written notice, order the Contractor to suspend or stop the Work or part of the Work under the Contract for a period of up to one hundred eighty (180) days. The Contractor must immediately comply with any such order in a way that minimizes the cost of doing so. While such an order is in effect, the Contractor must not remove any part of the Work from any premises without first obtaining the written consent of the Contracting Authority. Within these one hundred eighty (180) days, the Contracting Authority must either cancel the order or terminate the Contract, in whole or in part, under section 31 or section 32.
2. When an order is made under subsection 1, unless the Contracting Authority terminates the Contract by reason of default by the Contractor or the Contractor abandons the Contract, the Contractor will be entitled to be paid its additional costs incurred as a result of the suspension plus a fair and reasonable profit.
3. When an order made under subsection 1 is cancelled, the Contractor must resume work in accordance with the Contract as soon as practicable. If the suspension has affected the Contractor's ability to meet any delivery date under the Contract, the date for performing the part of the Work affected by the suspension will be extended for a period equal to the period of suspension plus a period, if any, that in the opinion of the Contracting Authority, following consultation with the Contractor, is necessary for the Contractor to resume the Work. Any equitable adjustments will be made as necessary to any affected conditions of the Contract.

### **2030 31 (2010-08-16) Default by the Contractor**

1. If the Contractor is in default in carrying out any of its obligations under the Contract, the Contracting Authority may, by giving written notice to the Contractor, terminate for default the Contract or part of the Contract. The termination will take effect immediately or at the expiration of a cure period specified in the notice, if the Contractor has not cured the default to the satisfaction of the Contracting Authority within that cure period.
2. If the Contractor becomes bankrupt or insolvent, makes an assignment for the benefit of creditors, or takes the benefit of any statute relating to bankrupt or insolvent debtors, or if a receiver is appointed under a debt instrument or a receiving order is made against the Contractor, or an order is made or a resolution passed for the winding down of the Contractor, the Contracting Authority may, to the extent permitted by the laws of Canada, by giving written notice to the Contractor, immediately terminate for default the Contract or part of the Contract.
3. If Canada gives notice under subsection 1 or 2, the Contractor will have no claim for further payment except as provided in this section. The Contractor will be liable to Canada for any amounts paid by Canada, including milestone payments, and for all losses and damages suffered by Canada because of the default or occurrence upon which the notice was based, including any increase in the cost incurred by Canada in procuring the Work from another source. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.
4. Upon termination of the Contract under this section, the Contracting Authority may require the Contractor to deliver to Canada, in the manner and to the extent directed by the Contracting Authority, any completed parts of the Work, not delivered and accepted before the termination and anything the Contractor has acquired or produced specifically to perform the Contract. In such a case, subject to the deduction of any claim that Canada may have against the Contractor arising under the Contract or out of the termination, Canada will pay or credit to the Contractor:
  - a. the value, of all completed parts of the Work delivered to and accepted by Canada, based on the Contract Price, including the proportionate part of the Contractor's profit or fee included in the Contract Price; and
  - b. the cost to the Contractor that Canada considers reasonable in respect of anything else delivered to and accepted by Canada.

The total amount paid by Canada under the Contract to the date of the termination and any amount payable under this subsection must not exceed the Contract Price.
5. Title to everything for which payment is made to the Contractor will, once payment is made, pass to Canada unless it already belongs to Canada under any other provision of the Contract.
6. If the Contract is terminated for default under subsection 1, but it is later determined that grounds did not exist for a termination for default, the notice will be considered a notice of termination for convenience issued under subsection 1 of section 32.

### **2030 32 (2008-05-12) Termination for Convenience**

1. At any time before the completion of the Work, the Contracting Authority may, by giving notice in writing to the Contractor, terminate for convenience the Contract or part of the Contract. Once such a notice of termination for convenience is given, the Contractor must

- comply with the requirements of the termination notice. If the Contract is terminated in part only, the Contractor must proceed to complete any part of the Work that is not affected by the termination notice. The termination will take effect immediately or, as the case may be, at the time specified in the termination notice.
2. If a termination notice is given pursuant to subsection 1, the Contractor will be entitled to be paid, for costs that have been reasonably and properly incurred to perform the Contract to the extent that the Contractor has not already been paid or reimbursed by Canada. The Contractor will be paid:
    - a. on the basis of the Contract Price, for all completed work that is inspected and accepted in accordance with the Contract, whether completed before, or after the termination in accordance with the instructions contained in the termination notice;
    - b. the Cost to the Contractor plus a fair and reasonable profit for all work terminated by the termination notice before completion; and
    - c. all costs incidental to the termination of the Work incurred by the Contractor but not including the cost of severance payments or damages to employees whose services are no longer required, except wages that the Contractor is obligated by statute to pay.
  3. Canada may reduce the payment in respect of any part of the Work, if upon inspection, it does not meet the requirements of the Contract.
  4. The total of the amounts, to which the Contractor is entitled to be paid under this section, together with any amounts paid, due or becoming due to the Contractor must not exceed the Contract Price. The Contractor will have no claim for damages, compensation, loss of profit, allowance arising out of any termination notice given by Canada under this section except to the extent that this section expressly provides. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.

### **2030 33 (2008-05-12) Accounts and Audit**

1. The Contractor must keep proper accounts and records of the cost of performing the Work and of all expenditures or commitments made by the Contractor in connection with the Work, including all invoices, receipts and vouchers. The Contractor must retain records, including bills of lading and other evidence of transportation or delivery, for all deliveries made under the Contract.
2. If the Contract includes payment for time spent by the Contractor, its employees, representatives, agents or subcontractors performing the Work, the Contractor must keep a record of the actual time spent each day by each individual performing any part of the Work.
3. Unless Canada has consented in writing to its disposal, the Contractor must retain all the information described in this section for six (6) years after it receives the final payment under the Contract, or until the settlement of all outstanding claims and disputes, whichever is later. During this time, the Contractor must make this information available for audit, inspection and examination by the representatives of Canada, who may make copies and take extracts. The Contractor must provide all reasonably required facilities for any audit and inspection and must furnish all the information as the representatives of Canada may from time to time require to perform a complete audit of the Contract.
4. The amount claimed under the contract, calculated in accordance with the Basis of Payment provision in the Articles of Agreement, is subject to government audit both

before and after payment is made. If an audit is performed after payment, the Contractor agrees to repay any overpayment immediately on demand by Canada. Canada may hold back, deduct and set off any credits owing and unpaid under this section from any money that Canada owes to the Contractor at any time (including under other contracts). If Canada does not choose to exercise this right at any given time, Canada does not lose this right.

#### **2030 34 (2008-05-12) Right of Set-off**

Without restricting any right of set-off given by law, Canada may set-off against any amount payable to the Contractor under the Contract, any amount payable to Canada by the Contractor under the Contract or under any other current contract. Canada may, when making a payment pursuant to the Contract, deduct from the amount payable to the Contractor any such amount payable to Canada by the Contractor which, by virtue of the right of set-off, may be retained by Canada.

#### **2030 35 (2008-05-12) Notice**

Any notice under the Contract must be in writing and may be delivered by hand, courier, mail, facsimile or other electronic method that provides a paper record of the text of the notice. It must be sent to the Party for whom it is intended at the address stated in the Contract. Any notice will be effective on the day it is received at that address. Any notice to Canada must be delivered to the Contracting Authority.

#### **2030 36 (2008-05-12) Conflict of Interest and Values and Ethics Codes for the Public Service**

The Contractor acknowledges that individuals who are subject to the provisions of the *Conflict of Interest Act*, 2006, c. 9, s. 2, the Conflict of Interest Code for Members of the House of Commons, the Values and Ethics Code for the Public Service or all other codes of values and ethics applicable within specific organizations cannot derive any direct benefit resulting from the Contract.

#### **2030 37 (2008-05-12) No Bribe**

The Contractor declares that no bribe, gift, benefit, or other inducement has been or will be paid, given, promised or offered directly or indirectly to any official or employee of Canada or to a member of the family of such a person, with a view to influencing the entry into the Contract or the administration of the Contract.

#### **2030 38 (2008-05-12) Survival**

All the Parties' obligations of confidentiality, representations and warranties set out in the Contract as well as the provisions, which by the nature of the rights or obligations might reasonably be expected to survive, will survive the expiry or termination of the Contract.

### **2030 39 (2008-05-12) Severability**

If any provision of the Contract is declared by a court of competent jurisdiction to be invalid, illegal or unenforceable, that provision will be removed from the Contract without affecting any other provision of the Contract.

### **2030 40 (2008-05-12) Successors and Assigns**

The Contract is to the benefit of and binds the successors and permitted assignees of Canada and of the Contractor.

### **2030 41 (2008-12-12) Contingency Fees**

The Contractor certifies that it has not, directly or indirectly, paid or agreed to pay and agrees that it will not, directly or indirectly, pay a contingency fee for the solicitation, negotiation or obtaining of the Contract to any person, other than an employee of the Contractor acting in the normal course of the employee's duties. In this section, "contingency fee" means any payment or other compensation that depends or is calculated based on a degree of success in soliciting, negotiating or obtaining the Contract and "person" includes any individual who is required to file a return with the registrar pursuant to section 5 of the *Lobbying Act*, 1985, c. 44 (4th Supplement).

### **2030 42 (2012-07-16) International Sanctions**

1. Persons in Canada, and Canadians outside of Canada, are bound by economic sanctions imposed by Canada. As a result, the Government of Canada cannot accept delivery of goods or services that originate, either directly or indirectly, from the countries or persons subject to economic sanctions.
2. The Contractor must not supply to the Government of Canada any goods or services which are subject to economic sanctions.
3. The Contractor must comply with changes to the regulations imposed during the period of the Contract. The Contractor must immediately advise Canada if it is unable to perform the Work as a result of the imposition of economic sanctions against a country or person or the addition of a good or service to the list of sanctioned goods or services. If the Parties cannot agree on a work around plan, the Contract will be terminated for the convenience of Canada in accordance with section 32.

### **2030 43 (2012-11-09) Code of Conduct and Certifications - Contract**

1. The Contractor agrees to comply with the [Code of Conduct for Procurement](#) and to be bound by its terms. In addition to complying with the [Code of Conduct for Procurement](#), the Contractor must also comply with the terms set out in this section.
2. The Contractor further understands that, to ensure fairness, openness and transparency in the procurement process, the commission of certain acts or offences may result in a termination for default under the Contract. If the Contractor made a false declaration in its bid, makes a false declaration under the Contract, fails to diligently maintain up to date the information herein requested, or if the Contractor or any of the Contractor's affiliates fail to remain free and clear of any acts or convictions specified herein during the period of the Contract, such false declaration or failure to comply may result in a termination for default under the Contract. The Contractor understands that a termination for default will

- not restrict Canada's right to exercise any other remedies that may be available against the Contractor and agrees to immediately return any advance payments.
3. For the purpose of this section, everyone, including but not limited to organizations, bodies corporate, societies, companies, firms, partnerships, associations of persons, parent companies and subsidiaries, whether partly or wholly-owned, as well as individuals and directors, are Contractor's affiliates if:
- a. directly or indirectly either one controls or has the power to control the other, or a third party has the power to control both.
- Indicia of control, include, but are not limited to, interlocking management or ownership, identity of interests among family members, shared facilities and equipment, common use of employees, or a business entity created following the acts or convictions specified in this section which has the same or similar management, ownership, or principal employees, as the case may be.
4. The Contractor must diligently maintain an up-to-date list of names by informing Canada in writing of any change occurring during the period of the contract. The Contractor must also, when so requested, provide Canada with the corresponding Consent Forms.
5. The Contractor certifies that it is aware, and that its affiliates are aware, that Canada may verify the information provided by the Contractor, including the information relating to the acts or convictions specified herein through independent research, use of any government resources or by contacting third parties.
6. The Contractor certifies that neither the Contractor nor any of the Contractor's affiliates have directly or indirectly, paid or agreed to pay, and will not, directly or indirectly, pay a contingency fee to any individual for the solicitation, negotiation or obtaining of the Contract if the payment of the fee would require the individual to file a return under section 5 of the [Lobbying Act](#).
7. The Contractor certifies that no one convicted under any of the provisions under a) or b) are to receive any benefit under the contract. In addition, the Contractor certifies that except for those offences where a criminal pardon or a record suspension has been obtained or capacities restored by the Governor in Council, neither the Contractor nor any of the Contractor's affiliates has ever been convicted of an offence under any of the following provisions:
- a. paragraph 80(1)(d) (False entry, certificate or return), subsection 80(2) (Fraud against Her Majesty) or section 154.01 (Fraud against Her Majesty) of the [Financial Administration Act](#), or
- b. section 121 (Frauds on the government and Contractor subscribing to election fund), section 124 (Selling or Purchasing Office), section 380 (Fraud) for fraud committed against Her Majesty or section 418 (Selling defective stores to Her Majesty) of the *Criminal Code* of Canada, or
- c. section 462.31 (Laundering proceeds of crime) or sections 467.11 to 467.13 (Participation in activities of criminal organization) of the *Criminal Code* of Canada, or
- d. section 45 (Conspiracies, agreements or arrangements between competitors), 46 (Foreign directives) 47 (Bid rigging), 49 (Agreements or arrangements of federal financial institutions), 52 (False or misleading representation), 53 (Deceptive notice of winning a prize) under the [Competition Act](#), or
- e. section 239 (False or deceptive statements) of the *Income Tax Act*, or
- f. section 327 (False or deceptive statements) of the *Excise Tax Act*, or

- g. section 3 (Bribing a foreign public official) of the *Corruption of Foreign Public Officials Act*, or
- h. section 5 (Trafficking in substance), section 6 (Importing and exporting), or section 7 (Production of substance) of the *Controlled Drugs and Substance Act*.

#### **2030 44 (2008-05-12) Entire Agreement**

The Contract constitutes the entire and only agreement between the Parties and supersedes all previous negotiations, communications and other agreements, whether written or oral, unless they are incorporated by reference in the Contract. There are no terms, covenants, representations, statements or conditions binding on the Parties other than those contained in the Contract.

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 7 - Resulting Contract - Acquisition

Annex E - 4006 (2010-08-16) Supplemental General Conditions



This Annex includes the Supplemental General Conditions that forms part of the Contract: 4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information.

This Annex must only be read in conjunction with the Terms and Conditions of the Contract.

**4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information.**

**Public Works and Government Services Canada**

- 01 Interpretation
- 02 Records and Disclosure of Foreground Information
- 03 Ownership of Intellectual Property Rights in Foreground Information
- 04 Licenses to Intellectual Property Rights in Foreground and Background Information
- 05 Contractor's Right to Grant Licenses
- 06 Waiver of Moral Rights
- 07 License to Intellectual Property Rights in Canada's Information
- 08 Transfer or License of Contractor's Rights
- 09 Transfer of Intellectual Property Rights Upon Termination of the Contract for Default
- 10 Products Created Using the Foreground Information

**4006 01 (2008-05-12) Interpretation**

1. In the Contract, unless the context otherwise requires:

"Background Information" means all Intellectual Property that is not Foreground Information that is incorporated into the Work or necessary for the performance of the Work and that is proprietary to or the confidential information of the Contractor, its subcontractors or any other third party;

"Firmware" means computer programs that are stored in integrated circuits, read-only memory or other similar devices within the hardware or other equipment;

"Foreground Information" means all Intellectual Property first conceived, developed, produced or reduced to practice as part of the Work under the Contract;

"General Conditions" means the general conditions that form part of the Contract;

"Intellectual Property" means any information or knowledge of an industrial, scientific, technical, commercial, literary, dramatic, artistic or otherwise creative nature relating to the Work, whether oral or recorded in any form or medium and whether or not subject to copyright; this includes but is not limited to any inventions, designs, methods, processes, techniques, know-how, show-how, models, prototypes, patterns, samples, schematics, experimental or test data, reports, drawings, plans, specifications, photographs, manuals and any other documents, Software, and Firmware;

"Intellectual Property Right" means any intellectual property right recognized by law, including any intellectual property right protected by legislation such as patents, copyright, industrial design, integrated circuit topography, and plant breeders' rights, or subject to protection under the law as trade secrets and confidential information.

"Software" means any computer program whether in source or object code (including Firmware), any computer program documentation recorded in any form or upon any medium, and any computer database, including any modification.

2. Canada's primary objective in entering into the Contract is to receive the deliverables contracted for, to be able to use those deliverables, and any Intellectual Property arising by virtue of the Contract for Canada's activities, including future contracts, procurements and to protect or advance the broader public interest. These supplemental general conditions do not affect any existing Intellectual Property Rights in any information belonging to Canada, the Contractor or a third party.
3. Words and expressions defined in the General Conditions and used in these supplemental general conditions have the meanings given to them in the General Conditions. In the event of any inconsistency between the General Conditions and these supplemental general conditions, the applicable provisions of these supplemental general conditions will prevail. If the General Conditions include a section on "Copyright", they are amended by deleting the section in its entirety.
4. If supplemental general conditions [4001](#), [4003](#) and [4004](#) are also incorporated in the Contract, the provisions of those supplemental general conditions concerning the ownership of Intellectual Property will prevail in relation to the subject matter of those supplemental general conditions.
5. References in these supplemental general conditions to the Contractor owning the Foreground Information or any rights in it refer to the Contractor, its subcontractors, its suppliers, its agents, its representatives or any of their employees owning such information or rights, as applicable.

**4006 02 (2008-05-12) Records and disclosure of Foreground Information**

1. During and after the performance of the Contract, the Contractor must keep detailed records of the Foreground Information, including details of its creation, ownership and about any sale or transfer of any right in the Foreground Information. The Contractor must report and fully disclose to Canada all Foreground Information as required by the Contract. If the Contract does not specifically state when and how the Contractor must do so, the Contractor must provide this information when requested by the Contracting Authority or a representative of the department or agency for which the Contract is performed, whether before or after the completion of the Contract.
2. Before and after final payment to the Contractor, the Contractor must provide Canada with access to all records and supporting data that Canada considers pertinent to the identification of Foreground Information.
3. For any Intellectual Property that was developed or created in relation to the Work, Canada will be entitled to assume that it was developed or created by Canada, if the Contractor's records do not list that Intellectual Property or do not indicate that it was created by the Contractor, or by someone on behalf of the Contractor, other than Canada.

**4006 03 (2008-05-12) Ownership of Intellectual Property Rights in Foreground Information**

1. All Intellectual Property Rights in the Foreground Information belong to the Contractor as soon as they come into existence.
2. Despite the Contractor's ownership of all the Intellectual Property Rights in the Foreground Information, Canada has unrestricted ownership rights in any prototype, model, custom or customized system or equipment that is a deliverable under the Contract, including manuals and other operating and maintenance documents. This

- includes the right to make them available for public use, whether for a fee or otherwise, sell them or otherwise transfer ownership in them.
3. Any personal information, as defined in the Privacy Act, R.S., 1985, c. P-21, collected by the Contractor in the execution of the Work under the Contract becomes the property of Canada immediately upon collection and must be used only for the performance of the Work. The Contractor has no right in any such personal information.
  4. If the Work under the Contract involves the preparation of a database or other compilation using information or data supplied by Canada and any personal information referred to above, the Intellectual Property Rights in the database or compilation containing such information will belong to Canada. The Contractor's Intellectual Property Rights in the Foreground Information are restricted to those capable of being exploited without the use of the information or data supplied by Canada and the personal information.
  5. The Contractor must maintain the confidentiality of the information or data supplied by Canada and the personal information as required in the General Conditions. The Contractor must return all the information belonging to Canada on request or on completion or termination of the Contract. This includes returning all hard copies and electronic copies as well as any paper or electronic record that contains any part of the information or information derived from it.

**4006 04 (2008-05-12) Licenses to Intellectual Property Rights in Foreground and Background Information**

1. As Canada has contributed to the cost of developing the Foreground Information, the Contractor grants to Canada a license to exercise all Intellectual Property Rights in the Foreground Information for Canada's activities. Subject to any exception described in the Contract, this license allows Canada to do anything that it would be able to do if it were the owner of the Foreground Information, other than exploit it commercially and transfer or assign ownership of it. The Contractor also grants to Canada a license to use the Background Information to the extent that it is reasonably necessary for Canada to exercise fully all its rights in the deliverables and in the Foreground Information.
2. These licenses are non-exclusive, perpetual, irrevocable, worldwide, fully-paid and royalty-free. Neither license can be restricted in any way by the Contractor providing any form of notice to the contrary, including the wording on any shrink-wrap or click-wrap license or any other kind of packaging, attached to any deliverable.
3. For greater certainty, Canada's licenses include, but are not limited to:
  - (a) the right to disclose the Foreground and Background Information to third parties bidding on or negotiating contracts with Canada and to sublicense or otherwise authorize the use of that information by any contractor engaged by Canada solely for the purpose of carrying out such contracts. Canada will require these third parties and contractors not to use or disclose that information except as may be necessary to bid on, negotiate or carry out those contracts;
  - (b) the right to disclose the Foreground and Background Information to other governments for information purposes;
  - (c) the right to reproduce, modify, improve, develop or translate the Foreground and Background Information or have it done by a person hired by Canada. Canada, or a person designated by Canada, will own the Intellectual Property Rights

- associated with the reproduction, modification, improvement, development or translation;
- (d) without restricting the scope of any license or other right in the Background Information that Canada may otherwise hold, the right, in relation to any custom-designed or custom-manufactured part of the Work, to exercise such of the Intellectual Property Rights in the Background Information as may be required for the following purposes:
    - (i) for the use, operation, maintenance, repair or overhaul of the custom-designed or custom-manufactured parts of the Work;
    - (ii) in the manufacturing of spare parts for maintenance, repair or overhaul of any custom-designed or custom-manufactured part of the Work by Canada, if those parts are not available on reasonable commercial terms to enable timely maintenance, repair or overhaul;
  - (e) for Software that is custom designed for Canada, the right to use any source code the Contractor must deliver to Canada under the Contract.
4. The Contractor agrees to make the Background Information, including in the case of Software, the source code promptly available to Canada for any purpose mentioned above. The license does not apply to any Software that is subject to detailed license conditions that are set out elsewhere in the Contract. Furthermore, in the case of commercial off-the-shelf software, the Contractor's obligation to make the source code promptly available to Canada applies only to source code that is within the control of or can be obtained by the Contractor or any subcontractor.

**4006 05 (2008-05-12) Contractor's Right to Grant Licenses**

The Contractor represents and warrants that it has the right to grant to Canada the licenses and any other rights to use the Foreground and Background Information. If the Intellectual Property Rights in any Foreground or Background Information are or will be owned by a subcontractor or any other third party, the Contractor must have or obtain promptly a license from that subcontractor or third party that permits compliance with section 4 or arrange, without delay, for the subcontractor or third party to grant promptly any required license directly to Canada.

**4006 06 (2008-05-12) Waiver of Moral Rights**

If requested by Canada, during and after the Contract, the Contractor must provide a written permanent waiver of moral rights, as defined in the Copyright Act, R.S., 1985, c. C-42, from every author that contributes to any Foreground Information subject to copyright protection that is a deliverable to Canada under the Contract. If the Contractor is an author of the Foreground Information, the Contractor permanently waives the Contractor's moral rights in that Foreground Information.

**4006 07 (2008-05-12) License to Intellectual Property Rights to Canada's Information**

1. Any information supplied by Canada to the Contractor for the performance of the Work remains the property of Canada. The Contractor must use Canada's Information only to perform the Contract.

2. If the Contractor wants to use any information owned by Canada for the commercial exploitation or further development of the Foreground Information, the Contractor must obtain a license from the department or agency for which the Contract is performed. In its request for a license to that department or agency, the Contractor must explain why the license is required and how the Contractor intends to use the information. If the department or agency agrees to grant a license, conditions will be negotiated between the Contractor and that department or agency and may include the payment of a compensation to Canada.

**4006 08 (2008-05-12) Transfer or License of Contractor's Rights**

1. During the Contract, the Contractor must not sell, transfer, assign or license the Foreground Information without first obtaining the Contracting Authority's written permission.
2. After the Contract, if the Contractor transfer ownership in the Foreground Information, the Contractor is not required to obtain Canada's permission, but must notify the department or agency for whom the Contract is performed in writing of the transfer by referring to the serial number of the Contract and its date and by providing details about the transferee, including the conditions of the transfer. The Contractor must ensure that the transfer requires the transferee to notify the Canada of any future transfer. Any transfer must be subject to all Canada's rights to use the Foreground Information.
3. After the Contract, if the Contractor grants a license or any other right (other than a transfer of ownership) to a third party to use the Foreground Information, the Contractor is not required to notify Canada, but the license or right granted must not affect Canada's rights in any way.
4. If the Contractor at any time transfers ownership of or grants rights in the Foreground Information that interfere in any way with Canada's rights to use the Foreground Information, the Contractor must, if requested by Canada, immediately take all steps necessary to restore Canada's rights. If the Contractor is not successful in doing so, within the time reasonably required by Canada, the Contractor must immediately reimburse Canada for all costs Canada incurs to do so itself.

**4006 09 (2008-05-12) Transfer of Intellectual Property Rights upon Termination of the Contract for Default**

1. If Canada terminates the Contract in whole or in part for default, Canada may, by giving notice to the Contractor, require the Contractor to transfer to Canada all the Intellectual Property Rights in the Foreground Information, including the rights owned by subcontractors. In the case of Intellectual Property Rights in the Foreground Information that have been sold or assigned to a third party, the Contractor must pay to Canada on demand, at Canada's discretion, the fair market value of the Intellectual Property Rights in the Foreground Information or an amount equal to the payment received by the Contractor from the sale or assignment of the Intellectual Property Rights in the Foreground Information.
2. In the event of the issuance of a notice under subsection 1, the Contractor must, at its own expense and without delay, execute such documents relating to ownership of the Intellectual Property Rights as Canada may require. The Contractor must, at Canada's expense, provide all reasonable assistance in the preparation of applications and in the prosecution of any applications for registration of any Intellectual Property Rights in any jurisdiction, including the assistance of the inventor in the case of an invention.

**4006 10 (2008-05-12) Products created using the Foreground Information**

If the Contractor uses the Foreground Information to develop any new product or any improvement in any existing product, the Contractor agrees that, if Canada wishes to purchase such new or improved product, the Contractor must sell them to Canada at a discount off the lowest price for which it has sold those products to other customers, to recognize Canada's financial contribution to the development of those products.

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request for Proposal  
W8476-06-MSMP/L

PART 7 – Resulting Contract - Acquisition

#### **ANNEX F - INDUSTRIAL AND REGIONAL BENEFITS REQUIREMENTS**

(TERMS AND CONDITIONS, PLANS, TRANSACTIONS, TABLES,  
CERTIFICATE OF COMPLIANCE, TRANSACTION SHEET, AND  
ENHANCED PRIORITY TECHNOLOGY LIST)

## **TABLE OF CONTENT**

- 1. Definitions**
- 2. IRB Commitments and Responsibilities**
- 3. IRB Reporting**
- 4. Canadian Content Value (CCV)**
- 5. Eligibility Criteria for IRB Transactions**
- 6. Technology and Skills Cooperation**
- 7. Investment in Canada**
- 8. Third Party Investments/Venture Capital Funds for Small Business**
- 9. Investments Made to Consortium**
- 10. Investment Framework (IF)**
- 11. Indirect Transactions**
- 12. Direct IRB Transactions**
- 13. Strategic Plans**
- 14. Discretionary Authority**
- 15. Valid Orders**
- 16. Trading / Mutual Abatement**
- 17. Banking**
- 18. Import Replacement**
- 19. Multipliers**
- 20. World Product Mandate**
- 21. Small and Medium Business**
- 22. Enhanced Priority Technology List**
- 23. Announcements**
- 24. IRB Transaction Alterations**
- 25. Contract Price Changes**
- 26. Verification and Access to Records**
- 27. Over-Achievement of IRB Commitments**
- 28. Failure to Achieve IRB Commitments**
- 29. Right of Set-off**
- 30. Responsibilities of the Parties**
- 31. Dispute Settlement - Resolution of Discrepancies**
- 32. Government Organizations**
- 33. Contingency/Success Fees**
- 34. List of Eligible Parties**
- 35. List of Approved Global Value Chain Platforms**
- 36. Compliance with the Lobbying Act**

## **List of Appendices**

- Appendix 1 – Plans, Transactions and Tables  
Appendix 2 – Certificate of Compliance  
Appendix 3 – IRB Transaction Sheet  
Appendix 4 – Enhanced Priority Technology List  
Appendix 5 – Annual IF Activity Report



## 1. Definitions

1.1 For the purpose of this Part, unless the context otherwise requires, the following definitions apply:

- "Achieve", "Achieved", or "Achievement" in relation to any Commitment for Industrial and Regional Benefits (IRB), means the accomplishment of all or any part of an IRB Commitment;
- "Achievement Period" or "IRB Achievement Period" means the period commencing on June 27<sup>th</sup> 2006 and ending 5 years following the Effective Date of this Contract;
- "Allowable IF Investment" - For cash contributions, an Allowable IF Investment means: a grant; or, a purchase of common or preferred shares. It does not include either the purchase of debentures or a repayable loan. For in-kind contributions, an Allowable IF Investment means: a licence for intellectual property (authorization to use the licensed material); equipment (equipment, software or systems to develop new or improved goods/services); knowledge transfer (lending of an employee to provide technical or managerial know-how); or, marketing and sales support (lending of an employee to undertake marketing/sales activities and share market intelligence; or, a licence for brand or trademarks);
- "Banked IRB Transaction" means an IRB Transaction that resides in the IRB Bank that has been approved in writing by the IRB Authority and has met the IRB Eligibility Criteria of Causality, Incrementality, Canadian Content Value and Eligible Party;
- "Canadian Company" or "Canadian Corporation" means a commercial enterprise that is resident and operating in Canada and incorporated, registered or recognized as such, under federal or provincial legislation and which has ongoing business activities in Canada;
- "Canadian Content Value" or "CCV" is as described in Article 4, Canadian Content Value;
- "Capitalization" means the total value of a company's issued shares plus the value associated with instruments which can be converted into shares. For publicly traded companies, this is equal to the total number of issued shares multiplied by the market price plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles. For privately held companies, this is equal to the total number of issued shares multiplied by the most recent price at which they were sold plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles;
- "Causality" means the criteria of the IRB Policy which stipulates that a proposed work package or "IRB Transaction" was brought about by an IRB Obligation to Canada as set forth in Article 5, Eligibility Criteria for IRB Transactions;
- "Commercialization Activity" means a process through which economic value is extracted from knowledge through the production and sale of new or significantly improved goods and services. It can also include advertising, sales promotion and other marketing activities. Specific commercialization activities consist of: business and market planning; project feasibility studies; identifying customer needs; market

engagement and testing; basic and applied research; experimental development; profitability analysis and financing; and, launch advertising;

- "Commitment" or "IRB Commitment" means the Contractor's contractual obligation to achieve the CCV for IRB Transactions as set forth in Article 2, IRB Commitments and Responsibilities;
- "Consortium" of Consortia" means a public-private partnership established with the intent of undertaking activities related to research and development, and which must meet the criteria set out in Article 9, Investments made to Consortium;
- "Designated Regions of Canada" means the following regions which have been designated by the Government of Canada for socio-economic purposes: the Atlantic Region (consisting of the Provinces of Newfoundland and Labrador, Prince Edward Island, New Brunswick and Nova Scotia); the Quebec Region (consisting of the Province of Quebec); the Northern Ontario Region (consisting of that part of the Province of Ontario northward from the southern limits of Nipissing and Parry Sound Districts and west of the Ottawa River); the Southern Ontario Region (consisting of that part of the Province of Ontario that is not included in Northern Ontario); and the Western Region (consisting of the Provinces of Manitoba, Alberta, Saskatchewan, and British Columbia);
- "Direct IRB Transaction", "Direct" or "Direct IRB" means an IRB Transaction that is entered into for the performance of any part of the Work under this Contract, and includes work on approved Global Value Chain (GVC) platforms as defined in Article 12;
- "Eligibility Criteria" means those criteria, as defined in Article 5, Eligibility Criteria for IRB Transactions, which a proposed IRB Transaction must meet in order to be accepted by the IRB Authority;
- "Eligible Party" means the provider of the IRB, and consists of: the Contractor, its parent corporation, and all its subsidiaries, divisions and subdivisions; and first tier suppliers related to the performance of any part of the Work under this Contract. Canadian companies (including first-tier suppliers) with less than 500 employees, will not be accepted as Eligible Parties unless otherwise approved by the IRB Authority;
- "Enhanced Priority Technology List" or "EPTL" refers to the list attached as Appendix 4 which identifies the technologies required by Canada that meet the long-term needs of the Department of National Defence;
- "Global Value Chain" means a platform which is similar to the platform being proposed for the Standard Military Pattern component of the MSVS Project, have a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Standard Military Pattern component of the MSVS Project and offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities;
- "IF Business Plan" means a complete and well-supported plan which: includes an executive summary; provides detailed company information and financial statements; describes the proposed IF project; details the specific IF activities, goals and duration; and, includes key market, risk and due diligence considerations;

- "Import Replacement" refers to the production/manufacture of a good or the provision of a service in Canada that was formerly manufactured or provided from off-shore sources of supply;
- "Incrementality" refers to the Eligibility Criteria outlined in Sub-article 5.4, Eligibility Criteria for IRB Transactions which stipulates that an indirect IRB activity must include new work, over and above a baseline of similar previous business activity undertaken by the Contractor with the recipient;
- "Indirect IRB Transaction", "Indirect", or "Indirect IRB" means an IRB Transaction that is entered into for a business activity unrelated to the performance of any part of the Work under this Contract;
- "Industrial and Regional Benefit" or "IRB" or "IRB Transaction" means a commercial or business activity that is carried out by means of a contract, including any purchase order, sales agreement, license agreement, letter of agreement or other similar instrument in writing, that has an identified dollar value, meets the Eligibility Criteria set forth in this Contract and has been approved by the IRB Authority;
- "Investment Framework" or "IF" - means the method of assessing, valuing and calculating IRB credits associated with innovation-related investments made directly with Canadian SMB, as outlined in Article 10;
- "IRB Authority" means the Minister of Industry or any other person designated by the Minister of Industry to act on the Minister's behalf. The IRB Authority is responsible for evaluating, monitoring, verifying and accepting IRB, and for assessing the Contractor's IRB performance under this Contract;
- "IRB Credit" or "Credit" in relation to any IRB Commitment, means the Written Notice by the IRB Authority that an IRB has been achieved in whole or in part and that the Contractor's obligation has to that extent been fulfilled;
- "IRB Investment" means an IRB Transaction which consists of an investment within Canada of a verifiable amount of money which fosters the production of goods or the performance of services by Canadian citizens or permanent residents as defined in the Immigration and Refugee Protection Act 2001, c.27, and which will meet the criteria set forth in Article 7, Investment in Canada;
- "IRB Plans" means the Contractor prepared IRB Plans attached at Appendix 1 which form part of this Contract;
  - IRB Management Plan, dated (to be inserted at contract award) bearing reference number W8476-06-MSMP/L;
  - IRB Regional Development Plan, dated (to be inserted at contract award), bearing reference number W8476-06-MSMP/L; and
  - Small and Medium Business Development Plan, dated (to be inserted at contract award), bearing reference number W8476-06-MSMP/L;
- "IRB Reporting Period" or "Reporting Period" means: Period 1, commencing on the first day of the IRB Achievement Period and ending on the last day of the twelfth month after the Effective Date and a consecutive twelve month increment following Period 1 (Periods 2,3, etc) until the end of the IRB Achievement Period;

- “Major Obligor” means a company which holds contractual commitments for IRB Obligations in Canada in excess of \$1 billion;
- “Mutual Abatement” or “IRB Swap” means a reduction of the Contractor’s IRB Obligation in exchange for the reduction of a Canadian company’s obligations to a foreign offset authority;
- “Over-achievement” in relation to any IRB Commitment, means the degree or amount by which the Contractor’s IRB Credit measured in terms of CCV, granted during the IRB Achievement Period for an IRB Transaction is greater than the IRB Commitment for that IRB Transaction;
- “Pooling” refers to combining IRB Obligations so that an IRB credit achieved on a single IRB Transaction may be applied over several discrete IRB Obligations;
- “Research and Development (R&D) activity” means a scientific investigation that explores the development of new goods and services, new inputs into production, new methods of producing goods and services, or new ways of operating and managing organizations. Specific R&D activities consist of: standard test/measurement/analysis; test/measurement/analysis report; specific thermo-mechanical analysis methodology development projects; product/process design/engineering; customized product/process/ technology development project; related evaluation and feasibility studies; applied research projects for new product concepts, new technology platforms and new test/measurement/analysis; basic scientific research for creating better understanding and insights in new phenomena; research to advance scientific knowledge with or without a specific practical application in view; and support work in engineering, design, operations research, mathematical analysis, computer programming, data collection, testing or research;
- “Shortfall” in relation to any IRB Commitment, means the CCV amount by which the Contractor fails to achieve its Commitment in the IRB Reporting Periods;
- “Small and Medium Business” or “SMB” means a Canadian-based, independently-owned and operated manufacturer or service company with fewer than 250 full-time personnel as of the date of entering into an eligible IRB Transaction. Agents and distributors of foreign goods and services as well as subsidiaries of large firms do not qualify as Small and Medium Business;
- “Semi-processed Goods” means goods converted from their natural state of a raw material through the use of a specialized process into a state of readiness for use or assembly into a final product;
- “Strategic Plan” means a document which describes the Contractor’s broad corporate business development plans for Canada and how these plans may translate into strategic IRB activities, as set forth in Article 13, Strategic Plans;
- “Technology Cooperation,” “Technology and Skills Cooperation”, “IRB Technology Cooperation” and “Technology Transfer” consists of the granting of a license, and the transmission of a usable body of knowledge to a Canadian company. Technology Cooperation has no imputed value based on development, but is measured in CCV of future sales resulting from the cooperation output by the IRB Recipient and must meet the criteria set forth in Article 6, Technology and Skills Cooperation;

- "Venture Capital Fund" or "VCF" means a pooled group of investments directed at assisting the growth of Canadian Small Businesses and which is managed by a third party and which will meet the criteria set forth in Article 8, Third Party Investments/Venture Capital Funds for Small Business;
- "World Product Mandate" means a long term supplier relationship between the Contractor or an Eligible Party and a Canadian company whereby the Canadian company has been legally authorized to carry out and has sole responsibility for specific activities including the design, development, intellectual property, manufacture and marketing related to the supply of products, components, modules or services destined for the domestic and world markets. The CCV of the product is calculated as described in Article 20, World Product Mandate.

## **2. IRB Commitments and Responsibilities**

- 2.1 Through the implementation of the IRB Management Plan, the Regional Development Plan and the Small and Medium Business Development Plan detailed in Appendix 1 to Annex F, the Contractor must by the end of the Achievement Period:
- 2.1.1 achieve \$(to be inserted from Contractor's proposal - at least 100% of contract value) in CCV as Direct and Indirect IRB Transactions as specified in Appendix 1 of Annex F;
  - 2.1.2 achieve \$(to be inserted from Contractor's proposal) in CCV as Direct IRB Transactions related to the Standard Military Pattern component of the MSVS Project as specified in Appendix 1 to Annex F;
  - 2.1.3 achieve \$(to be inserted from Contractor's proposal) in CCV as Indirect IRB Transactions related to the Standard Military Pattern component of the MSVS Project as specified Appendix 1 to Annex F;
  - 2.1.4 achieve \$ (to be inserted from Contractor's proposal) in CCV, as Direct and Indirect IRB Transactions in the regions of Canada, as specified Appendix 1 of Annex F, as follows:
    - 2.1.4.1 Atlantic \$(to be inserted from Contractor's proposal);
    - 2.1.4.2 Quebec \$(to be inserted from Contractor's proposal);
    - 2.1.4.3 Northern Ontario \$(to be inserted from Contractor's proposal);
    - 2.1.4.4 Ontario (excluding Northern Ontario) \$(to be inserted from Contractor's proposal);
    - 2.1.4.5 West \$ (to be inserted from Contractor's proposal);
    - 2.1.4.6 Unallocated \$(to be inserted from Contractor's proposal);
    - 2.1.4.7 achieve \$ (to be inserted from Contractor's proposal) in CCV for Direct and Indirect Small and Medium Business Development IRB Transactions as specified in Appendix 1;
    - 2.1.4.8 achieve \$ (to be inserted from Contractor's proposal) in CCV, as Direct and Indirect IRB transactions, in technology areas related to the Enhanced Priority Technology List (EPTL), attached as Appendix 4; and
    - 2.1.4.9 carry out each and every IRB Transaction as per the IRB Transaction Sheets attached at Appendix 1.
- 2.2 The Contractor must identify Unallocated IRB valued at \$ (to be inserted from the Contractor's proposal) and to achieving these within the IRB Achievement Period. As new and/or unallocated IRB Transactions are identified by the Contractor and approved by the IRB

Authority, the Direct, Indirect, Regional, Small and Medium Business and EPTL IRB Commitments in Clauses 2.1.2, 2.1.3, and 2.1.4 will be adjusted as applicable.

- 2.3 The Contractor must submit to the IRB Authority, one (1) year after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV (Tranche 2).
- 2.4 The Contractor must submit to the IRB Authority, three (3) years after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV (Tranche 3).
- 2.5 As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the Annual IRB Reports, a Certificate of Compliance, as set forth in Appendix 2 to Annex F to the MSVS-SMP Acquisition Contract, signed by the senior company Comptroller in respect of each IRB Transaction for which there was activity in that IRB Reporting Period. This Certificate of Compliance also covers those IRB achievements of the Contractor's sub-contractors and/or its Eligible Parties.

### **3. IRB Reporting**

- 3.1 The Contractor must submit the annual IRB Reports, the Tranche 2 and Tranche 3 IRB Reports IAW Annex B – Statement of Work, Appendix BE – Contract Data, CDRL/DID SMP IRB-001, IRB-002 and IRB-003 - IRB Report, and Appendix 3 of Annex F.

### **4. Canadian Content Value (CCV)**

- 4.1 The CCV of any Direct and Indirect Transaction will be determined by the Net Selling Price Method or the Cost Aggregate Method.
  - 4.1.1 Net Selling Price Method: A product which bears a substantiated selling price may have its CCV determined as follows:
    - 4.1.1.1 the Net Selling Price is that total selling price of the product, less the applicable customs duties, excise taxes and applicable GST, HST and all provincial sales taxes; and
    - 4.1.1.2 the CCV is the Net Selling Price less any costs incurred as set out in Clause 4.3.
- 4.2 Cost Aggregate Method: for any product, service or activity which cannot be assigned a substantiated selling price, the CCV will be the aggregate of the following:
  - 4.2.1 the cost of parts produced in Canada, and the cost of materials to the extent that they are of Canadian origin, that are incorporated in the equipment in the factory of the manufacturer in Canada, including parts or materials to the extent that the IRB Authority can verify that they are of Canadian origin and have been exported from Canada and subsequently imported into Canada as parts or finished goods;
  - 4.2.2 transportation costs, including insurance charges incurred in transporting parts and materials from a Canadian supplier or frontier port of entry to the factory of the manufacturer in Canada for incorporation in the equipment, to the extent that such costs are not included in the foregoing paragraph; and

4.2.3 such part of the following costs, exclusive of GST, HST, all provincial sales taxes, excise taxes, royalties and license fees paid outside of Canada, as are reasonably attributable to the production or implementation of the equipment, service or activity:

- 4.2.3.1 wages and salaries paid for direct and indirect production and non-production labour in Canada paid to Canadians or to permanent residents as defined in the Immigration and Refugee Protection Act 2001, c.27;
- 4.2.3.2 materials used in the Work but not incorporated in the final products;
- 4.2.3.3 light, heat, power and water;
- 4.2.3.4 workers compensation, employment insurance and group insurance premiums, pension contributions and similar expenses incurred with respect to labour referred to above in sub-paragraph 4.2.3.1;
- 4.2.3.5 taxes on land and buildings in Canada;
- 4.2.3.6 fire and other insurance premiums relative to production inventories and the production plant and its equipment, paid to a company authorized by the laws of Canada or any province to carry on business in Canada or such province;
- 4.2.3.7 insurance purchased specifically from a company authorized by the laws of Canada or any province to carry on business in Canada or such province;
- 4.2.3.8 rent of factory or office premises paid to a registered owner in Canada;
- 4.2.3.9 maintenance and repairs to buildings, machinery and equipment used for production purposes that is executed in Canada;
- 4.2.3.10 tools, dies, jigs, fixtures and other similar plant equipment items of a non-permanent nature that have been designed, developed or manufactured in Canada;
- 4.2.3.11 engineering and professional services, experimental work and product or process development work executed and completed in Canada;
- 4.2.3.12 pertinent miscellaneous factory and office expenses, such as administrative and general expenses, including profits earned in Canada, depreciation with respect to production machinery and permanent plant equipment and the installation costs of such machinery and equipment; and a capital allowance not exceeding five per cent of the total capital outlay incurred for buildings in Canada owned by the producer of the work;
- 4.2.3.13 fees paid for services not elsewhere specified; and
- 4.2.3.14 pre-tax net profit upon which Canadian taxes are paid or are payable.

4.3 Costs or Business Activities that are ineligible for IRB Credit:

- 4.3.1 the value of materials, labour and services imported into Canada;

- 4.3.2 in the case of Indirect IRB, the value of raw materials and semi-processed goods exported from Canada;
- 4.3.3 the value of any living, relocation costs and remuneration paid to non-Canadians for work on the Project;
- 4.3.4 the amount of all Canadian Excise Taxes, Import Duties, Federal and Provincial Sales Taxes, Goods and Services Taxes, Harmonized Sales Taxes and other Canadian duties;
- 4.3.5 the value of goods and services with respect to which credit has been received or is being claimed by the Contractor or its Eligible Parties as an IRB to Canada under any other IRB agreement;
- 4.3.6 any proposal or bid preparations costs;
- 4.3.7 all transportation costs not covered under Clause 4.2.2;
- 4.3.8 obligations of the Federal Government e.g. government furnished equipment;
- 4.3.9 licence fees paid by the Canadian IRB recipient and any on-going royalty payments;
- 4.3.10 IRB Transactions claimed by a Contractor that pertain to its influence or that of one of its Eligible Parties over their own country's Purchasing Agent/Department or the Purchasing Agent/Department of another country;
- 4.3.11 interest costs associated with Letters of Credit or other financial instruments to support IRB Investments;
- 4.3.12 any fees paid to Lobbyists (as defined by the *Lobbying Act*); and
- 4.3.13 fees paid to third-party consultants or agents for work related to gaining IRB Credit against this Contract. This includes, but is not limited to, providing advice on the IRB Policy, preparation of IRB transactions and/or reports, representing the interests of the Contractor to the IRB Authority, and/or searching for potential recipient firms.

## **5. Eligibility Criteria for IRB Transactions**

- 5.1 General:** Wherever possible, the IRB Authority will confirm IRB eligibility prior to a proposed IRB Transaction being accepted into the contract.
  - 5.1.1 The IRB Authority reserves the right to validate IRB eligibility for any or all IRB Transactions identified in Appendix 1 to Annex F within one year of Contract Award. The IRB Authority shall submit to the Contractor within one (1) year of Contract Award a written notice of the IRB Transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have sixty (60) calendar days to submit a package in support of their IRB eligibility claims.
  - 5.1.2 Should the Contractor be unable to satisfy the IRB Authority that the IRB Transaction has met the Eligibility Criteria, future IRB Credits will not be granted and a substitute IRB Transaction will be sought from the Contractor.
  - 5.1.3 Contractors should note that all IRB Transactions are subject to annual reporting and verification before IRB credits are confirmed. Should new information arise during verification



- that seriously calls in to question the eligibility of an IRB Transaction, the IRB Authority will review and investigate as soon as possible.
- 5.2 **Causality** - each IRB Transaction shall be one which was clearly and demonstrably brought about by either the Contractor or one of the Contractor's Eligible Parties as a result of a current or anticipated IRB Obligation to Canada. It shall not be one which probably would have been entered into if an IRB obligation had not existed. Causality may be demonstrated to a specific project or more broadly to a company's IRB obligation in general.
- 5.2.1 The responsibility for demonstrating causality lies with the Contractor or its Eligible Party, not the IRB Recipient.
- 5.2.2 Given the large volume of defence procurements, Contractors and their Eligible Parties are often engaged in IRB planning and execution on several projects with IRB obligations. Therefore, causality may be demonstrated to a specific project or more broadly to a company's IRB obligations in general.
- 5.2.2.1 The Contractor or its Eligible Party must demonstrate causality beyond generic statements on the transaction sheet. They should provide a clear statement on Causality, which outlines the details involved in their decision about a procurement or investment activity.
- 5.2.2.2 As IRB activities should make good business sense to the Contractor or Eligible Party, the causality provision does not require that the IRB obligation be a company's only decision-making factor. However, the Contractor or its Eligible Party must show the link between Canada's IRB Policy and their decisions related to the IRB activity.
- 5.2.2.3 As further demonstration of Causality to this Contract, the IRB Authority's written approval for a proposed IRB Transaction shall be obtained prior to the Contractor, on behalf of itself, its Eligible Parties and Canadian recipients, making public announcement, media or press releases related to the proposed business activities. Failure to do so may result in the rejection of the business activity as an IRB under the Contract.
- 5.2.3 The Contractor or its Eligible Parties must provide clear evidence of causality. Failure to provide sufficient evidence of causality will result in the ineligibility of the IRB Transaction.
- 5.2.3.1 Evidence of Causality includes a history of events in the development of an IRB Transaction and any supporting written documentation. The Contractor or its Eligible Party should provide as much detailed supporting documentation as possible at the time of the IRB Transaction submission that supports the statement on Causality. This documentation may include but not be limited to: internal emails, official correspondence, meeting notes, corporate presentations, etc. The IRB Authority seeks documentary evidence that links decisions regarding the IRB transaction to the donor's IRB obligation.
- 5.3 **Timing** - IRB Transactions must be implemented within the Achievement Period. IRB Transactions or substitute IRB Transactions identified after the Effective Date will only be accepted provided the activity meets the IRB Eligibility Criteria and does not occur prior to the date of identification of the IRB Transaction.
- 5.4 **Incrementality** - where an Indirect IRB Transaction is for the purchase of goods or services from a Canadian source, such goods and services will be similar to those that the purchaser had acquired in Canada prior to the date of identification of the IRB Transaction.

5.4.1 The CCV of the IRB Transaction will be determined only with respect to the increase that the IRB Transaction will provide over the average amount of orders placed by that purchaser for those goods or services from the Canadian source during the three years preceding the date of identification of the IRB Transaction.

5.5 **Eligible Party** - IRB Transactions must be undertaken by an Eligible Party as defined in this Contract. In any case, the Contractor shall be 100% responsible for IRB Commitments, regardless of flow down to Eligible Parties. A list of approved Eligible Parties for the Contract is found in Article 34.1.

## 6. Technology and Skills Cooperation

6.1 In order to qualify as a technology and skills cooperation IRB Transaction, the activity must meet the following criteria:

- 6.1.1 technology must be in a form that is sufficiently complete to allow the Canadian recipient to apply the knowledge to existing or new products or processes;
- 6.1.2 technology must be proprietary, current and equivalent to or better than that used on the Project;
- 6.1.3 all required licenses or permits to facilitate the sale of products/services domestically or for export must be included;
- 6.1.4 the transferor must make available all engineering and technical advice and assistance required to exploit and keep current the transferred technology and all related information (drawings, methods of application, etc.);
- 6.1.5 the Canadian company must have access to domestic and foreign markets and have the resources to exploit the technology in these markets; and
- 6.1.6 the technology must be exploitable in terms of the capability (financial and technical) of the Canadian company to use and keep it current.

6.2 The Contractor must make available, upon request by the IRB Authority, the licensing agreement with the Canadian recipient. Failure to do so will result in the technology and skills cooperation IRB Transaction being rejected.

6.3 The technology and skills cooperation must be measured in Canadian Content Value of the future sales, export sales or import replacement, of goods or services by the Canadian company as a result of the technology and skills cooperation. In addition, the Contractor may be credited for reasonable costs incurred as a result of the technology and skills cooperation once the achievement in future sales surpasses the cost of the technology and skills cooperation. Reasonable costs incurred include:

- 6.3.1 training costs;
- 6.3.2 set-up of infrastructure needed to exploit the technology; and
- 6.3.3 any others as deemed reasonable by the IRB Authority.

6.4 IRB in the form of technology and skills cooperation with Canadian companies may include activities such as:

- 6.4.1 participation in the design, development and manufacture of new or improved systems;
  - 6.4.2 the provision of new process technologies that will enhance Canadian industry by improving their capabilities in present product lines and enhance their export potential; and
  - 6.4.3 the provision of licences which will allow Canadian companies to manufacture new or existing components of major systems for export sale and import replacement.
- 6.5 All costs to develop the technology will be ineligible for IRB credit.

## **7. Investment in Canada**

- 7.1 IRB can be derived from activities such as investment in Canada. These investments must meet the IRB Eligibility Criteria and must be made directly by the Contractor or its Eligible Party and placed directly with a Canadian recipient.

- 7.1.1 The Contractor will be credited the CCV of future sales resulting from the specific investment, and the amount of the investment, once the Achievement surpasses the amount of the initial investment. The credited future sales will be prorated by multiplying the applicable sales to the ratio of the Contractor's own direct investment in the company relative to that company's Capitalization at the time the investment was made once the accepted IRB credits surpasses the amount of the total investment.

Credited Future Sales =

Applicable Sales X  $\frac{\text{Contractor's own direct investment in Canadian Recipient}}{\text{Canadian Recipient's Capitalization at the time the investment was made}}$

- 7.2 The investment must be for the purchase of equity such as common shares or preferred shares. Use of the investment to purchase debentures is not permitted.
- 7.3 The investment made by the Contractor or its Eligible Parties will remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the investment is placed with the recipient. Failure to do so will result in the immediate clawback of all IRB approved credits for the IRB Transaction by the IRB Authority. No further IRB credits will be approved for that particular transaction.
- 7.4 In the event the Contractor or an Eligible Party invests in its own Canadian facilities, the investment and the incremental sales resulting from that investment are eligible for IRB credit, assuming the investment itself is causal to the IRB obligations of the Contractor or Eligible Party. This is also provided that the investment results in a net benefit to Canada and that the transaction does not result in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada.
- 7.5 The capital associated with the purchase of a Canadian company that is considered a "going concern" is not an eligible investment for IRB purposes. If the investment is for a Canadian company that has declared bankruptcy, then the investment can be counted for IRB purposes.
- 7.6 Investment transactions may include:

- 7.6.1 the establishment or enhancement of a Canadian facility or project which will develop Canada's advanced technology industries, and provide a capability that does not already exist in Canada. Consideration on the eligibility of the proposed IRB transaction will also be based on whether the transaction results in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada; or
- 7.6.2 the development of joint ventures with Canadian firms, which will contribute to their long-term viability and increase sales in both domestic and international markets.

## **8. Third Party Investments/Venture Capital Funds for Small Business**

- 8.1 In any instance where the Contractor or its Eligible Party is not placing an investment directly with a Canadian recipient, and is utilizing a third party to manage such investments, the method of crediting such investments will be as detailed in this Clause. Any organization which manages investments such as, but not limited to Banks, Trust Companies, Venture Capital Funds, and Investment Companies, will not be an Eligible Party to the Contract, but will be deemed a third party. A portion of a Contractor's investment may come from the placement of funds into a Venture Capital Fund (VCF) directed at assisting the growth of Canadian small businesses through their development and exploitation of new technologies. The multiplied IRB credit related to these investments will not exceed 5% of the IRB Commitment Value. Contributions in support of Canadian small business are permitted within the following parameters:

### **8.1.1 Timing**

#### **8.1.1.1 IRB credit can be claimed when:**

- 8.1.1.1.1 the Contractor makes a financial contribution to a qualifying VCF. Only the face value of the contribution, measured in Canadian dollars, can be sought as an IRB at this time; and,
- 8.1.1.1.2 the VCF Manager invests funds with a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. Failure to do so will result in the immediate clawback of all IRB credits claimed or approved for the IRB Transaction by the IRB Authority.

- 8.1.2 All VCF related IRB credits claimed by the Contractor are subject to verification and approval by the IRB Authority before IRB credits are accepted.

## **8.2 Scope**

- 8.2.1 Privately held small business recipients of the VCF investment will have 50 employees or less (service based industries) or 100 employees or less (manufacturing based industries) at the commencement of the investment.
- 8.2.2 Initial investments by the VCF Manager, including co-investments, in eligible small businesses cannot exceed \$1M.

8.2.3 Small business recipients will generally be involved in the development, manufacture or commercialization of a technologically advanced product or service in one of the following sectors:

- 8.2.3.1 Life sciences (biotechnology, medical devices and pharmaceuticals)
- 8.2.3.2 Health
- 8.2.3.3 Advanced materials
- 8.2.3.4 Advanced manufacturing
- 8.2.3.5 Environment
- 8.2.3.6 Information and communications technologies, and
- 8.2.3.7 Aerospace and defence

8.2.4 Only Canadian registered and managed VCFs which support the above industrial sectors will be acceptable. The Contractor will have to provide evidence that a high percentage of a chosen fund's investment activity is with companies that are in the above sectors.

### 8.3 Multiplier for IRB Credit Purposes

8.3.1 The multiplier for IRB credit purposes is 5:1. The IRB credit will be given for the initial contribution at the time of the deposit to the VCF by the Contractor. The IRB credit that makes up the remaining multiples will be offered when the VCF Manager assigns the funds to a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. The maximum multiplied IRB credit for the Project is 5% of the IRB Commitment Value.

### 8.4 Limitation to Third Party Investments/Venture Capital Funds for Small Business

8.4.1 Once a small business reaches the Initial Public Offering stage, no further IRB credit will be granted by the IRB Authority for further VCF investment to the Canadian small business.

### 8.5 Performance Guarantees

8.5.1 IRB Transaction sheets related to qualifying VCF transactions are stated in the multiplied value of the proposed contributions to the VCF. This multiplied value is part of the Contractor's total IRB commitment, and as such is subject to the performance guarantees stipulated in this Contract.

8.5.2 If the Contractor fails to achieve an approved IRB Transaction involving a VCF, the full "multiplied" value of its IRB Commitment must be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not be subject to the multiplier.

## 9. Investments Made to Consortium

9.1 In any instance where the Contractor or its Eligible Party invests in research and development through a consortium, the method of crediting such investments will be as detailed in this Clause. A consortium will consist of an association of the following: the Contractor or its Eligible Party, a minimum of one (1) Canadian company and a minimum of one (1) Canadian post-secondary institution or not for profit research institution. Investments will be permitted in the form of cash donations as well as in-kind contributions.

9.1.1.1 IRB credit can be claimed when:

9.1.1.1.1 the Contractor makes a financial contribution to a qualifying consortium; and,

9.1.1.1.2 the Consortium partner(s) make their contribution the consortium.

9.1.1.2 All Consortia related IRB credits claimed by the Contractor are subject to annual reporting and verification and approval by the IRB Authority before IRB credits are approved.

9.1.2 Scope

9.1.2.1 A Consortium will be considered as an association between the Contractor(s), Canadian company(s) and Canadian research institute(s). The association will consist of a minimum of:

9.1.2.1.1 the Contractor or its Eligible Party; and,

9.1.2.1.2 a minimum of one (1) publicly or privately owned Canadian company; and,

9.1.2.1.3 a minimum of one (1) post-secondary or public research institution.

9.1.2.2 Involvement of non-Canadian company(s) in the consortia will be permitted. The combined total investment from foreign sources must not exceed fifty (50) percent of the Consortium value.

9.1.2.3 The Contractor will not be able to claim its Consortium partner(s) as Eligible Parties to this Contract. In cases where an existing Eligible Party to the Contract participates in a Consortium, a separate IRB Transaction Sheet must be submitted that describes the Eligible Parties' involvement in the Consortium to claim credits for contributions leveraged by the Eligible Party. At no time will the Contractor and Eligible Party be able to claim for the same contributions.

9.1.2.4 In addition to demonstrating Causality, the Contractor will be responsible for demonstrating how its involvement in the Consortium leveraged the investments from the other parties involved.

9.1.2.5 The Contractor may choose to invest in an existing Consortium and will be credited for its investment into the Consortium. In order to receive credit for funds invested by other companies, the Contractor must demonstrate that the additional funds invested into the Consortium were the result of the Contractor's participation. The Contractor will not receive credit for funds already existing in the Consortium prior to their participation.

- 9.1.2.6 The Contractor will not be eligible to claim IRB credit on any funds leveraged by other parties and applied to other IRB obligations. In cases where multiple contractors with IRB obligations are involved in a Consortium, each of these contractors may be eligible to receive IRB credit for their own contribution and that of the partners they attract to the Consortium.
- 9.1.2.7 Contributions to the Consortium may take the form of in-kind donations. These donations will not be eligible for a multiplier. In the case of equipment, tools and other final goods, credit for these will be given based on an assessment to be undertaken by a Third Party to this Contract solely at the cost of the Contractor. Donations that cannot be assessed by a Third Party may be credited for reasonable costs incurred. The costs of these assessments will not be eligible for IRB Credit.
- 9.1.2.8 The future sales that may arise from the Consortium will not be considered for IRB Credit under this Clause. Should the Contractor procure goods and services from the Consortium, the purchase will be considered as a separate IRB Transaction. No multiplier will be applied to these future sales.
- 9.1.3 Multiplier for IRB Credit Purposes
  - 9.1.3.1 The multiplier for IRB credit purposes will be credited as follows. An initial value will be the sum of the following:
    - 9.1.3.1.1 the value of cash contributions from the Contractor to the Consortium; and
    - 9.1.3.1.2 the value of cash contributions from other eligible participants, leveraged by the Contractor's participation in the Consortium, up to a maximum value equal to that of the Contractor's contribution.
  - 9.1.3.2 However, the following will not be eligible for IRB Credit:
    - 9.1.3.2.1 contributions from post-secondary institutions and not-for-profit research and development institutions will not be counted towards the Contractor's obligations; and
    - 9.1.3.2.2 direct contributions from all levels of government into the Consortium.
  - 9.1.3.3 Once an initial value is established, the Contractor will receive a five (5) times multiplier on the initial value.
  - 9.1.3.4 When a Consortium IRB Transaction is submitted, the Contractor must identify the manner that it proposes to calculate the regional distribution. The Contractor may opt to make regional commitments based on where funding for the Consortia originates as a proportion of the total Canadian funding. Alternatively, the Contractor may opt to make regional commitments based on where the work associated with the Consortium is taking place. In either situation, once a Contractor selects a regional calculation, the Contractor will be held to this selection.

#### 9.1.4 Performance Guarantees

- 9.1.4.1 IRB Transaction sheets related to qualifying Consortium transactions are stated in the multiplied value of the proposed contributions to the Consortium. This multiplied value is part of the Contractor's total IRB commitment, and as such is subject to the performance guarantees stipulated in this Contract.
- 9.1.4.2 If the Contractor fails to achieve an approved IRB Transaction involving a Consortium, the full "multiplied" value of its IRB Commitment will be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not automatically be subject to a multiplier.

### 10.0 Investment Framework (IF)

- 10.1 IRB Transactions may involve R&D or commercialization investments made directly with a Canadian SMB. The methods of assessing, valuing and crediting these investments are detailed in this clause.
- 10.2 Proposed IF activities will be reviewed, approved and awarded by the IRB Authority using the following gate process:
  - Gate 1 - Term Sheet Eligibility
  - Gate 2 - Investment Valuation
  - Gate 3 - Determination of IRB Credits and Transaction Sheet Approval
  - Gate 4 - Monitoring and Award of IRB Credit
- 10.2.1 Gate 1, Term Sheet Eligibility - Proposed IF activities must meet all six of the following eligibility criteria:
  - 10.2.1.1 Investment must be linked to research and development (R&D) and/or commercialization activities, as defined in this Contract;
  - 10.2.1.2 Investment must be with a Canadian SMB, as defined in this Contract;
  - 10.2.1.3 Investment must meet the IRB Eligibility Criteria, as defined in this Contract;
  - 10.2.1.4 Investment must be an Allowable IF Investment, as defined in this Contract;
  - 10.2.1.5 IF activity must have a duration of at least five (5) continuous years, beginning at the date the investment is made; and,
  - 10.2.1.6 A complete IF Business Plan, as defined in this Contract, must be submitted to the IRB Authority.
- 10.2.2 Gate 2, Investment Valuation – Eligible IF activities will be valued, using the following methods:
  - 10.2.2.1 Eligible cash investments will be taken at face value.
  - 10.2.2.2 Eligible in-kind investments will be valued by an independent third party who possesses a Chartered Business Valuator designation (or other similar designation) and who complies with all by-laws, code of ethics and practice standards of the organizational body governing their profession. Valuation reports will be detailed and comprehensive and use



## Industrial and Regional Benefits Requirements

all standard, generally-accepted report formats and valuation approaches and arrive at one conclusion regarding valuation which balances all three approaches. The Contractor or its Eligible Party will assume all costs associated with obtaining the valuation report. The valuation report is valid for 12 months.

10.2.3 Gate 3, Determination of IRB Credits – The following multipliers will be applied to the value of the eligible IF investment:

10.2.3.1 Cash for R&D activities; or, License for IP – nine (9)

10.2.3.2 Cash to purchase, or in-kind transfer of, Equipment – seven (7)

10.2.3.3 In-kind transfer of Knowledge and/or Marketing/Sales Support – four (4)

10.2.4 Gate 4, Monitoring and Award of IRB Credits –

10.2.4.1 The multiplied IRB credits resulting from an IF activity will be awarded along the following timeline:

- 50 percent up front, once the investment activity is made according to the business plan, reported to the IRB Authority, and verified by the IRB Authority;
- 50 percent apportioned over the remaining years of the IF project, as annual IF reporting requirements are met.

10.2.4.2 The Contractor will be deemed as having met each year's annual IF reporting requirements once the Contractor:

- reports on its IF activities through the established IRB Annual Reporting requirements outlined in Article 3, "IRB Reporting";
- includes in its IRB Annual Report each year a specific and complete IF activity report, using the template provided at Appendix 5 to Annex F of this contract, "Annual IF Activity Report."

10.3 The total issued IRB credits associated with IF activities cannot exceed five (5) percent of the total IRB obligation value in this Contract, as identified in Article 2.1.1.

10.4 The investment must be made within 12 months from the date of either: the final transaction approval from the IRB Authority (cash); or, the third party valuation report (in-kind).

10.5 The investment must remain with the SMB for at least five (5) continuous years and be used for the purposes outlined in the Business Plan.

10.6 IRB credits may be disallowed or revoked by the IRB Authority in any of the following circumstances:

10.6.1 failure to provide a detailed, complete and accurate "Annual IF Activity Report" in each year of the IF project;

10.6.2 removal, in whole or in part, of the IF investment from the SMB prior to the end of five continuous years; or

10.6.3 use of the IF investment for purposes other than those outlined in the IF Business Plan.

- 10.7 A "Guide for Applicants" is available on the IRB Website ([www.ic.gc.ca/irb](http://www.ic.gc.ca/irb)), which provides additional details on the IF processes, timelines and deliverables. The Guide also provides the templates to be used by the Contractor or its Eligible Party during the IF submission process.

## **11. Indirect Transactions**

- 11.1 An Indirect IRB in the form of a purchase of goods or services, not specifically for use in the Work, shall be equivalent level of technology to the Project with applications in Canadian advanced technology industries. A credit for these purchases will be given equal to their CCV under the following conditions:

11.1.1 if the CCV is less than 30 percent of the total content for a given activity, then this activity will not qualify as a IRB Transaction; and

11.1.2 if the CCV is equal or greater than 30 percent, then the CCV will qualify as an IRB.

## **12. Direct IRB Transactions**

- 12.1 Direct IRB Transactions are those achieved through the provision of the goods and services required to deliver the Standard Military Pattern component of the MSVS Project or achieved through the provision of goods and/or services on approved Global Value Chain (GVC) platforms.
- 12.2 Canadian resources should be utilized to the maximum extent possible to develop, produce, integrate and deliver the Standard Military Pattern Vehicle. Eligible areas of involvement include hardware and software, project management, systems design, engineering and integration, programming and independent validation and verification, installation engineering and site installation, and transportation.
- 12.3 An eligible Global Value Chain (GVC) platform must be similar to the platform being proposed for the Standard Military Pattern Vehicle, have a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Standard Military Pattern Vehicle and one that offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.
- 12.4 Activities associated with GVC platforms include, but are not limited to, pre-commercialization activities (e.g. collaborative technology development and demonstration projects), production activities (e.g. definition, design, and manufacturing) and ISS activities.
- 12.5 A list of approved GVC platforms is found in Article 35. The IRB Authority reserves the right to seek validation of the eligibility of the GVC platforms found in Article 35.1, within one (1) year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one (1) year of Contract Award a written notice of the GVC platforms that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have sixty (60) calendar days to submit a package in support of their GVC eligibility claims. Should a GVC platform be found to not meet the GVC criteria (outlined in Article 12.3), any IRB Transactions involving that platform will not be eligible to be used towards meeting the minimum Direct IRB requirement outlined in Article 2.1.2.

## **13. Strategic Plans**

13.1 Major Obligor to Canada are required to submit a Strategic Plan to the IRB Authority annually. If the contractor is a major obligor, as defined in Article 1.1 then;

13.1.1 The Contractor and the IRB Authority will meet annually to update, review and discuss the Contractor's Strategic Plan.

13.1.2 Representatives at senior levels of the corporation and senior levels of Industry Canada will be available for annual meetings.

13.2 The Contractor's Strategic Plan should include:

13.2.1 a description of the Contractor's broad corporate plans for Canada over the medium-term (3-5 years) and long-term (5+ years);

13.2.2 how these corporate plans may translate into IRB activities;

13.2.3 an overview of the Contractor's current and anticipated IRB Obligations to Canada; and

13.2.4 IRB Partnerships with tier-one suppliers or other Eligible Parties.

13.3 Contractors with multiple IRB obligations totalling less than \$1 billion may also submit a Strategic Plan to the IRB Authority; however, neither the IRB Authority nor the Contractor will be required to meet annually to discuss the Strategic Plan.

13.4 Contractors with Strategic Plans approved by Industry Canada may be permitted to "pool" high value, strategic IRB business activities.

13.5 Pooled IRB Transactions must meet the following criteria:

13.5.1 meet the IRB Eligibility Criteria as described in Article 5, Eligibility Criteria for IRB Transactions;

13.5.1.2 have a value of over \$100 million measured in CCV; and

13.5.1.3 provide long term impact to the Canadian recipient including R&D support, first purchase of innovative Canadian technologies, market leadership, world product mandate, global value chain activities, or technology advancement.

#### **14. Discretionary Authority**

14.1 Not used.

#### **15. Valid Orders**

15.1 The extent to which each IRB Transaction will qualify will be based on and limited to valid orders and/or contracts delivered by the end of the IRB Achievement Period.

#### **16. Trading / Mutual Abatement**

16.1 Trading of IRB credits is not permitted, as well Mutual Abatement is not permitted.

#### **17. Banking**

- 17.1 A total of 50% of the IRB Commitment value may be met with Banked IRB Transactions from the IRB Bank. The entire CCV of a Banked IRB Transaction, not portions thereof, must be applied to a single IRB Transaction proposed under the Contract. Each transaction must clearly state that it is a Banked IRB Transaction. The Banked IRB Transaction must contain the exact information as submitted to the IRB Bank.

**18. Import Replacement**

- 18.1 Import replacements due to the transference of work into Canada will be counted for IRB purposes.

**19. Multipliers**

- 19.1 Multipliers are only permitted on IRB Transactions involving cash contribution input to Canadian universities for university research or the establishment of university Chairs; investments in advanced technology skill development through publicly operated post secondary institutions; collaborative research undertaken with publicly accessible research institutions (e.g. the National Research Council or other federal or provincial research institutions); contributions to Venture Capital Funds specializing in small business development; and cash contributions to research and development through a Consortium. Multipliers will not exceed five (5:1).

**20. World Product Mandate**

- 20.1 If a product designed, developed and manufactured by a Canadian company is the subject of a world product mandate, where it is a long term relationship between the Contractor or an Eligible Party and a Canadian company, whereby the Canadian company has been legally authorized to carry out the aforementioned specific activities, and is identified as such in an Indirect IRB Transaction, and where the CCV of the product is verified to be seventy (70) percent or greater, the full contract value of the transaction will be deemed to be CCV.

**21. Small and Medium Business**

- 21.1 For the benefit of Small and Medium Business and to lessen their administrative burden, if at least seventy (70) percent of the value of an IRB Transaction below \$100,000.00 is CCV, that contract will be deemed to have 100 percent CCV for reporting and verification purposes only.

**22. Enhanced Priority Technology List**

- 22.1 Version 1.0 of the EPTL is attached as Appendix 4 to Annex F and applies to this contract. The IRB Authority will assess proposed EPTL transactions to determine whether they are: relevant to the EPTL List Version 1.0; and, of a unique and/or transformational nature to existing global product offerings. All EPTL transactions must meet the IRB Eligibility Criteria outlined in Article 5.
- 22.2 The IRB Authority may publish updated versions of the EPTL. Such a subsequent published version of the EPTL may be considered to replace Version 1.0 in this Contract. Replacing the EPTL would require agreement between the IRB Authority and the Contractor, as part of a contract change proposal submitted to the Contracting Authority.
- 22.3 In the case where EPTL Version 1.0 is replaced with a subsequent version, any IRB Transactions which have already been accepted by the IRB Authority as eligible under Version 1.0 will remain unaffected by the change to a subsequent version.
- 22.4 The Contractor may choose to submit a banked EPTL-related transaction for the Standard Military Pattern component of the MSVS Project. (Please see Article 17 – Banking.) With

Industrial and Regional Benefits Requirements

respect to a banked EPTL transaction, the Version of the EPTL which was in effect at the time of the transaction's acceptance into the IRB Bank may be different than the version applicable to the Standard Military Pattern component of the MSVS Project. In that case, the banked EPTL transaction can nonetheless be counted towards the EPTL requirement on the Standard Military Pattern component of the MSVS Project.

22.5 The IRB Authority reserves the right to seek validation of the eligibility of the EPTL Transactions found in Appendix 1 to Annex F within one (1) year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one (1) year of Contract Award a written notice of the EPTL Transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have sixty (60) calendar days to submit a package in support of their EPTL eligibility claims. Should an EPTL transaction be found to not meet the EPTL criteria (outlined in Article 22.1), it will not be eligible to be used towards meeting the EPTL requirement outlined in Article 2.1.4.8.

22.6 The IRB Authority is the single point of contact between industry and government regarding the EPTL. All enquiries regarding the EPTL contents should be directed to the IRB Authority.

**23. Announcements**

23.1 Industry Canada reserves the right to make general announcements on contracted or signed Memorandum of Understanding IRB Transactions. Announcements would include company names, general descriptions of the work being proposed and approximations of CCV and subcontract value.

**24. IRB Transaction Alterations**

24.1 The Contractor must not alter the IRB Commitments listed in Appendix 1 of Annex F unless:

24.1.1 the Contractor has submitted a proposal to the IRB Authority through the Contracting Authority, with respect to the alteration; and,

24.1.2 the IRB Authority through the Contracting Authority has given written approval to the Contractor and requested the Contracting Authority to amend the Contract accordingly.

24.2 The Contractor may propose alterations to or substitutions for any of the IRB Transaction(s) listed in Appendix 1 of Annex F, and the IRB Authority may accept these requests provided that in the judgment of the IRB Authority:

24.2.1 the circumstances requiring the change are exceptional and likely to result in undue hardship upon the Contractor if a change is not made;

24.2.2 the obligations of this Contract are maintained i.e. the overall Regional and Small and Medium Business Commitments are maintained;

24.2.3 the proposed alterations or substitutions meet the IRB Eligibility Criteria stated in this Contract;

24.2.4 the proposed substitute IRB Transaction or multiple transactions may not less than the IRB Transaction to be replaced both as to the level of technological sophistication of the work to be performed and the CCV;

24.2.5 Canadian industry will receive the maximum high-quality, low risk, Direct Benefits associated with the delivery of the work; and

24.2.6 Canadian industry will receive high-quality, low risk, Indirect Benefits of the same level of technology as the Direct Benefits.

**25. Contract Price Changes**

25.1 Where the Contract is to be amended, the IRB Commitments as specified in Article 2, IRB Commitments and Responsibilities, will be correspondingly either increased or decreased to reflect this amendment.

**26. Verification and Access to Records**

26.1 The Contractor must implement the IRB procedures and practices as described in the IRB Management Plan. Any changes to the IRB Management Plan are subject to approval by the IRB Authority.

26.2 The Contractor must keep proper records and all documentation relating to the determination of the CCV of the work provided under this Contract, including invoices and proof of payments. The Contractor must not, without the prior written consent of the IRB Authority, dispose of any such records or documentation until the expiration of two (2) years after final payment of this Contract, or until settlement of all outstanding claims and disputes, whichever is later. All such records and documentation must at all times during the aforementioned retention period be open to verification, inspection and examination by the IRB Authority or his/her delegate, who may make copies thereof and take extracts therefrom.

26.3 In addition, the IRB Authority may request the Contractor provide copies of all such information be sent to him/her via mail or courier for a random sample of IRB Transactions as he/she may from time to time request.

26.4 If the IRB Authority determines that the information contained in the annual report and certified by the Certificate of Compliance will be verified, the Contractor must undertake to provide the IRB Authority with access, at all reasonable times, and within sixty (60) calendar days of being notified, to its accounts and records relating thereto and must, by obtaining similar undertakings in the subcontracts of all Eligible Parties, arrange for the same in respect of any subcontracts and suppliers carrying out the work.

26.5 Where, subsequent to the verification action taken pursuant to this Clause, the IRB Authority determines that the records are insufficient to verify the Contractor's achievements in respect of any IRB Commitment, the Contractor must provide such additional information as may be required by the IRB Authority.

26.6 Where it cannot be verified that an IRB Transaction has provided the IRB claimed, that portion of the IRB which cannot be verified will be considered as not having been achieved and the IRB Authority will give Notice to the Contractor of the shortfall through the Contracting Authority.

26.7 Should the Contractor disagree with a decision delivered pursuant to the above paragraph, the Contractor, within twenty (20) Business Days from the notification of the said decision, may appeal, by Notice to the Contracting Authority, the above decision by describing fully the issue, all relevant factors and the reasons for its disagreement with the said decision. The IRB Authority, on subsequent review of the factors surrounding the disagreement, will issue a final determination, identifying the amount of any such IRB achieved.

26.8 If the IRB Authority determines that a significant Shortfall in the Contractor's total IRB Commitment exists and if the IRB Authority believes that the Contractor will not meet its total IRB Commitment, the IRB Authority may give, through the Contracting Authority, notice to the

Contractor and request the Contractor to submit a proposal showing how the Contractor plans to correct such deficiencies. The Contractor must submit its proposal within sixty (60) calendar days of receipt of such notice. If the proposal is not acceptable to the IRB Authority, the IRB Authority may request the Contracting Authority to suspend payment.

- 26.9 The Contractor's overall IRB Commitments, claims and achievements, is information available to Parliament and is considered by the Canadian Government as information that can be released to the public. However, the Contractor's specific corporate and transactional information is considered as commercial confidential and its receipt, storage and protection is governed by applicable federal laws and processes. Contractors are encouraged to clearly mark their documents identifying each page as belonging to them and containing sensitive, commercially confidential information.

## **27. Over-Achievement of IRB Commitments**

- 27.1 The Contractor may achieve a CCV for any Commitment in excess of the value stated in the IRB Transactions without prior approval. When an over-achievement occurs in an IRB Transaction Commitment, subject to the prior written approval of the IRB Authority, the over-achievement may be applied against the shortfall or unallocated portion of the IRB Transactions, as long as the Regional and Small and Medium Business Commitments are achieved. An over-achievement in one Region will not be applied to reduce a shortfall in another Region.

## **28. Failure to Achieve IRB Commitments**

- 28.1 Liquidated Damages:

28.1.1 In respect of the failure to achieve any of the Commitments in clauses 2.1 to 2.5, IRB Commitments and Responsibilities, by the end of the IRB Achievement Period, the Contractor must immediately pay to Canada as liquidated damages 10% of the Shortfall.

28.1.2 In the event that liquidated damages arise under more than one of the IRB Commitments, the Contractor will be liable only under the IRB Commitment which results in the highest liquidated damages.

28.1.3 Included in the total IRB Commitments are the unallocated IRB Commitments.

- 28.2 Holdback/Stop Payments:

28.2.1 The Contractor must submit to the IRB Authority, one (1) year after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV.

28.2.2 If at the end of IRB Reporting Period 2, it is confirmed through the submission and evaluation of transactions that the Contractor failed to identify 60% of the IRB Commitment Value in eligible IRB Transactions by the end of Reporting Period 1, Canada will suspend contract payments until the situation is remedied.

28.2.3 The Contractor must submit to the IRB Authority, by the end of IRB Reporting Period 3 acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.

- 28.2.4 If at the end of the IRB Reporting Period 4, and it is confirmed through the submission and evaluation of transactions that the Contractor has failed to identify 100% of the IRB Commitment Value in eligible IRB Transactions by the end of Reporting Period 3, Canada will suspend contract payments until the situation is rectified.
- 28.2.5 With respect to the stop payment clauses outlined in sub-articles 28.2.2 and 28.2.4, a grace period of thirty (30) calendar days, beginning on the date of failure notification by the IRB Authority, will pass before the Holdback takes effect. Within this period, the Contractor may take corrective action.
- 28.3 In the event that the Contract is terminated for default pursuant to the General Conditions Clause entitled "Default by the Contractor", the Contractor will immediately pay to Canada an amount equal to the Liquidated Damages that would be payable under clause 28.1.1 based on the shortfall in regard to those Commitments that, according to Appendix 1 of Annex F (Plans, Transactions and Tables), were to be achieved by the date of termination. In the event of such payment, the Contractor will have no further liabilities in regard to the IRB requirements of the Contract.
- 28.4 In the event that this Contract is terminated for convenience pursuant to the General Conditions Clause entitled "Default by the Contractor", the Contractor will have no further liabilities. In the event of partial termination of the Contract, the Contractor will be released from the terminated portions of its Commitments and from the provisions of Article 2, IRB Commitments and Responsibilities, as it relates to such terminated portions.
- 28.5 If, during the progress of the Contract, a change in the Work is initiated by Canada which results in the Contractor no longer being able to source from a Canadian Company and, as a consequence, Commitments may not be met, the Contractor must immediately notify the IRB Authority through the Contracting Authority. The Contractor must fully describe the issue, provide all supporting data, including a complete record of attempts to purchase from Canadian sources and Canadian suppliers' responses, together with an analysis of specific technical, commercial or other factors which result in the inability to source from Canada.
- 28.6 The Contracting Authority in accordance with this Article, will have the right to holdback, drawback, deduct and set off from and against the monies owing at any time by Canada to the Contractor, any damages owing under this Contract equal to ten percent (10%) of the shortfall amount.
- 28.7 Nothing in this Article will be interpreted as limiting the rights and remedies which the Contracting Authority may otherwise have in relation to any breach of this Article by the Contractor, including the right to terminate the Contract for default.
- 29. Right of Set-off**
- 29.1 Without restricting any right of set-off given by law, Canada may set-off against any amount payable to the Contractor under the Contract, any amount payable to Canada by the Contractor under the Contract or under any other current contract. Canada may, when making a payment pursuant to the Contract, deduct from the amount payable to the Contractor any such amount payable to Canada by the Contractor which, by virtue of the right of set-off, may be retained by Canada.
- 29.2 For greater certainty, the Contractor agrees that this includes the right for Canada to set-off amounts for unpaid Liquidated Damages owing as a result of shortfalls in the Contractor's Industrial and Regional Benefit commitments against the associated In-Service Support Contract for the MSVS SMP fleet.



### **30. Responsibilities of the Parties**

30.1 The Parties to this Contract acknowledge and agree that:

- 30.1.1 Canada has responsibility for the economy of Canada and, in order to develop its economy, has set in place policies and programs to promote and enhance the development of the Canadian industrial base, including regional industry and small business;
- 30.1.2 the award of this Contract to the Contractor resulted from a procurement process in which the Contractor committed to fulfil the CCV Commitments set out in Article 2, IRB Commitments and Responsibilities;
- 30.1.3 it is the responsibility of the Contractor to ensure that it can complete the IRB Transactions and that these are not limited by applicable laws, regulations, policies or standards; and
- 30.1.4 actual damages which would be sustained by Canada in the event of a breach by the Contractor of the CCV Commitment provisions of this Contract would be commercially impracticable or extremely difficult to compute or ascertain and, therefore, the provisions for Liquidated Damages are agreed to be a fair and reasonable best estimate of such actual damages, and the manner provided herein for the enforcement and collection of Liquidated Damages is agreed to be fair and reasonable.

### **31. Dispute Settlement - Resolution of Discrepancies**

- 31.1 In matters pertaining to proposed and/or approved IRB Transactions, in circumstances where the IRB Authority and the Contractor fail to agree after negotiating in good faith, then the decision of the IRB Authority will prevail.
- 31.2 In the event that the Contractor fails to agree to the decision rendered by the IRB Authority, then the Contractor may, within twenty-eight (28) calendar days of receipt of Canada's decision, submit a request to the Contracting Authority, for reconsideration of the matter by the IRB Authority. Such a request will fully describe the issue, all relevant factors and the reasons for the Contractor's disagreement. Industry Canada will, within twenty-eight (28) calendar days of receipt of the request, issue the final determination detailing the reasons for the decision.

### **32. Government Organizations**

- 32.1 It is the responsibility of the Contractor to be familiar with Government departments and agencies including the following which are responsible for regional and industrial development: Industry Canada; Western Economic Diversification (WD); Federal Regional Development Organization for Northern Ontario (FedNor); Federal Economic Development Agency for Southern Ontario (FedDev Ontario); Canada Economic Development for Quebec (CED-Q); and Atlantic Canada Opportunities Agency (ACOA).

### **33. Contingency/Success Fees**

- 33.1 The Contractor must not make or agree to make any payment to an individual that is contingent on the approval of IRB Credit by the IRB Authority under this Contract, or upon the individual's success in arranging meetings with public office holders.

### **34. List of Eligible Parties**

34.1 The Eligible Parties to this contract include the companies and coordinates listed below:

(List to be included at contract award)

**35. List of Approved Global Value Chain Platforms**

35.1 The platforms approved for GVC work are listed below:

(List to be included at contract award)

**36. Compliance with the *Lobbying Act***

36.1 The Contractor and its Eligible Parties each represents and warrants:

36.1.1 that it has filed all *Lobbying Act* returns to be filed in respect of persons employed by it who communicate and/or arrange meetings with public office holders as part of their employment duties, and that it will continue to do so;

36.1.2 that it has not contracted with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent in any way upon success of such person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;

36.1.3 that it will not contract with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent upon the success of such person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;

36.1.4 all persons who are or have been contracted by it to communicate and/or arrange meetings with public office holders in respect to this Contract are in full compliance with the registration and other requirements of the *Lobbying Act*;

36.1.5 it must at all times ensure that any persons contracted to communicate and/or arrange meetings with public office holders in respect of this Contract are in full compliance with the requirements of the *Lobbying Act*.

36.2 When submitting each IRB Annual Report, the Contractor and its Eligible Parties must provide the IRB Authority with an update, in a form satisfactory to the IRB Authority, on all representations, warranties and undertakings made herein.

## Appendix 1

### Plans, Transactions and Tables

#### 1. IRB Commitment Tables

Table I - Total of IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
S. Ontario						
Unallocated						
Totals By Period						

Table II - Total Direct IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
S. Ontario						
Unallocated						
Totals By Period						

Table III - Total Indirect IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
S. Ontario						
Unallocated						
Totals By Period						

Table IV - IRB Transaction Listing and Summary - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs:						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs:						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

Table V - IRB Transaction Listing and Summary - by Region

Transaction Description	Atlantic	Quebec	Southern Ontario	Northern Ontario	West	Unallocated	Totals
Direct IRBs:							
#001							
#002							
#003							
Sub-total - Direct IRBs							
Indirect IRBs:							
#001							
#002							
#003							
Sub-total - Indirect IRBs							
Totals							

Table VI - IRB Transactions Listing and Summary for Small and Medium Business - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs:						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs:						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

Table VII -IRB Transactions Listing and Summary for Small and Medium Business - by Region

Transaction Description	Atlantic	Quebec	Southern Ontario	Northern Ontario	West	Unallocated	Totals
Direct IRBs:							
#001							
#002							
#003							
Sub-total - Direct IRBs							
Indirect IRBs:							
#001							
#002							
#003							
Sub-total - Indirect IRBs							
Totals							

## Appendix 2

### Certificate of Compliance

1. **For IRB Reporting Purposes**

WHEREAS Her Majesty the Queen, in right of Canada as represented by the Minister of Public Works and Government Services Canada (referred to herein as the Minister) on the \_\_\_\_ day of \_\_\_\_ has entered into contract with \_\_\_\_\_ for the Contract.

AND WHEREAS Such Contract requires that, as evidence of the achievement of Canadian Content Value of Industrial and Regional Benefits Transactions and Commitments, the Contractor shall submit a Certificate of Compliance to that effect to the IRB Authority;

NOW THEREFORE, The Contractor declares and certifies as follows:

- I) The information contained in the documents appended herewith, which applies to the reporting of the IRB Transaction periods is to the best of our knowledge and ability complete, true and correct;
- ii) The information contained in the documents appended herewith is compliant with information contained in Certificates of Compliance submitted to the Contractor by other Eligible Parties;
- iii) The Canadian Content Values shown in documents appended herewith have been determined in accordance with Article 4 (Canadian Content Value) of Annex F to the Contract;

IN WITNESS THEREOF THIS CERTIFICATE OF COMPLIANCE HAS BEEN SIGNED THIS  
\_\_\_\_ DAY OF \_\_\_\_\_ BY THE SENIOR COMPTROLLER WHO IS DULY  
AUTHORIZED IN THAT BEHALF.

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
NAME AND TITLE OF SENIOR COMPTROLLER

AT: \_\_\_\_\_



## Appendix 3

### IRB Transaction Sheet

#### 1. Detailed IRB Transaction Sheet

1. IRB Transaction #:

2. IRB Transaction Title (a brief title identifying the nature of the transaction):

3. Indirect, Direct or Unallocated IRB Transaction:

Type of activity:

4. Transaction Value:

Total Transaction Value:

% of Canadian Content Value:

Total Canadian Content Value:

5. Sourcing Region:

Region:

City, Province:

6. Small and Medium Business - is the Recipient a Small and Medium Business:

Yes/No:

7. Company providing IRB (Donor):

Company:

Address:

Contact:

Tel:

Fax:

E-mail:

<p>8. Company Receiving IRB (Recipient):</p> <p>Company: Address: Contact: Tel: Fax: E-mail:</p> <p>9. Industrial Sector and Expertise of the IRB Recipient:</p> <p>Industrial Sector:</p> <p>Enhanced Priority Technology List (EPTL): Yes / No If YES: EPTL Version: Sector: Category: Describe and document the activity's relevance to the EPTL List Version 1.0 and its unique and/or transformational nature to existing global product offerings:</p> <p>Description of the expertise of the IRB Recipient:</p> <p>10. Description of the IRB Transaction and Canadian Recipient for the IRB Transaction:</p>																																																																															
<p>11. Quality of IRB: Provide description of the quality of the individual Transaction. For example, increases in employment, increased marketability of recipient company, international exposure, experience with new technology, etc.</p> <p>12. Provide and show justification for eligibility as a valid IRB Transaction (Causality, Timing, Incrementality, Eligible Party and CCV):</p>																																																																															
<p>13. Canadian Government Assistance:</p> <p>Does this apply? If so, provide a description of other Canadian Government assistance:</p>																																																																															
<p>14. Time Phasing of IRB Transaction:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th colspan="2" style="text-align: left;">Total Contract Value of the Transaction \$</th> <th colspan="2" style="text-align: left;">Total CCV \$</th> <th colspan="2" style="text-align: left;">CCV % %</th> <th colspan="4" style="text-align: left;">Liquidated Damages: 10%</th> </tr> <tr> <th>Period</th> <th>Pre-Contract</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>Total</th> </tr> <tr> <td>Region</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Atlantic</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Quebec</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S. Ontario</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										Total Contract Value of the Transaction \$		Total CCV \$		CCV % %		Liquidated Damages: 10%				Period	Pre-Contract	1	2	3	4	5	6	7	Total	Region										Atlantic										Quebec										S. Ontario																			
Total Contract Value of the Transaction \$		Total CCV \$		CCV % %		Liquidated Damages: 10%																																																																									
Period	Pre-Contract	1	2	3	4	5	6	7	Total																																																																						
Region																																																																															
Atlantic																																																																															
Quebec																																																																															
S. Ontario																																																																															

N. Ontario									
Western									
Unallocated									
Total CCV									
Foreign									
Total									

15. Any other comment related to the Transaction:

16. Federal Supply Classification (FSC) Code:

#### Appendix 4

### Enhanced Priority Technology List

Version 1.0 (Winter 2011)  
Department of National Defence

Sector	Category	Description
<b>Ships</b>	Defence	Detection capabilities and decision aids
	Signature Management	Detectability reduction
<b>Cyber</b>	Network Monitoring	Detection and tracking of anomalous behaviours that threaten network defence capabilities
	Network Defence	Tools to support dynamic responses to isolate, monitor and defeat cyber intrusions
<b>Aerospace</b>	Arctic and Maritime Domain Awareness	Affordable aerospace-based surveillance and monitoring systems
	Vulnerability Reduction	Precision navigation and timing capabilities that reduce vulnerabilities in current systems such as GPS
<b>Soldier Systems</b>	Power and Energy	Lightweight high-energy portable power sources
	Full Spectrum Protection	Blast and ballistic omni-directional shielding
	Garment Platforms	Integrated multi-function electro-textiles
	Tunable Weapons Systems	Weapons systems which deliver effects across non-lethal and lethal environments
	Situation Awareness	Integrated, portable, lightweight, multifunction, wireless and secure C3 systems

**APPENDIX 5**  
**ANNUAL *IF* ACTIVITY REPORT**  
*(Please complete entire form)*

***IF* Transaction Number:**

***IF* Transaction Title:**

***IF* Investor:**

**SMB Recipient:**

**Date of this report:**

**PART A – FIRST *IF* REPORT**

At a minimum, the Contractor's first Annual *IF* Activity Report must contain and address the items listed below:

**1. Documentation confirming *IF* investment:**

For cash investments, attach the following:

- ☐ A certified copy of the cheque or wire transfer to the SMB
- ☐ Written reconfirmation from the SMB of their anticipated use of the cash investment
- ☐ A copy of the final signed legal agreement (or similar signed document) between the IRB Obligor and the SMB outlining the terms and conditions of the investment.

For in-kind investments, attach the following:

For tangible assets

- ☐ written confirmation that the transfer of the asset has taken place
- ☐ written confirmation from the SMB of its receipt
- ☐ written reconfirmation from the SMB of its expected use.

For intangible assets (licenses, knowledge, marketing and sales)

- ☐ written confirmation from the SMB identifying the contribution, confirming its receipt and reconfirming its expected use.
- ☐ a copy of the final signed legal agreement (or similar signed document) between the *IF* Investor and the SMB, outlining the terms and conditions of the investment, including the final value of the transfer.

**PART B – ENSUING *IF* REPORTS**

Once *IF* activities begin, each of the Contractor's Annual *IF* Activity Reports must, at a minimum, contain and address the items listed below:

**1. Overview of the *IF* investment and how it is to be used:**

**2. Current, overall status of the *IF* project:**

**3. Confirmation of the SMB's full-time equivalent employees and ownership structure:**

Number of Full time equivalent employees \_\_\_\_\_

Ownership structure \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**4. Confirmation that the *IF* investment remains with the SMB and is being used as intended:**

☐ Yes

☐ No

**Details:**

\_\_\_\_\_  
\_\_\_\_\_

**5. Description of the specific activities undertaken during the reporting year:**

**Challenges associated with *IF* activities?**

☐ Yes

☐ No

**Details:**

---

---

---

---

**Successes associated with *IF* activities?**

☐ Yes

☐ No

**Details:**

---

---

---

---

**Opportunities associated with *IF* activities?**

☐ Yes

☐ No

**Details:**

---

---

---

---

**6. Description of the evolving industry and market conditions related to the *IF* project:**

**7. Update on the financial status of the Canadian SMB:**

**Attach the most recent audited financial statements (balance sheet, income statement, statement of change in equity, statement of cash flows).**

**8. Status of the business relationship and collaboration between the IRB Obligor and the Canadian SMB:**

**Overview:**

☐ **Successes related to relationship/collaboration?**

☐ **Yes**

☐ **No**

**Details**

☐ **Challenges related to relationship/collaboration?**

☐ **Yes**

☐ **No**

**Details**



☐ **Future opportunities related to relationship/collaboration?**

☐ **Yes**

☐ **No**

**Details:**

☐ **Links to other partners or sectors**

☐ **Yes**

☐ **No**

**Details:**

☐ **Other information**

☐ **Yes**

☐ **No**

**Details:**

**9. Description of the impact of the *IF* project to date:**

**Impact on Innovation**

☐ **High**

☐ **Moderate**

☐ **Low**

**Details:**

**Impact on Competitiveness**

- ☐ **High**
- ☐ **Moderate**
- ☐ **Low**

**Details:**

**Impact on Delivering Broader Benefits to Canada**

- ☐ **Technology**
- ☐ **Economy**
- ☐ **Environment**
- ☐ **Social**
- ☐ **Security**
- ☐ **Other**

**Details:**

**10. Major Changes**

Changes have occurred to the *IF* project in the following area(s):

- ☐ **Company bankruptcy**
- ☐ **Changes in SMB ownership or size**
- ☐ **New *IF* activities**
- ☐ **Other** \_\_\_\_\_
- ☐ **Not applicable**

**Details regarding nature and magnitude of change, plus its impact on *IF* project:**

---

---

---

## 11. Signatures

By signing this *IF* Activity Report, the undersigned parties attest that the information included in and attached to this document is complete, accurate and can be relied up on by the IRB Directorate for the purposes of monitoring the *IF* investment. Ultimate responsibility for the completeness, accuracy and reliability of this *IF* Activity Report rests with the Contractor and the *IF* Donor.

Please see the “Required Signatures” section of the *IF* Applicant Guide.

### **IRB Contractor**

Signature

Date

---

Name (please print)

Title

---

### **IF Donor**

Signature

Date

---

Name (please print)

Title

---

### **IF Recipient (Canadian SMB)**

Signature

Date

---

Name (please print)

Title

---

### **Security of Information:**

*Contractor to insert text identifying each page as belonging to them and containing sensitive, commercially confidential information.*

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06MSMP/L

Part 7 - Resulting Contract - Acquisition

Annex G – Certificate of Defence Supplies

## CERTIFICATE OF DEFENCE SUPPLIES

I certify that the items purchased under contract number W8476-06MSMP/L  
are "Defence Supplies" as defined in the Defence Production Act, pursuant to Tariff Item No. 9982.00.00.

Approved by the PWGSC MPD-L Senior Director:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition  
Annex H - Forms

## **1. FORMS**

- 1.1 DND 590 (04-2009) - Certificate of Validation**
- 1.2 DND 2515 (12-2008) - Certificate of Translation Accuracy Check**
- 1.3 DND 642 (12-2008) - Certificate of Reproducible Copy**
- 1.4 DND 591 (12-2008) - Certificate of Compliance for Publications**
- 1.5 Certification of Completeness**
- 1.6 CF 1280 Certificate of Inspection and Release**
- 1.7 DND 626 – Task Authorization**
- 1.8 CF 777 – Unsatisfactory Condition Report (UCR)**
- 1.9 DND 2027 – LEMS Equipment Inspection Report**
- 1.10 PWGSC 1111—Claim for Progress Payment**

## 1.1 Certificate of Validation

<b>National Defence</b> <b>Défense nationale</b>	
<b>CERTIFICATE OF VALIDATION</b> <b>CERTIFICAT DE VALIDATION</b>	
CONTRACTOR – ENTREPRENEUR	
ADDRESS – ADRESSE	
CONTRACT NO. – N° DU CONTRAT	SERIAL NO. – N° DE SÉRIE
ITEM NO. – N° DE L'ARTICLE	MOD NUMBER – N° MOD
PUBLICATION TITLE – TITRE DE LA PUBLICATION	
BASIC DATE – DATE DE PUBLICATION	CHANGE NO. AND DATE – N° DE MODIFICATION ET DATE
REVISION DATE – DATE DE RÉVISION	

<p><b>Publications Supervisor/Manager (Contractor)</b></p> <p><b>FOR PUBLICATIONS IN SUPPORT OF EQUIPMENT</b></p> <p>I hereby certify that the content of this manuscript is complete, accurate, adequate and that the content is compatible with the equipment that it supports. I also certify that the equipment, that is supported by this manuscript, can be safely operated, maintained and serviced if the procedures, and instructions that are set out by this manuscript are followed.</p> <p>_____ (Signature)</p>	<p><b>Superviseur/gérant des publications (Entrepreneur)</b></p> <p><b>PUBLICATIONS ANNEXES DU MATÉRIEL</b></p> <p>Je certifie que le contenu de ce manuscrit est complet, exact et pleinement approprié au matériel qu'il concerne. Je certifie également que le matériel peut être utilisé et entretenu de façon sûre en suivant les instructions données dans ce manuscrit.</p> <p>_____ (Date)</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p><b>FOR OTHER PUBLICATIONS:</b></p> <p>I hereby certify that the manuscript content is complete, accurate and adequate in accordance with the terms and conditions of this contract.</p> <p>_____ (Signature)</p>	<p><b>AUTRES PUBLICATIONS:</b></p> <p>Je certifie que le contenu de ce manuscrit est complet et exact et qu'il est conforme aux stipulations du contrat.</p> <p>_____ (Date)</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------


  

<p><b>DND Instruction to the Contractor</b></p> <p>The contractor is authorized to proceed with the preparation of reproducible copy.</p> <p style="text-align: center;"><input type="checkbox"/> <b>OR</b></p> <p>Corrective action is required and the contractor shall proceed as directed in the attached letter</p> <p><b>DATED</b> DATÉES DU ►</p>	<p><b>Instructions du MDN à l'entrepreneur</b></p> <p>L'entrepreneur est autorisé à produire un texte reproductible;</p> <p style="text-align: center;"><input type="checkbox"/> <b>OU</b></p> <p>Des corrections sont nécessaires; l'entrepreneur doit suivre les instructions ci-jointes</p> <p><b>FILE</b> DOSSIER ►</p>
<p><b>DDDS/OSO (OR DESIGNATED REPRESENTATIVE) – DSSD/OSD (OU SON REPRÉSENTANT)</b></p> <p>_____ (Signature)</p> <p>_____ (Date)</p>	

OND 590 (8-93) 7530-21-896-0627



## **1.2 Certificate of Translation Accuracy Check**

 <b>National Défense Defence nationale</b>	
<b>CERTIFICATE OF TRANSLATION ACCURACY CHECK</b>	<b>CERTIFICAT DE L'EXACTITUDE DE LA TRADUCTION</b>
CONTRACTOR - ENTREPRENEUR	
ADDRESS - ADRESSE	
CONTRACT NO. - N° DU CONTRAT	SERIAL NO. - N° DE SÉRIE
ITEM NO. - N° DE L'ARTICLE	
DND 626 REQUISITION NO. - N° DE RÉQUISITION 626	NDID NUMBER - N° IDDN
PUBLICATION TITLE - TITRE DE LA PUBLICATION	
BASIC DATE - DATE DE PUBLICATION	CHANGE NO. AND DATE - N° DE MODIFICATIF ET DATE
REVISION DATE - DATE DE RÉVISION	

<p style="text-align: center;">(Complete in full as applicable)</p> <p>CERTIFICATION OF:</p> <p>French Translation <input type="checkbox"/></p> <p>English Translation <input type="checkbox"/></p> <p>Other <input type="checkbox"/> (specify)</p> <p><b>Publications Supervisor/Manager (Contractor)</b></p> <p><b>FOR PUBLICATIONS IN SUPPORT OF EQUIPMENT</b></p> <p>I hereby certify to the technical accuracy and adequacy of the language indicated above version of this manuscript.</p> <p>_____ (Signature)</p>	<p style="text-align: center;">(Remplir toutes les rubriques appropriées)</p> <p>CERTIFICATION DE:</p> <p>Traduction française <input type="checkbox"/></p> <p>Traduction anglaise <input type="checkbox"/></p> <p>Autre <input type="checkbox"/> (préciser)</p> <p><b>Superviseur/gérant des publications (Entrepreneur)</b></p> <p><b>PUBLICATIONS ANNEXES DU MATÉRIEL</b></p> <p>Je certifie l'exactitude et le caractère adéquat de la traduction de ce document, dans la version mentionnée ci-dessus.</p> <p>_____ (Date)</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------


<p>RECEIPT IS ACKNOWLEDGED ON BEHALF OF DND</p> <p>_____ (Signature)</p>	<p>AU NOM DU MDN NOUS ACCUSONS RÉCEPTION DU CERTIFICAT</p> <p>_____ (Date)</p>
------------------------------------------------------------------------------	------------------------------------------------------------------------------------

DPTDS/DSO (OR DESIGNATED REPRESENTATIVE) - DPSDT/AD (OU SON REPRÉSENTANT)

1996-03-01 (Reproduce locally)  
(À reproduire sur place)

### 1.3 Certificate for Reproducible Copy

 <b>National Defence / Défense nationale</b>		<b>CERTIFICATE FOR REPRODUCIBLE COPY      CERTIFICAT DE TEXTE REPRODUCTIBLE</b>	
CONTRACTOR – ENTREPRENEUR			
ADDRESS – ADRESSE			
CONTRACT NO. – N° DU CONTRAT		SERIAL NO. – N° DE SÉRIE	
ITEM NO. – N° DE L'ARTICLE		NOID NUMBER – N° IDON	
PUBLICATION TITLE – TITRE DE LA PUBLICATION			
BASIC DATE – DATE DE PUBLICATION		CHANGE DATE – DATE DE MODIFICATION	
		REVISION DATE – DATE DE RÉVISION	
<p><b>Publications Supervisor / Manager (Contractor)</b></p> <p>I hereby certify that the reproducible copy for the publication covered by this certification conforms to the specifications in accordance with the contract, or Standing Offer as applicable, and that all draft changes/corrections as required by the Department, have been included.</p>		<p><b>Superviseur / gérant des publications (Entrepreneur)</b></p> <p>Je certifie que le texte reproductible de cette publication est conforme aux stipulations du contrat, ou de l'offre permanente selon le cas, et que les modifications et corrections indiquées par le Ministère ont été apportées.</p>	
_____ (Signature)		_____ (Date)	
<p><b>DND Instruction to the Contractor</b></p> <p>The contractor is authorized to proceed with the production of printed copy.</p> <p style="text-align: center;"><input type="checkbox"/></p> <p>Corrective action is required and the contractor shall proceed as directed in the attached letter file.</p> <p><b>DATED DATÉES DU</b></p>		<p><b>Instructions du MDN à l'entrepreneur</b></p> <p>L'entrepreneur est autorisé à produire un texte imprimé.</p> <p style="text-align: center;"><input type="checkbox"/></p> <p>Des corrections sont nécessaires; l'entrepreneur doit suivre les instructions ci-jointes.</p> <p><b>FILE DOSSIER</b></p>	
DDSD DESIGNATED REPRESENTATIVE – DDSD SON REPRÉSENTANT			
_____ (Signature)		_____ (Date)	
DND 642 (3-84) 7530-21-896-3055			

#### 1.4 Certificate of Compliance for Publications

<b>National Defence</b> <b>Défense nationale</b>	
<b>CERTIFICATE OF COMPLIANCE</b> <b>CERTIFICAT DE CONFORMITÉ</b>	
CONTRACTOR – ENTREPRENEUR	
ADDRESS – ADRESSE	
CONTRACT NO. – N° DU CONTRAT	SERIAL NO. – N° DE SÉRIE
ITEM NO. – N° DE L'ARTICLE	NDID NUMBER – N° IDON
PUBLICATION TITLE – TITRE DE LA PUBLICATION	
QUANTITY – QUANTITÉ	BASIC DATE – DATE DE PUBLICATION
	CHANGE DATE – DATE DE MODIFICATION
	REVISION DATE – DATE DE RÉVISION

(Complete in full as applicable)

**Publications Supervisor/Manager (Contractor)**

I hereby certify that the publication covered by this certification has been inspected, that it conforms to the specifications in accordance with the conditions of the contract, that it is complete in accordance with the approved publication plan, and that it contains only information previously validated by the contractor and approved by the Department.

\_\_\_\_\_

(Signature)

(Remplir toutes les rubriques appropriées)

**Superviseur/gérant des publications (Entrepreneur)**

Je certifie que cette publication a fait l'objet d'une inspection et qu'elle est conforme aux stipulations du contrat, qu'elle est complète conformément au plan de publication autorisé et que les renseignements qu'elle contient ont d'abord été validés par l'entrepreneur et approuvés par le Ministère.

\_\_\_\_\_

(Date)

<p><b>DND Instruction to the Contractor</b></p> <p>The contractor is authorized to proceed with delivery of the bulk quantity to the consignee.</p> <p style="text-align: center;"><input type="checkbox"/> or</p> <p>Corrective action is required and the contractor shall proceed as directed in the attached letter file</p> <p><b>DATED</b> DATÉES DU ►</p>	<p><b>Instructions du MDN à l'entrepreneur</b></p> <p>L'entrepreneur est autorisé à livrer le nombre d'exemplaires de la publication indiqué ci-dessus au destinataire.</p> <p style="text-align: center;"><input type="checkbox"/> ou</p> <p>Des corrections sont nécessaires; l'entrepreneur doit suivre les instructions ci-jointes</p> <p><b>FILE</b> DOSSIER ►</p>
<p>DDSD/DSO (OR DESIGNATED REPRESENTATIVE) – DSSD/OSD (OU SON REPRÉSENTANT)</p> <p style="text-align: center;">_____</p> <p style="text-align: center;">(Signature)      (Date)</p>	

DND 591 (8-83) 7530-21-896-0628

## 1.5 Certificate of Completeness

<b>Certificate of Completeness</b>			
Contractor – Entrepreneur			
Address – Adresse			
Contract No. – No du Contrat		Serial No. – No de série	
Item No. – No. de l'article			
Deliverable's Name – Nom du livrable			
Deliverable's Date – Date du livrable		DND review date – Date de révision du MDN	
<b>Contractor</b>		<b>Entrepreneur</b>	
I hereby certify that the content of this deliverable is complete, accurate, and adequate and that the content is in accordance with the Contract.		Je certifie que le contenu de ce livrable est complet, exact et pleinement approprié et que le contenu est conforme aux stipulations du contrat.	
Signature		Date	
<b>National Defence</b>		<b>Défense nationale</b>	
Acknowledged and accepted by DND		Au nom du MDN nous accusons réception et acceptation	
Signature		Date	

## 1.6 CF 1280 Certificate of Inspection and Release

CF 1280 - CERTIFICATE OF INSPECTION AND RELEASE/CERTIFICAT D'INSPECTION ET DE SORTIE

1. PURCHASER - ACHETEUR		2. PURCHASE ORDER or REFERENCE FILE BON DE COMMANDE ou N° DE DOSSIER		3. GOVERNMENT CONTRACT NUMBER N° DE DOSSIER DU GOUVERNEMENT		4. NO OF PAGES N° DE PAGES	
5. CONTRACTOR - ENTREPRENEUR		6. SHIPPED FROM (CONSIGNOR) LIEU D'EXPÉDITION (EXPÉDITEUR)		7. SHIPPED TO (CONSIGNEE) DESTINATION (DESTINATAIRE)		8. SHIPMENT No. N° DE L'ENVOI	
Contract Item No. N° D'Article du Contrat  (9)	NATO STOCK NUMBER N° NOMENCLATURE OTAN  (10)	ITEM IDENTIFICATION IDENTIFICATION DE L'ARTICLE  (11)	SERIAL NUMBER OR SIZE N° DE SÉRIE OU TAILLE  (12)	QUANTITY QUANTITÉ  (13)	PACKAGE NUMBER N° DE L'EMBALLAGE  (14)	Undelivered Balance QUANTITÉ NON LIVRÉE  (15)	QUANTITY RECEIVED QUANTITÉ REÇUE  (16)
17. CONTRACTOR CERTIFICATION ATTESTATION DE L'ENTREPRENEUR  I certify that the items listed above have been inspected and tested and conform to all specifications and requirements detailed in the contract or purchase order. J'atteste que les articles inscrits ci-haut ont été inspectés et mis à l'essai et qu'ils sont en tous points conformes aux spécifications et exigences du contrat ou du bon de commande.  SIGNATURE (Contractor QC - CQ de l'entrepreneur)   DATE			18. GOVERNMENT QUALITY ASSURANCE ASSURANCE OFFICIELLE DE LA QUALITÉ  I certify that Government Quality Assurance has been performed Je certifie que l'assurance officielle de la qualité a été effectuée  SIGNATURE (QAR - RAQ)   DATE		19. ACCEPTANCE ACCEPTATION  Quantities shown in block (16) were received in apparent good condition. Les quantités indiquées à la case (16) ont été reçues, et les articles semblaient être en bon état.  Receiving Officer Agent Réceptionnaire   DATE		

CF 1280 - CERTIFICATE OF INSPECTION AND RELEASE/CERTIFICAT D'INSPECTION ET DE SORTIE

**Certificate of Release,  
Inspection and Acceptance  
CF 1280**

**USE**

The Certificate of Release, Inspection and Acceptance CF 1280 constitutes:

- Certification by the supplier that all items listed therein have been inspected and tested and conform to the specifications and requirements detailed in the contract or purchase order.
- Certification by the Quality Assurance Representative when applicable; that Government Quality Assurance has been performed during the contract or purchase order.
- Receipt for goods at destination and once signed by the receiving authority; the payment process can be initiated.

**PREPARATION AND DISTRIBUTION**

It is the supplier's responsibility to prepare and distribute the CF 1280. However, whenever STANAG 4107 applies, the QAR must forward one copy to the delegator.

- Note 1:** All entries other than signatures must be either typewritten or printed.
- 2:** When using more than one CF 1280 per shipment per contract, complete all blocks but only sign Block 17 and have Block 18 signed (when applicable) on the last form.

- Block 1:** Name of the department, country or organization actually ordering the materiel. In the case of PWGSC contracts, they are the purchaser referenced in the contract.
- Block 2:** PWGSC file or supplier purchase order number, as appropriate. For contracts from other North Atlantic Treaty Organisation (NATO) nations, enter date of contract.
- Block 3:** Contract serial number or, if a purchase order, enter the prime contract number.
- Block 4:** Consecutively number the forms used to cover each shipment and enter the total number of pages, (e.g. page 1 of 1, 2 of 6, etc).
- Block 5:** Prime contractor's or sub-contractor's name and complete address.
- Block 6:** Consignor's name; also complete shipping address if different than Block 5.
- Block 7:** Consignee's name and address as contained in the shipping instructions.
- Block 8:** Number for each shipment made under the stated contract commencing at 001.  
**Note:** For more than one shipment under the same contract; the first shipment would be 001 and the final shipment would have the letter F at the end (e.g. 002F).
- Block 9:** Line item number as shown in the contract or purchase order.
- Block 10:** NATO or national stock number as indicated in the contract.
- Block 11:** Manufacturer's part, model, type, drawing or catalogue number or short description of the item. The brief description is mandatory for clothing or footwear contracts.
- Block 12:** Item serial, size, lot/batch numbers as applicable.  
**Note:** Size numbers must be included to identify clothing or footwear. If not applicable enter [N/A].
- Block 13:** Quantity being shipped using the unit of measure as indicated in the contract.
- Block 14:** Identify package number in which the line item can be located.
- Block 15:** Balance of items, if any, to be shipped at a later date as per address in Block 7. If not applicable enter [N/A].
- Block 16:** Leave blank; for use by the receiving authority.
- Block 17:** Authorized supplier quality assurance representative.  
See Note 2 under "preparation and distribution".
- Block 18:** Representative responsible for performing Government Quality Assurance (when applicable).  
See Note 2 under "preparation and distribution".
- Block 19:** Leave blank; for use by the receiving authority.

CF 1280 (11-2011) - Instructions

**Certificat de libération,  
d'inspection et de réception  
CF 1280**

**OBJET**

Le Certificat de libération, d'inspection et de réception CF 1280 constitue:

- Certificat de libération du fournisseur pour attester que les articles énumérés ont tous été soumis à une inspection et à des essais et sont jugés conformes aux spécifications et aux exigences du contrat ou de la commande.
- Certification par le Représentant de l'Assurance de la Qualité lorsque prescrit; que l'assurance officielle de la qualité a été effectuée pour le contrat ou pour la commande.
- Certificat de réception à la destination par l'autorité de réception; et une fois signé, le processus de paiement peut être lancé.

**PRÉPARATION ET DISTRIBUTION**

Il revient au fournisseur de remplir et de distribuer le formulaire CF 1280. Toutefois, si les dispositions du STANAG 4107 s'appliquent, le RAQ doit envoyer un exemplaire au délégant.

- Nota 1:** Toutes les inscriptions autres que les signatures doivent être dactylographiées ou écrites en lettres moulées.
- 2:** Si plusieurs formulaires CF 1280 sont utilisés pour le même envoi par contrat, remplir tout les cases mais seulement signé case 17 et faire signé (au besoin) case 18 sur le dernier formulaire.

- Case 1:** Nom du ministère, du pays ou de l'organisme qui a commandé le matériel. S'il s'agit d'un contrat de TPSGC, indiquer le nom du client qui apparaît sur le contrat.
- Case 2:** Numéro de dossier de TPSGC ou de la commande du fournisseur, selon le cas. Pour contrats envoyé à un autre pays membre de l'OTAN, indiquer la date du contrat.
- Case 3:** Numéro de série du contrat ou, s'il s'agit d'une commande, écrire le numéro du contrat principal.
- Case 4:** Numéroté dans l'ordre de formulaires utilisés et indiquer le nombre total de pages pour chaque envoi (1 de 1 ou 2 de 6, par exemple).
- Case 5:** Nom et adresse de l'entrepreneur principal ou du sous-traitant.
- Case 6:** Nom de l'expéditeur; indiquer également l'adresse d'expédition si elle diffère de l'adresse donnée à la case 5.
- Case 7:** Nom et adresse du destinataire qui figure dans les instructions d'expédition.
- Case 8:** Numéroté l'ordre d'envoi effectué en vertu du contrat, à partir de 001.  
**Nota:** Si un contrat prévoit plusieurs envois, les numéroté de la façon suivante : premier envoi 001 et le dernier envoi doit contenir la lettre <F> à la fin numéro (e.g. 002F).
- Case 9:** Numéro de l'article qui figure dans le contrat ou dans la commande.
- Case 10:** Numéro de nomenclature OTAN ou numéro de nomenclature du pays qui figure dans le contrat.
- Case 11:** Numéro de pièce, de modèle, de type, de dessin ou de catalogue du fabricant ou brève description de l'article. Cette brève description est obligatoire dans le cas des vêtements et des chaussures.
- Case 12:** Numéro de série, de taille ou de lot de l'article.  
**Nota:** Les numéros de taille doivent être inscrits si le contrat est pour des vêtements ou des chaussures. Si cette mention ne s'applique, inscrire [néant].
- Case 13:** Quantité expédiée avec l'unité de mesure qui s'applique dans le contrat.
- Case 14:** Numéro de l'emballage où se trouve l'article.
- Case 15:** Articles à livrer à une date ultérieure, à la destination prévue à la case 7. Si tous les articles ont été livrés à cette destination, inscrire (aucun).
- Case 16:** Laisser en blanc; cette case est réservée pour l'autorité de réception.
- Case 17:** Signature d'un représentant autorisé du service de la qualité du fournisseur. Si plusieurs pages sont utilisées, voir Nota 2 dans les « préparation et distribution ».
- Case 18:** Signature du RAQ responsable de l'assurance officiel de la qualité, s'il y a lieu. Si plusieurs pages sont utilisées, voir Nota 2 dans les « préparation et distribution ».
- Case 19:** Laisser en blanc; cette case est réservée à l'autorité de réception.

TASK AUTHORIZATION AUTORISATION DES TÂCHES	
All invoices/progress claims must show the reference Contract and Task numbers. Toutes les factures doivent indiquer les numéros du contrat et de la tâche.	
Contract no. — N° du contrat	
Task no. — N° de la tâche	
Amendment no. — N° de la modification	Increase/Decrease — Augmentation/Réduction
To — A	Previous value — Valeur précédente
Delivery location — Expédiez à	TO THE CONTRACTOR You are requested to supply the following services in accordance with the terms of the above reference contract. Only services included in the contract shall be supplied against this task. Please advise the undersigned if the completion date cannot be met. Invoices/progress claims shall be prepared in accordance with the instructions set out in the contract.  A L'ENTREPRENEUR Vous êtes prié de fournir les services suivants en conformité des termes du contrat mentionné ci-dessus. Seuls les services mentionnés dans le contrat doivent être fournis à l'appui de cette demande. Prière d'aviser le signataire si la livraison ne peut se faire dans les délais prescrits. Les factures doivent être établies selon les instructions énoncées dans le contrat.
Delivery/Completion date — Date de livraison/d'achèvement	Date _____ for the Department of National Defence pour le ministère de la Défense nationale
Contract item no. N° d'article du contrat	Services
	Cost Prix
	GST/HST TPS/TVH
	Total
<p><b>APPLICABLE ONLY TO PWGSC CONTRACTS:</b> The Contract Authority signature is required when the total value of the DND 626 exceeds the threshold specified in the contract.</p> <p><b>NE S'APPLIQUE QU'AUX CONTRATS DE TPSGC :</b> La signature de l'autorité contractante est requise lorsque la valeur totale du formulaire DND 626 est supérieure au seuil précisé dans le contrat.</p>	
for the Department of Public Works and Government Services pour le ministère des Travaux publics et services gouvernementaux	




**1.8 CF 777 – Unsatisfactory Condition Report (UCR)**

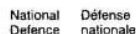
UNSATISFACTORY CONDITION REPORT (UCR) - RAPPORT D'ÉTAT NON SATISFAISANT (RENS)					
1. PRIORITY: PRIORITÉ:	URGENT <input type="checkbox"/>	ROUTINE <input type="checkbox"/>	INFO ONLY INFORMATION SEULEMENT <input type="checkbox"/>	For preparation refer to: Pour préparer référer:	C-02-015-001/AG-000
2. UNIT/BASE/WING/SHIP UNITÉ/BASE/ESCADRE/NAVIRE		3. UCR REF No. N° DE RÉFÉRENCE DU ENS	4. DATE SUBMITTED DATE DU RAPPORT	5. MESSAGE REF. (IF APPLICABLE) RÉFÉRENCE A UN MESSAGE (LE CAS ÉCHÉANT)	
6. IDENTIFICATION DATA/DONNÉES D'IDENTIFICATION		FAILED ITEM/ARTICLE DÉFECTUEUX		NEXT HIGHER ASSEMBLY COMPOSANT IMMÉDIATEMENT SUPÉRIEUR	
7. NOMENCLATURE/ NAME-NOM					
8. NATO STOCK NUMBER N° DE NOMENCLATURE OTAN					
9. PART NO./CIRCUIT DESIGNATION N° DE PIÈCE/NOM DU CIRCUIT					
10. TYPE OR MODEL TYPE OU MODÈLE					
11. SERIAL NUMBER N° DE SÉRIE					
12. MANUFACTURER AND DATE FABRICANT ET DATE			DATE		DATE
13. PLAN/DRAWING NUMBER N° DE PLAN/DE DESSIN					
14. WORK UNIT CODE/GUIDE LIST NO. CODE DE TRAVAIL/LISTE N°					
15. HOURS, MILEAGE, MONTHS, EFC OR ROUNDS FIRED SINCE: NOMBRE D'HEURES, DE MILLES, DE MOIS, DE CHARGES MAXIMALES ÉQUIVALENTES OU DE COUPS TIRÉS DEPUIS:		NEW/FABRICATION	REBUILD/R&O-RÉFLECTION	PLANNED MAINT/ENTRETIEN PÉRIODIQUE	
16. LAST REBUILD/R&O BY DERNIÈRE RÉFECTION PAR			DATE		
17. TYPE OF LAST PLANNED/PREVENTIVE MAINT. GENRE DU DERNIER ENTRETIEN PÉRIODIQUE/PRÉVENTIF		INSPECTION/SCHEDULE NO. INSPECTION/CALENDRIER N°		CARD/ITEM NO. CARTE/ARTICLE N°	ROUTINE COURANT
18. CONTRACT NO. (IF APPLICABLE) N° DE CONTRAT (SI DISPONIBLE)		19. RECEIVED FROM-PROVENANCE		20. SD/IV NO. N° DU BON DE COMMANDE	21. BATCH/LOT No. N° DE LOT
22. INSTALLED ON-ARTICLE INSTALLÉ SUR			23. EQUIP. IDENT./APPL. CODE CODE D'IDENTITÉ/APPL. D'EQUIP		24. CRF/SERIAL NO. MATRICULE FC/ N° DE ÉRIE
AIRCRAFT <input type="checkbox"/> SHIP <input type="checkbox"/> VEHICLE <input type="checkbox"/> SITE <input type="checkbox"/> AÉRONEF NAVIRE VÉHICULE PLACE					
25. SUBJECT OF REPORT-OBJET DU RAPPORT:					

26. FAILURE DATE/DÉFECTUOSITÉ	27. PERSON-HOURS TO REPAIR HEURES-PERSONNES POUR RÉPARER	28. NO. OF PREVIOUS FAILURES (LOCAL) N° DE DÉFECTUOSITÉS ANTÉRIEURES (LOCALES)		
29. DISPOSITION-MESURE PRISE  ENCLOSED/ <input type="checkbox"/> ANNEXÉ HOLDING FOR <input type="checkbox"/> INVESTIGATION FOR DISPOSAL /SERVICE / POUR AFFECTATION RETENU POUR ENQUÊTE RETURNED TO SUPPLY <input type="checkbox"/> FOR DISPOSAL/ RENVOYÉ AU DÉPÔT RETURNED <input type="checkbox"/> TO SERVICE/ REMIS EN SERVICE		30. ENCLOSURES-ANNEXES  PHOTOS <input type="checkbox"/> PHOTOGRAPHIES DRAWINGS <input type="checkbox"/> DESSINS OTHER <input type="checkbox"/> AUTRE		
31. AMPLIFYING DETAILS: (ORIGINATOR) INCLUDE COMPLETE DETAILS SUCH AS (A) DESCRIPTION OF DIFFICULTY (B) DESCRIPTION OF FAILED ITEM (C) ENVIRONMENTAL FACTORS (D) EVENTS PRIOR TO DIFFICULTY (E) PROBABLE CAUSE (F) SECONDARY EFFECTS (G) ACTION TAKEN (H) MOD STATUS (J) RECOMMENDATIONS.		31. DÉTAILS COMPLÉMENTS: (AUTEUR) DONNER DES DÉTAILS COMPLETS TELS QUE (A) EXPOSÉ DU PROBLÈME (B) DESCRIPTION DE L'ARTICLE DÉFECTUEUX (C) FACTEURS D'ENVIRONNEMENT (D) ÉVÉNEMENTS QUI ONT PRÉCÉDÉS LA DÉFECTUOSITÉ (E) CAUSE PROBABLE (F) EFFETS SECONDAIRES (G) MESURES PRISES (H) MODIFICATIONS APPORTÉES (J) RECOMMANDATIONS.		
ORIGINATOR'S NAME-NOM DE L'AUTEUR		RANK-GRADE	APPT.-FONCTION	TEL. NO.-N° DE TÉL
32. <b>SUBSTANTIATION: (DEPARTMENTAL SPECIALIST)</b> INCLUDE RECOMMENDATIONS. INCLUDE DETAILS SUCH AS (A) RESULTS OF RESEARCH (B) EFFECTS ON PERFORMANCE OF EQUIPMENT (C) EFFECTS ON SUB SYSTEMS (D) DOES REPORT WARRANT ACTION? IF SO, INCLUDE RECOMMENDATIONS.		32. <b>JUSTIFICATION/APPROBATION: (AUTORITÉ SUPÉRIEURE SPÉCIALISTE)</b> INCLURE DÉTAILS SUR (A) RÉSULTATS DES RECHERCHES (B) EFFETS SUR LE FONCTIONNEMENT DE L'ÉQUIPEMENT (C) EFFETS SUR LES SOUS-COMPOSANTS (D) DES MESURES ULTÉRIEURES SONT-ELLES JUSTIFIÉES, INCLURE LES RECOMMANDATIONS.		
SIGNATURE:				
APPROVAL: (SENIOR SPECIALIST AUTHORITY)				
JUSTIFICATION: (AUTORITÉ SUPÉRIEURE SPÉCIALISTE)		RANK-GRADE	APPT.-FONCTION	TEL. NO.-N° DE TÉL
				DATE

<p>33. <b>TECHNICAL AUTHORITY (TA) RESPONSE:</b> INCLUDE DETAILS OF ACTION TAKEN TO RESOLVE UNSATISFACTORY CONDITION AND APPROPRIATE DETAILS OF ARRANGEMENTS/AGREEMENTS WITH OCI's</p>		<p>33. <b>REPONSE D'ATORITE FUNCIONELLE:</b> AJOUTER LES DETAILS DES MEASURES PRISES POUR RECTIFIER L'ETAT NON SATISFAISANT ET LES DETAILS APROPRIES CONCERNANT LES ENTENTES AVEC LES BUREAUX DE RESPONSABILITE AUXILIARE (BRA).</p>		
TA NAME/NOM DE AF	RANK-GRADE	APPT.-FONCTION	TEL. NO.-N° DE TÉL	DATE
<p>CF 777 (5-99)</p> <p style="text-align: right;">FORM OPI: DBCM 2-7 FORMULAIR BPR: DCOD 2-7</p>				

## 1.9 DND 2027 – LEMS Equipment Inspection Report

		National Défense	Défense nationale
LEMS EQUIPMENT INSPECTION REPORT			
PERSONNEL AND LOAD CARRYING WHEELED VEHICLES			
INSTRUCTIONS:			
1. WHEN USING THE "ADDRESS-O-GRAPH", PLACE THIS FORM "UPSIDE-DOWN" IN THE MACHINE, AND USE THE SLIDER MECHANISM "ONCE ONLY".			
2. ALL DETAILS PERTAINING TO THIS FORM ARE CONTAINED IN CFTO C-04-020-008/AG-001.			
DND 2027 (06-2009) 7530-21-911-2217 (FORMULAIRE DISPONIBLE EN FRANÇAIS – DND 2029)		Design: Forms Management 613-993-4050 Conception: Gestion des formulaires 613-993-4052	
NOTE: TURN CARBONS BEFORE COMPLETING REVERSE OF FORM			
NOTE: ENSURE CARBONS ARE TURNED BEFORE COMPLETING THIS SIDE OF FORM			



## LEMS EQUIPMENT INSPECTION REPORT

### PERSONNEL AND LOAD CARRYING WHEELED VEHICLES

**NOTE: SAFETY ITEMS ARE SHADED**

VEHICLES IDENTIFIER									
SYSTEM				SUB-SYSTEM					
NOMENCLATURE									
CFR NO.							ECC		

UNIT	DATE
LOCATION	HOURS OF OPERATION
MODEL / TYPE	CONDITION CLASS.
SERIAL NO	TYPE OF INSPECTION
ODOMETER READING	ESTIMATED LABOUR (PERSON HOURS)

**LEGEND:**

✓	= SERVICEABLE
O	= OPERATOR ACTION REQUIRED
M	= MAINTENANCE ACTION REQUIRED

<b>1. ENGINE</b>	<b>2. EXHAUST AND INTAKE SYSTEM</b>	<b>3. COOLING SYSTEM</b>
(A) Oil level	<b>(A) Manifolds</b>	(A) Coolant level / strength
(B) Engine performance	(B) Air cleaner / pipes / connectors	(B) Radiator / cap
(C) Compression	(C) Heat riser	(C) Hoses / connections
(D) Head and valves	(D) Blower and drive	(D) Thermostat
(E) Timing – ignition / injector	(E) Turbo-compressor	(E) Water pump
<b>(F) Governor operation</b>	<b>(F) Guards and shields</b>	(F) Header / overflow tank
(G) Seals and gaskets	<b>(G) Pipes / mufflers / clamps</b>	(G) Fan and shroud
(H) Mounts	(H) Rain vents	(H) Winter front / shutter
(J) Filters – air / oil / fuel	(J) Seals and gaskets	(J) Oil coolers / lines
(K) Pollution control devices	(K) Security of components	(K) Seals and gaskets
(L) Drive belts / pulley / tensioner	(L) Exhaust brake	(L) Fan belts
(M) Oil pump	(M) Intercooler	(M) Air conditioning
<b>(N) Jacob's brake</b>	(N)	(N) Pumps (aux. heater)
(O) Injector drive assembly	(O)	(O)
(P)	(P)	(P)
<b>4. FUEL SYSTEM</b>	<b>5. ELECTRICAL SYSTEM</b>	<b>5. ELECTRICAL SYSTEM (Cont'd)</b>
(A) Tank and cap	(A) Distributor / magneto	<b>(M) Instruments / gauges</b>
(B) Lines / connections	(B) Ignition coil	<b>(N) Circuit breakers / fuses</b>
(C) Seals / gaskets	(C) Spark plugs / wiring	(O) Heaters and controls
(D) Pump / vacuum / pressure test	(D) Generator / alternator	(P) Bilge pumps
(E) Injectors / carburetors	(E) Voltage regulator / relays	(Q) Electric motors / wiring
(F) Linkages	(F) Starter / drives / solenoids	(R) Motor / speed controls
(G) Filters / vents	<b>(G) Horns / sirens / alarms</b>	<b>(S) Safety switches / Master switch</b>
<b>(H) Governor</b>	(H) Cables / wiring / connectors	(T) Microprocessor control unit
(J) Starting aids	(J) Batteries / boxes	(U) Modules / sensors
(K) Fuel lock	(K) Receptacles-slave / trailer	(V) Fuel sending unit / pick-up
(L) Vaporizer	<b>(L) Lights / switches</b>	(W) Solenoids

[illegible]

THE SAFETY INSPECTION AND TESTS REQUIRED BY CFTO'S AND/OR THE PROVINCIAL HIGHWAY TRAFFIC ACT HAVE BEEN COMPLETED AND THE EQUIPMENT IS CERTIFIED SAFE TO OPERATE.


THIS EQUIPMENT IS UNSAFE TO OPERATE AND SHALL BE REMOVED FROM SERVICE UNTIL THE REPAIRS LISTED BELOW ARE COMPLETED.

**URGENT REPAIRS** ➔

THE ABOVE-NOTED REPAIRS AND TESTS HAVE BEEN COMPLETED AND THE EQUIPMENT MAY BE RETURNED TO SERVICE		TECHNICIAN	DATE
		Signature	
INSPECTOR	DATE	MAINTENANCE OFFICER	DATE
Signature		Signature	

[illegible][illegible]

## 1.10 PWGSC - TPSGC 1111—Claim for Progress Payment

 <b>Public Works and Government Services Canada</b> / <b>Travaux publics et Services gouvernementaux Canada</b>		<b>Claim for Progress Payment</b> <b>Demande de paiement progressif</b>		
<i>If necessary, use form PWGSC-TPSGC 1112 to record detail costs</i> <i>Si nécessaire, utiliser le formulaire PWGSC-TPSGC 1112 pour inscrire les coûts</i>				
Contractor's Name and Address Nom et adresse de l'entrepreneur	Claim No. N° de la commande	Date	Contract Price - Prix contractuel	
	File No. - N° du dossier		Contract Serial No. N° de série du contrat	
Contractor's Procurement Business Number (PBN) Numéro d'entreprise-approvisionnement (NEA) de l'entrepreneur		Financial Code(s) - Code(s) financier(s)		
Contractor's Report of Work Progress (If needed, use additional sheets) Compte rendu de l'avancement des travaux par l'entrepreneur (si nécessaire, utiliser des feuilles supplémentaires)				

Period of Work Covered by the Claim Période des travaux visée par la demande	Current Claim Demande courante		Previous Claims Demandes précédentes		Total to Date Total à date
Description: (Expenditures must be claimed in accordance with the basis and/or method of payment of the contract) Description : (Les dépenses doivent être réclamées conformément à la base de paiement ou à la méthode de paiement du contrat).	(A)	Tax Rate Taux de taxe	(B)	Tax Rate Taux de taxe	(A + B)
		%		%	
		%		%	
		%		%	
		%		%	
		%		%	
		%		%	
		%		%	
		%		%	
		%		%	
		%		%	
		%		%	
		%		%	
Contractor's GST No. N° de TPS de l'entrepreneur	Subtotal Sous-total				
Goods and Services Tax (GST) / Harmonized Sales Tax (HST) Taxe sur les produits et services (TPS) / Taxe de vente harmonisée (TVH)					
Total					
Less holdbacks on expenditures only (GST/HST excluded) Moins les retenues sur les dépenses uniquement (TPS/TVH en sus)					
Total Amount of Claim (including GST/HST included) Montant total de la demande (TPS/TVH incluse)					
Percentage of the work completed Pourcentage des travaux achevés	%	Current Claim Demande courante	Amount due Montant dû		

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal

W8476-06-MSMP/L

Part 7 - Resulting Contract - Acquisition

Annex I - Acceptance Procedures



1. **Prerequisite for Equipment Delivery**

- 1.1 Prior to Canada receiving any Delivery End Item from the Contract Line Item (CLIN) series 1000 and 3000, the following prerequisites must be achieved:
  - (a) The Final Copy of the Operator Manual, English and French versions, IAW CDRL SMP-IL-014 and DID SMP-IL-014 must be approved by Canada.
  - (b) The Final Version of the Interactive Electronic Technical Manual (IETM) IAW CDRL SMP-IL-015 and DID SMP-IL-015 must be approved by Canada;
- 1.2 Prior to Canada receiving and accepting the delivery of each Delivery End Item from the CLIN series 1000, 2000 and 3000 at the respective Equipment Fielding Coordination Center (EFCC), the following acceptance prerequisites must be achieved for each piece of equipment:
  - (a) The Quality Conformance Inspection Report IAW Annex B, SOW-97 must be received by Canada.
  - (b) The Pre-Delivery Inspection must be performed by the Contractor at a location no greater than 200km from each EFCC.
- 1.3 The following items must be included with each Deliverable End Item from CLIN series 1000, 2000 and 3000 at delivery:
  - (a) The English and French versions of the Final Copy of the Operator Manual IAW CDRL SMP-IL-014 and DID SMP-IL-014.
  - (b) The tools and equipment listed in Part 7 Annex B – Appendix BA – Attachment BA-2 for each respective variant, trailer and APS.
  - (c) A copy of the Pre-Delivery Inspection Report completed by the Contractor.

2. **Final Inspection and Acceptance**

- 2.1 The Contractor shall deliver each piece of equipment to its respective EFCC for Final Inspection and Acceptance.
  - (c) 2
- 2.2 Final inspection and acceptance for CLIN series 1000 and 3000
  - (a) Vehicle and Trailer - Final Inspection Report – The Inspection Authority will complete the inspection report, DND2027 for each Vehicle and Trailer.
  - (b) CF 1280 - The Contractor shall provide a CF1280 to certify inspection and release for each Vehicle and Trailer. The CF1280 must be presented to the Inspection Authority at the EFCC for signature acknowledging acceptance of the Vehicle and Trailer (Block 19 on the CF1280). The Contractor shall provide a signed copy of the signed CF1280 to the Inspection Authority at the EFCC. The CF1280 shall include the make, model description / number, serial number (VIN) and Canadian Forces Registration (CFR) number for the Vehicle and Trailers.

3. **Final inspection and acceptance for CLIN series 2000**

- 3.1 The Contractor shall deliver each piece of equipment to the EFCC for Final Inspection and Acceptance.
- 3.2 For Add-on Armour (if applicable)

- (a) Verification and acceptance will be accomplished at destination by the EFCC.
  - (b) CF 1280 - The Contractor shall provide a CF1280 to certify inspection and release for each APS. The CF1280 must be presented to the Inspection Authority at the EFCC for signature acknowledging acceptance of the APS (Block 19 on the CF1280). The Contractor shall provide a signed copy of the CF1280 to the Inspection Authority at the EFCC. The CF1280 shall include the make, model description / number and serial number for the APS.
- 3.3 For Armoured Cab: (if applicable)
  - (a) Armoured Cab Final Inspection Report – The Inspection Authority will complete the inspection report, DND2027 for each Armoured Cab.
  - (b) CF 1280 - The Contractor shall provide a CF1280 to certify inspection and release for each APS. The CF1280 must be presented to the Inspection Authority at the EFCC for signature acknowledging acceptance of the APS (Block 19 on the CF1280). The Contractor shall provide a signed copy of the CF1280 to the Inspection Authority at the EFCC. The CF1280 shall include the make, model description / number and serial number for the APS.
- 3.4 For Run-Flat Inserts
  - (a) Verification and acceptance will be accomplished at destination by the EFCC.

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request for Proposal  
W8476-06MSMP/L

Part 8 - Resulting Contract - ISS

THIS RESULTING CONTRACT CONTAINS A SECURITY  
REQUIREMENT

## Table of Contents

<b>1</b>	<b>INTRODUCTION AND REQUIREMENT .....</b>	<b>4</b>
1.1	Background .....	4
1.2	Requirement .....	4
1.3	Period of Performance / Option to Extend the Contract.....	5
1.4	Standard Clauses and Conditions .....	6
1.5	Security Requirement .....	9
1.6	Additional Work Requirements .....	9
1.7	Changes in the Work .....	10
1.8	Waivers and Deviations .....	11
1.9	Pricing of Changes .....	11
1.10	Buyback .....	11
1.11	Defence Contract.....	12
<b>2</b>	<b>AUTHORITIES .....</b>	<b>12</b>
2.1	Contracting Authority .....	12
2.2	Technical Authority .....	12
2.3	Requisition Authority.....	13
2.4	Industrial and Regional Benefits Authority .....	13
2.5	Quality Assurance Authority .....	13
2.6	Contractor's Representative .....	13
<b>3</b>	<b>FINANCIAL.....</b>	<b>13</b>
3.1	Basis of Payment.....	13
3.2	Limitation of Expenditure .....	14
3.3	Deleted.....	15
3.4	Performance Measurement Adjustment.....	15
3.5	Method of Payment .....	16
3.6	Invoicing Instructions .....	17
3.7	Exchange Rate Fluctuation (only applicable if Contractor opted for Foreign Exchange Adjustment when submitting its bid) .....	18
3.8	Taxes - Foreign-based Contractor .....	18
3.9	Time Verification and Acceptance .....	19
3.10	Travel and Living Expenses .....	19
3.11	Customs Duties, Excise Taxes and GST/HST - Non-resident .....	19
3.12	Customs Duties – DND Importer .....	20
3.13	Customs Duties – Contractor Importer.....	20
3.14	Priority Rating (US supplier only) .....	20
3.15	Priority Rating – Canadian-based Contractor.....	20
3.16	T1201 – Direct Request by Customer Department .....	21
3.17	Lien - Section 427 of the Bank Act .....	21
<b>4</b>	<b>DELIVERY, QUALITY, INSPECTION, AND ACCEPTANCE .....</b>	<b>21</b>
4.1	Delivery.....	21
4.2	Packaging and Marking .....	21
4.3	Preparation for Delivery.....	21
4.4	Shipping Instructions .....	22
	Consignee .....	22
4.5	.....	22
4.6	Quality Assurance Authority (DND) - Canadian-based Contractor .....	23
4.7	Quality Assurance Authority (DND) - Foreign-based and United States Contractor .....	23
4.8	ISO 9001:2008 Quality Management Systems - Requirements (QAC Q) .....	24
4.9	Inspection and Acceptance .....	25
4.10	Release Documents (DND) .....	26
4.11	Release Documents – Distribution .....	26
4.12	Canadian Customs Documentation.....	27
4.13	Palletization .....	28
4.14	Condition of Material.....	28
4.15	Wood Packaging Materials.....	28
<b>5</b>	<b>GOVERNMENT PROPERTY .....</b>	<b>28</b>
5.1	Care of Government Property .....	28
5.2	DND Loaned Property .....	29

5.3	Government Furnished Equipment (GFE).....	29
5.4	Government Furnished Information (GFI) .....	30
5.5	Government Supplied Material (GSM) .....	30
5.6	Canadian Forces Site Regulations .....	31
<b>6</b>	<b>ENVIRONMENTAL .....</b>	<b>31</b>
6.1	Dangerous Goods/Hazardous Products.....	31
6.2	Environmental – General .....	31
6.3	Environmental Management System (EMS) Requirement (ISO 14001).....	32
6.4	Controlled Products .....	32
6.5	EHS Compliance .....	33
6.6	Decommissioning and Disposal .....	33
6.7	Radioactive Material .....	34
<b>7</b>	<b>GENERAL TERMS AND CONDITIONS .....</b>	<b>34</b>
7.1	Copyright Provisions.....	34
7.2	Applicable Laws.....	35
7.3	Insurance .....	35
7.4	Deleted .....	37
7.5	Certifications .....	37
7.6	NATO Codification - Data Requirements .....	37
7.7	Controlled Goods.....	38
7.8	Controlled Goods Program .....	38
	Foreign Nationals .....	39
7.9	.....	39
7.10	Dispute Resolution .....	39
7.11	Priority of Documents .....	40
7.12	Contract Closeout .....	40
7.13	Third Party Beneficiaries .....	41
7.14	Ceremonies and Announcements .....	41
7.15	End-User Certificate .....	41

List of Annexes:

Annex A	SRCL
Annex B	Statement of Work
Annex C	Price and Delivery
Annex D	Task Authorization Procedures
Annex E	Spare Parts Ordering Procedures
Annex F	Industrial and Regional Benefits Requirements
Annex G	Certificate of Defence Supplies
Annex H	Forms
Annex I	General Conditions 2035 (2013-04-25)– Higher Complexity – Services
Annex J	Supplemental General Conditions 4006 (2010-08-16)

## RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### 1 INTRODUCTION AND REQUIREMENT

#### 1.1 Background

- 1.1.1 The Department of National Defence (DND) has a requirement to replace its current Medium Logistic Vehicle, Wheeled (MLVW) fleet and associated systems. The project to replace the MLVW fleet is identified as the Medium Support Vehicle System (MSVS) project.
- 1.1.2 The MSVS project consists of four (4) separate procurement activities, as detailed below:
  - a) Militarized Commercial-Off-The-Shelf (MilCOTS) vehicles (Contracted);
  - b) Special Equipment Vehicles (SEV) baseline shelters (Contracted);
  - c) Modification of the SEV shelters (also referred to as "kitting") (Contracted); and
  - d) Standard Military Pattern (SMP) vehicles in five (5) variants: a Cargo variant, a Cargo with Material Handling Crane variant, a Load Handling System (LHS) variant, a Cargo Mobile Repair Truck (MRT) variant and a Gun Tractor Variant. The requirement also includes Trailers, Armour Protection Systems (APS) and various associated equipment; and long term In-Service-Support (ISS) for the SMP vehicles, APS, Trailers and associated equipment.

#### 1.2 Requirement

- 1.2.1 This Contract is for the provision of ISS for the SMP Vehicles, LHS Trailers, APS kits and all other equipment purchased under the SMP Acquisition Contract for up to twenty (20) years; or where the life of the fleet, as determined by Canada in its sole discretion, exceeds twenty (20) years, such longer period in accordance with (IAW) Annex B Statement of Work and subject to the terms of 1.3.1 below.
- 1.2.2 Work also includes, but is not limited to, the following requirements:
  - 1.2.2.1 Provide the Industrial and Regional Benefits (IRB) IAW the commitments set out in Annex F – Industrial and Regional Benefits Requirements; and
  - 1.2.2.2 Perform Additional Work Requirements (AWRs) as authorized IAW Article 1.6 of the Contract.
- 1.2.3 Performance Requirements:
  - 1.2.3.1 The Contractor must meet the performance standards in the Framework for Performance Metrics detailed in Annex B – SOW, Appendix BB, of the Contract.
- 1.2.4 Link to SMP Acquisition Contract
  - 1.2.4.1 In this Contract, unless otherwise stated, the terms found below must be interpreted as follows:
    - 1.2.4.1.1 "SMP Acquisition Contract" means the Contract entered into concurrently with the Contractor for the supply of the SMP Vehicles and related Equipment (W8476-06MSMP/xxx/ – to be inserted at Contract Award);
    - 1.2.4.1.2. "SMP ISS Contract" means this Contract; and
    - 1.2.4.1.3 "SMP Contracts" encompasses the obligations under the SMP ISS and SMP Acquisition Contract.
  - 1.2.4.2 While the SMP Acquisition and SMP ISS Contracts are separate contracts, for administrative purposes, they must be seen as different phases of the same requirement.
  - 1.2.4.3 The Contractor must perform the Work under both Contracts in accordance with the following:
    - 1.2.4.3.1 The Contractor must ensure that all interrelated activities, processes, decisions, changes, deviations, waivers, deliverables to be accepted by Canada under the

SMP Acquisition Contract, meet all obligations under the SMP ISS Contracts;  
and

1.2.4.3.2 The Contractor must manage the linkages between the SMP Contracts. The Work to be performed under the SMP Contracts must be conducted in a seamless, continuous manner. The Contractor must co-ordinate the activities of the SMP Contracts so that the outcomes of one are supportive and consistent with the other.

1.2.4.3.3 The Contractor must not interpret anything presented in the SOWs to both SMP Contracts' as requiring duplication of management planning or execution effort. The Contractor must notify Canada of any discrepancy, issues or improvement opportunities associated with the requirements defined in the SMP Contracts.

1.2.4.3.4 The Contractor must transition the Work or any part thereof under the SMP Acquisition Contract to the SMP ISS Contract IAW the ISS SOW, Annex B, Section 1.1.2, SMP Acquisition Contract legacy.

**1.2.5** Definitions:

1.2.5.1 "Deliverable" or "Item" or "Deliverable End-Item (DEI)" or "Contract Line Item Number (CLIN)" means a portion of the Work, that is an item, service or data stipulated in Annex C – Price and Delivery, and which is to be produced, sold and delivered by the Contractor to Canada under this Contract;

1.2.5.2 "Must", "Shall", "Will", "Is Required" "Mandatory" means requirements that the Contractor is contractually obliged to deliver and meet;

1.2.5.3 "Should" means requirements that are considered ideal, but not Mandatory;

1.2.5.4 "Laid- down Cost" – The cost incurred by a supplier to acquire a specific product or service for resale to the government. This includes the supplier's invoice price (less trade discounts), plus any applicable charges for incoming transportation, foreign exchange, customs duty and brokerage, but excludes the Goods and Services Tax and the Harmonized Sales Tax.

**1.3 Period of Performance / Option to Extend the Contract**

**1.3.1** Period of Performance

1.3.1.1 The Contractor must perform the services identified in the Contract for all Work authorized for a period of five (5) years from Contract award. The Period of Performance may be extended in accordance with Article 1.3.2, Option to Extend the Contract.

**1.3.2** Option to Extend the Contract

1.3.2.1 The Contractor grants to Canada irrevocable options to extend the term of the Contract by up to fifteen (15) additional years or such longer period where the life of the fleet exceeds twenty (20) years, to be exercised in increments of up to five (5) years under the same conditions specified in this Contract. The Contractor agrees that, during the extended period of the Contract, it will be paid the firm prices, rates and mark-ups negotiated IAW Annex C – Price and Delivery, Appendix 9, Price Negotiation Methodology for Option Years, of the Contract.

1.3.2.2 Subject to the Contractor meeting the performance standards as defined in Annex B – SOW, Appendix BB, Performance Metrics, of the Contract, Canada may exercise these options at any time by sending a written notice to the Contractor at least 120 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

- 1.3.2.3 The Contractor acknowledges and agrees that in the event Canada exercises the Options to Extend the Contract, under this Article, or where the Contract is to be amended, the level of Industrial and Regional Direct and Indirect Benefits to be achieved by the Contractor will be correspondingly either increased or decreased as specified in Annex F – Industrial and Regional Benefits Requirements.

#### **1.4 Standard Clauses and Conditions**

- 1.4.1 All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

- 1.4.2 General Conditions  
2035 (2013-04-25) General Conditions - Higher Complexity – Services (attached as Annex I) apply to and form part of the Contract.

- 1.4.3 Supplemental Conditions

- 1.4.3.1 4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information apply to and form part of the Contract (attached as Annex J), with the following exceptions:

- 1.4.3.1.1. At 4006 01 (2008-05-12) Interpretation sub-Article 1:

Delete: Definition of “Background Information”

Insert: “Background Information” means all Intellectual Property that is not Foreground Information and that is proprietary to or the confidential information of the Contractor, its subcontractors or any other third party.

- 1.4.3.1.2 At 4006 - 01 (2008-05-12) Interpretation:

sub-article 1, insert new definitions as follows:

“Interface Control Documents (ICDs)” means the documentation, including drawings, that describe the physical, functional, electrical and logical interfaces between the MSVS systems, subsystems and major assemblies, training devices, simulators and Government Property. The ICDs are identified in the SMP Acquisition Statement of Work.

“Provisioning Data” means the various data and documentation needed by DND, to identify, catalogue, procure and distribute the repairable and consumable spares used in the maintenance done by DND. It includes the Provisioning Parts Breakdown (PPB), Recommended Spare Parts List (RSPL), Long Lead Time Items List (LLTIL), Interim Spares List (ISL), Special Tools and Test Equipment (STTE) List, Supplementary Provisioning Technical Documentation (SPTD), Repair and Overhaul (R&O) Candidate Items List and Logistics Support Analysis (LSA) data. This data is identified in the SMP Acquisition Statement of Work.

“Specific Data” means the specific element of the SMP Technical Data Package (TDP) which are required to be provided upon request by Canada and required for the maintenance, as well as other Canada responsibilities such as Contract oversight, safety oversight, equipment improvements, fleet management and operations.



“Technical Information” means the technical manuals, maintenance manuals, user’s manuals, operator’s manuals, courseware, training packages, data required for the Electronic Information Environment (EIE), non-standard repair instructions, and the like that are delivered or required to be delivered under the Contract and Intellectual Property as is necessary for inclusion in Canadian Forces Technical Orders (CFTO), Standard Operating Procedures, Canadian Forces Administrative Orders, Defence Administrative Orders and Directives, and the like for Canada to fulfill its responsibilities for the operation, maintenance, repair and overhaul, training and safety-related activities of the SMP equipment and ancillaries.

1.4.3.1.3 At 4006 04 (2008-05-12) Licenses to Intellectual Property Rights in Foreground and Background Information sub-Article 1:

Delete: The Contractor also grants to Canada a license to use the Background Information to the extent that it is reasonably necessary for Canada to exercise fully all its rights in the deliverables and in the Foreground Information.

Insert: The Contractor also grants to Canada a license to use the Background Information to exercise fully all its right in the deliverables and in the Foreground Information, including but not limited to, the right to use the Background Information in the Interface Control Documents, Provisioning Data, Specific Data and in any Technical Information delivered or required to be provided under the SMP Acquisition Contract and the SMP ISS Contract, for the use, operation, maintenance, repair or overhaul of the SMP equipment.”

1.4.3.4 At 4006 04 (2008-05-12) Licenses to Intellectual Property Rights in Foreground and Background Information sub-Article 3(d):

Delete: In its entirety

Insert: Without restricting the scope of any license or other right in the Background Information that Canada may otherwise hold, to exercise such of the Intellectual Property Rights in the Background Information as may be required upon the occurrence of any of the following events:

1. Canada terminates the contract for default;
2. The Contractor or its supplier, as applicable, ceases to do business, becomes bankrupt or insolvent, makes an assignment for the benefit of creditors, or takes the benefit of any statute relating to bankrupt or insolvent debtors; or
3. Canada requires support from the Contractor to operate, maintain, repair, modify or adapt the Work during their operational life and the Contractor is incapable or unwilling (for whatever reason) to provide the support for this purpose, on reasonable commercial terms commencing within thirty (30) days after a written request from the Minister. Canada’s right includes the right to disclose the Background Information to third parties engaged by Canada and Canada will require these third parties not to use, reproduce or disclose that information except as may be necessary to support the SMP equipment. Canada’s right includes the right to manufacture or to have manufactured parts for the SMP equipment.

1.4.4 Warranty:

1. Despite inspection and acceptance of the Work by or on behalf of Canada and without restricting any other provision of the Contract or any condition, warranty or provision imposed by law, the Contractor warrants for a minimum period of twelve (12) months (or any other period stated in the Contract), the Work will be free from all defects in design, material or workmanship, and will conform to the requirements of the Contract. The warranty period begins on the date of delivery, or if acceptance takes place at a later date, the date of acceptance. With respect to Government Property not supplied by the Contractor, the Contractor's warranty will extend only to its proper incorporation into the Work.
2. In the event of a defect or non-conformance in any part of the Work during the warranty period, the Contractor, at the request of Canada to do so, must as soon as possible repair, replace or otherwise make good at its own option and expense the part of the Work found to be defective or not in conformance with the requirements of the Contract.
3. The Work or any part of the Work found to be defective or non-conforming will be returned to the Contractor's plant for replacement, repair or making good. However, when in the opinion of Canada it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be paid the fair and reasonable Cost (including reasonable travel and living expenses) incurred in so doing, with no allowance for profit, less an amount equal to the Cost of rectifying the defect or non-conformance at the Contractor's plant.
4. Canada must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant pursuant to subsection 3. The Contractor must pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location directed by Canada.
5. The Contractor must remedy all data and reports pertaining to any correction or replacement under this section, including revisions and updating of all affected data, manuals, publications, software and drawings called for under the Contract, at no cost to Canada.
6. If the Contractor fails to fulfill any obligation described in this section within a reasonable time of receiving a notice, Canada will have the right to remedy or to have remedied the defective or non-conforming work at the Contractor's expense. If Canada does not wish to correct or replace the defective or non-conforming work, an equitable reduction will be made in the Contract Price.
7. The warranty period is automatically extended by the duration of any period or periods where the Work is unavailable for use or cannot be used because of a defect or non-conformance during the original warranty period. The warranty applies to any part of the Work repaired, replaced or otherwise made good pursuant to subsection 2, for the greater of:
  - a. The warranty period remaining, including the extension, or
  - b. Ninety (90) days or such other period as may be specified for that purpose by agreement between the Parties.

For clarification purposes nothing in this Contract shall modify or amend warranties given by the Contractor under the SMP Acquisition Contract.

8. Notwithstanding the foregoing, the Contractor must assign to Canada any warranties provided by its subcontractors for any components supplied by them for incorporation into the Work that exceeds the basic warranty required by this Article, to the extent any such warranties are assignable to Canada or, when such warranties are not assignable, will exercise them on behalf of Canada.

## 1.5 Security Requirement

- 1.5.1 The following security requirement (SRCL and related clauses) applies and form part of the Contract.

### 1.5.3 Security Clause for Canadian Suppliers:

- 1.5.3.1 The Contractor must, at all times during the performance of the Contract, hold a valid Facility Security Clearance at the level of SECRET, with approved Document Safeguarding and Production Capabilities at the level of SECRET, issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
- 1.5.3.2 The Contractor personnel requiring access to PROTECTED/CLASSIFIED information, assets or sensitive work site(s) must EACH hold a valid personnel security screening at the level of RELIABILITY or SECRET, as required, granted or approved by the CISD, PWGSC. Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the Canadian Industrial Security Directorate, Public Works and Government Services Canada, the Contractor personnel MAY NOT HAVE ACCESS to PROTECTED/CLASSIFIED information or assets, and MAY NOT ENTER sites where such information or assets are kept, without an escort.
- 1.5.3.3 Processing of PROTECTED/CLASSIFIED information electronically at the Contractor's site is NOT permitted under this Contract.
- 1.5.3.4 Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
- 1.5.3.5 The Contractor must comply with the provisions of the:
  - a) Security Requirements Check List, attached as Annex A to this Contract; and
  - b) Industrial Security Manual (Latest Edition).

***Note to Bidders: Country Specific Security Requirement clauses will be inserted at Contract Award.***

### 1.5.2 Contractor's Site or Premises Requiring Safeguard Measures

The Contractor must diligently maintain up-to-date, the information related to the Contractor's site or premises, where safeguard measures are required in the performance of the Work, for the following addresses:

Address:

Street Number / Street Name, Unit / Suite / Apartment Number

City, Province, Territory / State

Postal Code / Zip Code

Country

## 1.6 Additional Work Requirements

- 1.6.1 Additional Work Requirements can encompass Work that is either:

- 1.6.1.1 Included within the current Contract requirements and defined as Arising Work Activities as identified in Annex B of the ISS SOW. Such work can be authorized using a Task Authorization, Spare Parts Order, Free-Flow Component, or Contract Amendment; or
- 1.6.1.2 Work that is not included within the current Contract requirements, but within the scope of the Contract. Such work can be authorized using a Task Authorization or Contract Amendment.
- 1.6.2 Contract Amendments. In the event that modifications, i.e. Design Changes, Engineering Change or other additional work are introduced, such changes/additional work will be authorized/implemented IAW Article 1.7, Change in the Work, and if applicable associated costs and level of effort will be negotiated IAW Article 1.9, Pricing of Changes.
- 1.6.3 Task Authorizations. As and when requested, and in accordance with the Statement of Work, the Contractor will be required to initiate and perform tasks based on specified requirements to be defined throughout the duration of the Contract. The Contractor will be authorized IAW Annex D – Task Authorization Procedures, and priced IAW Article 1.9, Pricing of Changes, if applicable. The Contractor must not proceed with the work until receiving a duly signed and authorized Task Authorization. The Contractor shall perform and manage the Task Authorizations as per the process described at Annex D, Task Authorization Procedure.
- 1.6.4 Spare Part Orders. When identified by Canada and in accordance with Annex B, Statement of Work, the Contractor will be required to provide Re-Procurement of spares identified in Annex C, Appendix 3, Tables 1 & 2. The Contractor shall not commence activities until receiving a duly authorized Spare Parts Order in accordance with Annex E, Spare Parts Procurement Process. The Contractor shall perform and manage Spare Part orders as per the process described at Annex E, Spare Parts Ordering Process.
- 1.6.5 For Free-Flow Component Work. Upon receipt of a Free-Flow component identified in Annex C, Appendix 4 – Table 1, the Contractor is authorized to perform the work. The Contractor will be paid in accordance with Article 3.1.1.5 below.

## **1.7 Changes in the Work**

- 1.7.1 The Contracting Authority may, by notice, from time to time, request changes (additions, deletions, substitutions) in the Work, if the change is deemed by Canada to be within the general scope of the Contract. Upon receipt of such notice, the Contractor must prepare a proposal or if applicable submit an Engineering Change Proposal (ECP) as detailed in Section 3.4.5.1.3.1, ECP, of the ISS SOW (Annex B to this Contract).
- 1.7.2 Any adjustment to the Contract Price must be IAW Article 1.9, Pricing of Changes, of the Contract.
- 1.7.3 If applicable, an ECP must be completed to provide a formal reference to the change in Specification.
- 1.7.4 No variation of any nature to this Contract and no representation, agreement, arrangement or other communication will be effective and binding unless it is in writing and made or granted by:
  - 1.7.4.1 An approved ECP, Deviation or Waiver accepted in writing by the Contracting Authority (CA) as applicable; or
  - 1.7.4.2 An amendment executed by the CA and the authorized signing officer of the Contractor.

- 1.7.5 No change in the work or no increase in price because of changes in the Work will be recognized under this Contract, except in accordance with the provisions described in this Article.
- 1.7.6 No one other than the CA has the authority to approve any amendments or changes to this Contract. The Contractor must promptly report to the CA any direction given by anyone other than the CA that might result in any such amendments or change.
- 1.7.7 A Contract Amendment may be issued periodically to incorporate the changes in the Contract.

## **1.8 Waivers and Deviations**

- 1.8.1 Where applicable, the Contractor may submit a Request for Waiver (RFW) or a Request for Deviation (RFD) in accordance with Section 3.4.5.1.3.2, Request for Deviation/Waiver, of the ISS SOW (Annex B to this Contract).
- 1.8.2 Where an RFW or RFD has an impact on the delivery schedule, the Contract Price or any other aspect of the Contract, it must include all of the relevant details including a cost proposal IAW Pricing of Change Article 1.9 where applicable.
- 1.8.3 The RFW and RFD are effective upon their approval in writing by the Contract Authority.

## **1.9 Pricing of Changes**

- 1.9.1 If any change directed under Articles 1.6 – Additional Work Requirements or 1.7 - Changes in the Work, causes an increase or decrease in the cost of performing the Work or the time of performance, then the Contract Price, the time for performance and other affected provisions will be adjusted as follows:
  - 1.9.1.1 A forecast of the effect on the delivery schedule; and
  - 1.9.1.2 Any other pertinent factors other than those referred to in this Sub Article.
- 1.9.2 For pricing of changes, the Contractor must provide a proposal with:
  - a) detailed cost breakdown estimates of Labour using the rates and overheads at Annex C – Price and Delivery, Appendix 6, Table 1 for the period in which the Work is performed;
  - b) detailed cost breakdown estimates of material and of any other direct costs using duly supported documentation (from supplier, sub-contractor quotations, or other appropriate documentation accepted by Canada).
- 1.9.2.1 For direct Labour: Proposed direct labour hours expended at the rates plus overheads and profit as set out in Annex C – Price and Delivery, for the period in which the work is.
- 1.9.2.2 For materials and subcontracts: Proposed Laid Down Cost plus overheads and profits as set out in Annex C – Price and Delivery, for the period in which the materials and subcontracts are incorporated into the Work.
- 1.9.2.3 For Travel and Living Expenses: Authorized travel and living expenses, IAW Article 3.10, reasonably incurred in the performance of the Work, at cost, without allowance for overhead and profit.

## **1.10 Buyback**

- 1.10.1 In the event that the Contractor initiates a change or modification to the Work, thus resulting in a change or replacement of any ordered item set out in Annex C, Appendix 2 and 3, the following procedure will be followed:
- 1.10.1.1 Where an item has not been delivered to Canada, the Contractor will suspend delivery;
  - 1.10.1.2 Where the item has been delivered to Canada, and it can be used for its intended purpose, notify Canada;
  - 1.10.1.3 Where the item has been delivered to Canada and in the opinion of the Contractor and Canada can be reworked so as to comply with the requirements of the Contract, rework the item at no additional cost to Canada; or
  - 1.10.1.4 In all other cases, buy the affected item from Canada, through the issuance of a credit to Canada for such item, and either accept the return of such item or provide disposal instructions to Canada.
- 1.10.2 Canada will return the item to the Contractor or dispose of it, as per instructions provided by the Contractor. Canada may deduct the price of the affected item for which a credit has been issued from any outstanding invoice received from the Contractor for the Work. The CA will amend the Contract so as to include the changed or replacement item.

## **1.11 Defence Contract**

- 1.11.1 The Contract is a defence contract within the meaning of the *Defence Production Act*, R.S.C. 1985, c. D-1, and must be governed accordingly.
- 1.11.2 Title to the Work or to any materials, parts, work-in-process or finished work must belong to Canada free and clear of all claims, liens, attachments, charges or encumbrances. Canada is entitled, at any time, to remove, sell or dispose of the Work or any part of the Work in accordance with section 20 of the Defence Production Act.

## **2 AUTHORITIES**

### **2.1 Contracting Authority**

The Contracting Authority for the Contract is:

*To be inserted at Contract Award.*

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

### **2.2 Technical Authority**

The Technical Authority for the Contract is:

*To be inserted at Contract award.*

The Technical Authority is the DND representative responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a Contract Amendment issued by the Contracting Authority.

## **2.3 Requisition Authority**

The Requisition Authority for the Contract is:

*To be inserted at Contract award.*

The Requisitioning Authority is a representative of the department for whom the Work is being carried out under the Contract. The Requisitioning Authority is responsible for the department's contract and financial management and the implementation of tools and processes required for the administration of the Contract, such as Task Authorizations. The Contractor may discuss administrative matters identified in the Contract with the Requisitioning Authority; however the Requisitioning Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

## **2.4 Industrial and Regional Benefits Authority**

The IRB Authority for the Contract is:

*To be inserted at Contract award.*

The IRB Authority is the Industry Canada representative responsible for all matters concerning the IRB requirements in the Contract. IRB matters should be discussed with the IRB Authority. However, changes to the Contract can only be made through a Contract Amendment issued by the Contracting Authority.

## **2.5 Quality Assurance Authority**

DQA-Directorate Quality Assurance  
National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: [ContractAdmin.DQA@forces.gc.ca](mailto:ContractAdmin.DQA@forces.gc.ca)

DQA is the Quality Assurance Authority of the Department of National Defence for whom the work is being carried out under this Contract.

DQA is responsible to monitor the Supplier's Quality Management System to provide confidence that the Supplier has the ability to fulfill the quality requirements in the contract.

## **2.6 Contractor's Representative**

The Contractor's Representative for the Contract is:

*To be inserted at Contract award.*

The Contractor's Representative is the person delegated by the Contractor who is responsible for the management and all technical and administrative matters relating to the Contract.

# **3 FINANCIAL**

## **3.1 Basis of Payment**

- 3.1.1 In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid in Canadian funds, Delivered Duty Paid (DDP) (Consignee) as per Incoterms 2000, unless stated otherwise, Customs duties included, and Goods and Services or Harmonized Sales Tax (GST/HST) extra, if applicable, as follows:

- 3.1.1.1 Firm Monthly Prices for Project Management & Deliverables IAW Annex C – Price and Delivery, Appendix 1, Table 1;
- 3.1.1.2 Ceiling and Firm Prices for the Initial Provisioning Spares IAW Annex C – Price and Delivery, Appendix 3, Table 1;
- 3.1.1.3 Firm Unit Prices for Special Tools and Test Equipment (STTE) IAW Annex C – Price and Delivery, Appendix 2, Table 2;
- 3.1.1.4 Firm Unit Prices for the Re-Procurement of Spare Parts IAW Annex C – Price and Delivery, Appendix 3, Tables 1 and 2;
- 3.1.1.5 Firm Unit Prices for the R&O of Free-Flow Components IAW Annex C – Price and Delivery, Appendix 4, Table 1;
- 3.1.1.6 Firm Unit/Lot Price, Ceiling Price, or Limitation of Expenditure IAW Tasks authorized IAW Article 1.6, Additional Work Requirements, of the Contract and priced IAW Article 1.9, Pricing of Changes, of the Contract; and
- 3.1.1.7 Firm Labour Rates for the Labour Categories IAW Annex C – Price and Delivery, Appendix 6, Table 1.

## 3.2 Limitation of Expenditure

### 3.2.1 Limitation of Expenditure

- 3.2.1.1 The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment Article 3.1 of the Contract, to a limitation of expenditure of ***\$[to be inserted at Contract Award]***. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable

- i - The Contractor must not perform any work or service(s) or supply any article(s) which would cause the total cost to Canada to exceed the said sum.
- ii - The Contractor shall notify the Contracting Authority in writing as to the adequacy of this sum when:
  - a) it is 75 percent committed, or
  - b) four (4) months prior to the Contract expiry date, or
  - c) as soon as the Contractor considers that the Contract funds provided are adequate for the completion of the Work, whichever comes first.

- 3.2.1.2 If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

- 3.2.1.3 No payments must be made to the Contractor in excess of the amount shown above unless the Contracting Authority has approved the changes in writing. No increase in the total liability of Canada or in the price of Work resulting from, such as but not limited to: design changes, ECP, modifications or interpretations of specifications, made by the Contractor, will be authorized or paid to the Contractor unless such changes, modifications or interpretations, have been approved, in writing by the Contracting Authority, prior to their incorporation of the Work. The Contractor must not be obliged to perform any Work or provide any service(s) without prior approval from the Contracting Authority.



### 3.3 Deleted

### 3.4 Performance Measurement Adjustment

- 3.4.1 The quality of the service delivered by the Contractor is critical to the success of the SMP In-Service Support Program and as such this Contract contains elements to provide incentives and disincentives to the Contractor based on the Contractors Performance.
- 3.4.2 The actual damages, which would be sustained by Canada in the event that the Contractor fails to meet the Statement of Work requirements, would be commercially impracticable or extremely difficult to compute or to ascertain. The Parties agree that the disincentives credits described below constitute liquidated damages and are their best pre-estimate of the loss to Canada in the event that the Contractor delivers services below the service standard outlined in the SOW; no such credit is intended to be, nor it is to be construed as a penalty. Canada is also making available Performance Incentive Fee (PIF) to encourage the Contractor to provide the management, labour and supervision required to exceed the performance requirement under the Contract.
- 3.4.3 The amount of PIF payable to the Contractor by Canada or the disincentive payable to Canada by the Contractor will be determined by the Contract Performance Review Board (CPRB), in accordance with the Annual Performance Assessment Report approved by the CPRB, and will not be subject to appeal nor to the Dispute Resolution Provisions of the Contract.
- 3.4.4 Canada will make available a PIF (GST/HST extra) up to a maximum of 6% of the Yearly Management Fee (Monthly Management fee X 12) as outlined in the Annex B, Appendix BB, Performance Metrics.
- 3.4.5 Application

The amounts payable under the Basis of Payment for Project Management Fee as detailed in Annex C – Price and Delivery, Appendix 1, Table 1 Item 1-1-001 is subject to the payment adjustment provisions contained in Annex B – SOW, Appendix BB, Performance Metrics.

- i - The performance adjustment related to the Performance Metrics will be implemented annually, and the first period subject to the adjustment will be Year 6 which begins in the 6<sup>th</sup> year of the Contract, should the option to extend the contract be exercised; and
- ii - Once the Annual Performance Assessment Report is submitted and accepted by Canada, the Contractor must make any required billing adjustment related to the payment adjustment on the next monthly invoice submitted for payment.

#### 3.4.6 Calculation of the Performance Incentive or Disincentive Credit

The amount of Performance Incentive Fee or disincentive credit payable will be determined IAW the Composite Performance Score (CPS) outlined in Annex B – SOW, Appendix BB, Performance Metrics article 1.4.2.

#### 3.4.7 Payment/credit

- 3.4.7.1 A Performance Incentive Fee will be payable to the Contractor by Canada when the CPS results in a positive score. The payment to the Contractor will be made, once per year, the month following the approval of the Annual Performance Assessment Report.
- 3.4.7.2 A disincentive credit will be payable by the Contractor when the CPS results in a negative score. The Contractor will reimburse Canada, no less than one month

following the receipt of the Annual Performance Assessment Report a credit equal to the value determined in 3.4.6 above.

3.4.7.3 Nil Performance = When the CPS results in a "0" value, there will be no payment to the Contractor nor payment reduction.

3.4.8 Holdback

3.4.8.1 Canada will have the right to hold back, drawback, deduct or set off from and against the amounts of any monies owing at any time by Canada to the Contractor, any payment adjustment owing and unpaid under this provision.

3.4.9 Remedies

3.4.9.1 Nothing in this Article is to be interpreted as limiting the rights and remedies to which Canada may otherwise be entitled under this contract, including the rights to terminate the Contract for Default.

3.4.10 Audit

3.4.10.1 The Contractor's calculations under the Performance Metrics are subject to verifications by government audit, at the Contracting Authority's discretion, before and after payment is made to the Contractor under the terms and conditions of this contract. The Contractor shall cooperate fully with Canada during the conduct of any such audit by providing Canada with access to such records and systems as Canada considers necessary to ensure that all credits have been accurately credited to Canada in the Contractor's invoices. If, as a result of conducting such an audit, Canada determines that the Contractor's records or systems for identifying, calculating and recording the credits are inadequate, the Contractor shall implement such additional measures as may be required by the Contracting Authority.

**3.5 Method of Payment**

3.5.1 Monthly Payments – Project Management & Deliverables (Annex C, Price and Delivery)

3.5.1.1 Canada will pay the Contractor on a monthly basis for Work performed during the month covered by the invoice IAW the payment provisions of the Contract if:

- (a) an accurate and complete invoice and any other documents required by Canada have been submitted in accordance with the invoicing instructions provided in the Contract;
- (b) all such documents have been verified by Canada;
- (c) the Work performed has been accepted by Canada.

3.5.2 Multiple Payments - Spare Part Orders (Initial Procurement/Re-Procurement Spare Parts) and Free Flow Component work orders (processed through DND's CFSS). (Annex C, Price and Delivery)

3.5.2.1 Canada will pay the Contractor upon completion and delivery of units in accordance with the payment provisions of the Contract if:

- (a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (b) all such documents have been verified by Canada; and
- (c) the Work delivered has been accepted by Canada.

3.5.3 Task Authorizations

3.5.3.1 Canada will pay the Contractor upon completion, delivery and acceptance of all the work, or portions thereof, as specified under the Task Authorization of the Contract if:

- a) an accurate and complete invoice and any other documents required by Canada have been submitted in accordance with the invoicing instructions provided in the Contract;
- b) all such documents have been verified by Canada; and

- c) the Work delivered has been accepted by Canada.

#### 3.5.4 Performance Incentive Fee (Annex B, Appendix BB)

Canada will pay the Contractor for any Performance Incentive Fee if:

- (a) an accurate and complete invoice and a copy of the Annual Performance Assessment Report have been submitted by the contractor in accordance with the invoicing instructions provided in the Contract; and
- (b) all such documents have been accepted by Canada.

### 3.6 Invoicing Instructions

- 3.6.1 The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment (example in Annex H).

Each claim must show:

- (a) all information required on form PWGSC-TPSGC 1111;
- (b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;

- 3.6.2 Each claim must be supported by the following:

- 3.6.2.1 For monthly Project Management Fee:

As may be required.

- 3.6.2.2 For Task Authorizations:

Where applicable and outlined in the Task Authorization:

- (a) Signed Task Closure letter for final payment.
- (b) A copy of time sheets to support the time claimed;
- (c) A copy of the release document and any other documents as specified in Article 4.11, Release Documents – Distribution, of the Contract;
- (d) Original invoices, receipts, vouchers for all travel and living expenses; and
- (e) A copy of the reports as applicable.

- 3.6.2.3 For Field Service Representatives:

- a) A copy of time sheets substantiating the required working hours; Should required minimum working hours not be met, the invoice must be reduced to reflect the actual time worked, pro-rated to the applicable business days for the month claimed.
- b) A copy of the reports as applicable;

- 3.6.2.4 For Spare Parts/STTE and Repair and Overhaul (R&O) components:

- a) A copy of the release document and any other documents as specified in Article 4.11, Release Documents – Distribution, of the Contract;

- 3.6.2.5 Invoices must be distributed as follows:

- a) The original and one (1) copy must be forwarded to the Requisition Authority identified under Article 2.3 of the Contract.
- b) One (1) copy must be forwarded to the Contracting Authority identified under Article 2.1 of the Contract.

- 3.6.2.6 Performance Incentive Fee

- a) A copy of the Annual Performance Assessment Report.

- 3.6.3 The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Requisition Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.
- 3.6.4 The Requisition Authority will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.
- 3.6.5 The Contractor must not submit claims until all work identified in the claim is completed.

**3.7 Exchange Rate Fluctuation (*only applicable if Contractor opted for Foreign Exchange Adjustment when submitting its bid*)**

- 3.7.1 The prices and/or rates detailed in Annex C – Price and Delivery, include a Foreign Currency Component (FCC) for goods and/or services originating outside Canada. The foreign currency components are detailed in Annex C - Price and Delivery, Appendix 8, Claim for Exchange Rate Adjustments.
- 3.7.2 The prices and/or rates paid will be adjusted based on the exchange rate adjustment amount. The initial exchange rate will be the noon rate quoted by the Bank of Canada in effect on date of bid closing. The exchange rate for adjustment purposes will be the noon rate quoted by the Bank of Canada on the applicable date determined as follows:
  - 3.7.2.1 For items with payment on delivery or milestone payments - the date the item is delivered and accepted by Canada; and
  - 3.7.2.2 For items with monthly progress payments - the date of the last working day of activity for which payment is being claimed.
- 3.7.3 The exchange rate adjustment will be calculated as follows:  
Adjustment =  $FCC * (i1 - i0) / i0$   
Where, FCC = Foreign Currency Component in Canadian dollars, provided at bid submission  
 $i0$  = initial exchange rate (\$CAN per unit of foreign currency)  
 $i1$  = exchange rate for adjustment purposes (\$CAN per unit of foreign currency)
- 3.7.4 This calculation must be done for each applicable line item and the sum of adjustments must be shown as a single line item on the invoice.
- 3.7.5 The exchange rate adjustment will only be applied when the rate change is greater than 2% (+ or -) (i.e.  $abs[(i1 - i0) / i0] > .02$ ), where "abs" represents the absolute value.
- 3.7.6 The Contractor must complete and submit form PWGSC-TPSGC 450, Claim for Exchange Rate Adjustment (which can be found in Annex C - Price and Delivery, Appendix 8) with the invoice for payments with respect to items with a Foreign Currency Component. The Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract.
- 3.7.7 Canada will have the right to audit any revision to costs and prices and/or rates under this clause.

**3.8 Taxes - Foreign-based Contractor**

- 3.8.1 Unless specified otherwise in the Contract, the price includes no amount for any federal excise tax, state or local sales or use tax, or any other tax of a similar nature, or any Canadian tax whatsoever. The price, however, includes all other taxes. If the Work is normally subject to federal excise tax, Canada will, upon request, provide the

Contractor a certificate of exemption from such federal excise tax in the form prescribed by the federal regulations.

- 3.8.2 Canada will provide the Contractor evidence of export that may be requested by the tax authorities. If, as a result of Canada's failure to do so, the Contractor has to pay federal excise tax, Canada will reimburse the Contractor if the Contractor takes such steps as Canada may require to recover any payment made by the Contractor. The Contractor must refund to Canada any amount so recovered.

### **3.9 Time Verification and Acceptance**

- 3.9.1 Time charged and the accuracy of the Contractor's time recording system are subject to verification and acceptance by Canada, before or after payment is made to the Contractor. If verification is done after payment, the Contractor must repay any overpayment, at Canada's request.

### **3.10 Travel and Living Expenses**

- 3.10.1 To perform the Work, Contractor personnel may be required to travel to military establishments or other locations as may be designated by the Technical Authority. When required, travel will be authorized using a Task Authorization in accordance with Article 1.6.3.
- 3.10.2 The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive (<http://www.njc-cnm.gc.ca/directive/travel-voyage/index-eng.php>), and with the other provisions of the directive referring to "travelers", rather than those referring to "employees".
- 3.10.3 All travel must have the prior authorization of the Requisition Authority and/or Technical Authority and/or Contracting Authority as identified in the Task Authorization.
- 3.10.4 All payments are subject to government audit.
- 3.10.5 Canada will not accept any travel and living expenses incurred by the Contractor, except where indicated otherwise in the Contract.
- 3.10.6 Travel and living expenses relating to Initial FSR Support are included in the Firm Rates for FSRs if the FSR travel location is within 75 km of the FSR assigned work location. Otherwise, travel and related living expenses are extra and will be paid IAW with Article 3.10.2.
- 3.10.7 Canada will not accept any travel and living expenses incurred by the Contractor as a consequence of any relocation required to satisfy the terms of the Contract.

### **3.11 Customs Duties, Excise Taxes and GST/HST - Non-resident**

- 3.11.1 The Contractor is responsible for customs clearance of any tools, equipment or spare parts imported into Canada by its employees or a subcontractor and its employees for use in performing the Work under the Contract. The Contractor is responsible for any customs duties, excise taxes and the Goods and Services Tax or Harmonized Sales Tax, if applicable, assessed by the customs officials and payable to the Canada Border Services Agency.

### **3.12 Customs Duties – DND Importer**

- 3.12.1 As the goods to be supplied under the Contract are defence supplies, customs duties on importation to Canada may be remitted under the Tariff Item Number 9982.00.00 of the Schedule to the Customs Tariff.
- 3.12.2 Remission of customs duties payable may be granted under the Tariff Item Number 9982.00.00 when the total contract value of the defence supplies is C\$250,000 or more. This reflects the import value of the goods plus the duty that would be applicable in the absence of the Customs Tariff.
- 3.12.3 The Department of National Defence (DND) will be responsible for prearranging remission on importation or for paying customs duties on importation and applying to Canada Border Services Agency for a refund. DND is also responsible for applying to Public Works and Government Services Canada in good time for the certification required by the Customs Tariff.

### **3.13 Customs Duties – Contractor Importer**

- 3.13.1 As the goods to be supplied under the Contract are defence supplies customs duties on importation to Canada may be remitted under the Tariff Item Number 9982.00.00 of the Schedule to the Customs Tariff.
- 3.13.2 Remission of customs duties payable may be granted under the Tariff Item Number 9982.00.00 when the total contract value of the defence supplies is C\$250,000 or more. This reflects the import value of the goods plus the duty that would be applicable in the absence of the Customs Tariff.
- 3.13.3 The Contractor will be responsible for pre-arranging remission on importation or for paying customs duties on importation and applying to Canada Border Services Agency for a refund. The Contractor is also responsible for applying to Public Works and Governments Services Canada in good time for the certification required by the Customs Tariff.
- 3.13.4 If required by Canada, the Contractor must complete the Certificate of Defence Supplies found in Annex G to this Contract.

### **3.14 Priority Rating (US supplier only)**

- 3.14.1 Canada is a participant in the United States Defense Priorities and Allocations System and this defence contract is eligible for a priority rating. The Contractor must request through the CA the appropriate priority rating within sixty (60) days of the date of the Contract.

### **3.15 Priority Rating – Canadian-based Contractor**

- 3.15.1 The Contract concerns a Canadian defence requirement and therefore is eligible to be assigned a "U.S. Priority Rating" for any materials/services imported from the United States which may be required in the performance of the Work. Accordingly, the Contractor must:
  - (a) Make an application to the Defence Priorities and Allocations Officer, Public Works and Government Services Canada (PWGSC), either by e-mail at: ACQB Defence Priorities - DGA Priorités dedéfense (DGAPrioritiesdedefense.ACQBDefencePriorities@pwgsc-tpsgc.gc.ca); or by facsimile: 819-956-1459;

- (b) Include this clause in subcontracts with Canadian-based contractors, and quote the PWGSC Contract Number indicated in the Contract; and
- (c) Failure to comply with the above may impact on the Contractor's delivery commitments. Therefore, the Contractor is responsible for any breach of the Contract that arises from such a failure.

### **3.16 T1201 – Direct Request by Customer Department**

- 3.16.1 Pursuant to paragraph 221 (1)(d) of the Income Tax Act, R.S. 1985, c.1 (5th Supp.), payments made by departments and agencies to contractors under applicable services contracts (including contracts involving a mix of goods and services) must be reported on a T1204 Government Service Contract Payments slip.
- 3.16.2 To enable departments and agencies to comply with this requirement, the Contractor must provide Canada, upon request, its business number or Social Insurance Number, as applicable. (These requests may take the form of a general call-letter to contractors, in writing or by telephone).

### **3.17 Lien - Section 427 of the Bank Act**

If any lien under section 427 of the Bank Act, S.C. 1991, c. 46, exists in respect to any materials, parts, work-in-process, or finished work for which the Contractor intends to claim payment, the Contractor agrees to inform the Contracting Authority without delay and agrees, unless instructed otherwise by the Contracting Authority, either:

- (a) To cause the bank to remove such lien and to provide the Contracting Authority with written confirmation from the bank; or,
- (b) To provide to the Contracting Authority an undertaking from the bank that the bank will not make any claim under section 427 of the Bank Act on materials, parts, work-in-process, or finished work in respect of which payment is made to the Contractor under the Contract.
- (c) Failure to inform the Contracting Authority of such lien or failure to implement paragraph 1(a) or (b) above will constitute default under the default section of the 2035 General Conditions (Annex I) and will entitle Canada to terminate the Contract.

## **4 DELIVERY, QUALITY, INSPECTION, AND ACCEPTANCE**

### **4.1 Delivery**

- 4.1.1 The Contractor must deliver all goods and services IAW Annex C – Price and Delivery.
- 4.1.2 In the case of AWRs, the Contractor must deliver the goods/services as per the delivery instructions found in the authorized Task Authorization.

### **4.2 Packaging and Marking**

- 4.2.1 Refer to Statement of Work Annex B.

### **4.3 Preparation for Delivery**

- 4.3.1 Repair and Overhaul (R&O):
  - 4.3.1.1 Preparation for delivery for items subject to Repair and Overhaul activities shall be in accordance with Canadian Forces Publication A-LM-184-001/JS-001 Chapter 9 latest issue.
  - 4.3.1.2 Irrespective of the packaging procedures outlined above, the Contractor shall use the containers utilized by the Forces Unit returning articles to be repaired or overhauled to

the Contractor's plant, if considered adequate by the Contractor and the Quality Assurance Representative to protect the articles in shipment and meet the packaging level above. The Contractor shall inspect, repair and/or repaint reusable metal or wooden containers. If a requirement to repair, replace or provide a reusable container or other packaging material has been identified the Contractor must advise the RA and provide a cost estimate for the work identified, the scope of the estimate may be verified by the QAR. All old, non-pertinent markings shall be obliterated by the use of a suitable marking paint; loose or curled labels shall also be removed prior to the application of the new labels.

4.3.1.3 The Contractor shall identify all repairable material that require special packaging or handling and recommend appropriate methods to the Technical Authority.

4.3.1.4 All Repair and Overhaul material shall be received by the Contractor or by a designated direct shipment suppliers as applicable. All in-bound transport charges shall be paid by Canada. The same material shall be returned after completion and acceptance of the Contractor in accordance with the Basis of Payment. Transportation of all repaired assemblies unless otherwise specified in a Task Authorization will be the responsibility of the Contractor.

#### 4.4 Shipping Instructions

##### 4.4.1 Shipping Instructions (DND) - Foreign-based Contractors

4.4.1.1 Delivery will be *DDP (Consignee)* as per Incoterms 2000.

- a) Special Instruction for DDP (Consignee) as per Incoterms 2000:  
i - At DDP A4; delete: "(...) not unloaded (...)" and insert "(...) unloaded (...)".

OR

##### 4.4.2 Shipping Instructions (DND) - Canadian-based Contractor

4.4.2.1 Delivery will be *DDP (Consignee)* as per Incoterms 2000

- a) Special Instruction for DDP (Consignee) as per Incoterms 2000:  
i) *AT DDP A4; DELETE: "(...) NOT UNLOADED (...)" AND INSERT "(...) UNLOADED (...)"*.

#### 4.5 Consignee

4.5.1 For the purpose of the Contract the Consignees are as follows, unless otherwise directed by DND:

- a) Ship to:  
Commanding Officer  
25 Canadian Forces Supply Depot (CFSD)  
Building 7 North Door  
6363 Notre dame East  
Montreal, Québec  
Canada  
H1N 2E9
- b) Ship to:  
Commanding Officer  
7 Canadian Forces Supply Depot (CFSD)  
Landcaster Park  
195 Ave. & 82 St. Bldg 236, East Entrance



P.O. Box 10500, Stn Forces  
Edmonton, Alberta  
Canada  
T5J 4J5

- c) If the Contractor is missing any information, it shall request it through the National Defence Quality Assurance Representative (NDQAR).

#### **4.6 Quality Assurance Authority (DND) - Canadian-based Contractor**

- 4.6.1 All work is subject to Government Quality Assurance (GQA) performed at the Contractor's or subcontractor's facility, and at the installation site, by the Director of Quality Assurance, or its designated Quality Assurance Representative (QAR).

4.6.2  
Director of Quality Assurance (DQA)  
National Defence Headquarters  
MGen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: [ContractAdmin.DQA@forces.gc.ca](mailto:ContractAdmin.DQA@forces.gc.ca)

- 4.6.3 Within forty-eight (48) hours of contract award, the Contractor must contact the QAR. The name, location and phone number of the QAR can be obtained from the nearest National Defence Quality Assurance Region (NDQAR) listed below:

4.6.4  
Atlantic - Halifax 902-427-7224 or 902-427-7150  
Quebec - Montreal 514-732-4410 or 514-732-4477  
Quebec - Quebec City 418-694-5998, ext. 5996  
National Capital Region - Ottawa 819-994-8973  
Ontario - Toronto 416-635-4404, ext. 6081 or 6075  
Ontario - London 519-964-5757  
Manitoba/Saskatchewan - Winnipeg 204-833-2500, ext. 6574  
Alberta - Calgary 403-410-2320, ext. 3830  
Alberta - Edmonton 780-973-4011, ext. 2276  
Vancouver 604-225-2520, ext. 2466 or 2461  
Victoria 250-363-5662

- 4.6.5 The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the material or services provided conform to the requirements of the Contract.
- 4.6.6 The Contractor must provide, at no additional cost, all applicable test data, all technical data, test pieces and samples as may reasonably be required by the QAR to verify conformity to the requirements of the Contract. The Contractor must forward at its expense such technical data, test data, test pieces and samples to such location as the QAR may direct.
- 4.6.7 Quality control, inspection and test records that substantiate conformity to the specified requirements, including records of corrective actions, must be retained by the Contractor for three (3) years from the date of completion or termination of the Contract and must be made available to the QAR upon request.

#### **4.7 Quality Assurance Authority (DND) - Foreign-based and United States Contractor**

- 4.7.1 All work is subject to Government Quality Assurance performed at the Contractor's or subcontractor's facility, and at the installation site, by the Director of Quality Assurance, or its designated Quality Assurance Representative (QAR).

Director of Quality Assurance  
National Defence Headquarters  
Major-General George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: [ContractAdmin.DQA@forces.gc.ca](mailto:ContractAdmin.DQA@forces.gc.ca)

- 4.7.2 If the Contractor has not been contacted by the QAR performing GQA in the Contractor's facility or area within forty-five (45) working days of award of the Contract, the Contractor must notify the Contracting Authority.
- 4.7.3 Where no official arrangements for mutual GQA have been concluded, the Department of National Defence will arrange for the GQA services to be conducted by a National Quality Assurance Authority acceptable to the Director of Quality Assurance. If the GQA services must be provided on a cost-recovery basis, the costs for the services must be accrued against the Contract and be discharged through separate invoicing.
- 4.7.4 The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the materiel or services provided conform to the requirements of the Contract.
- 4.7.5 The Contractor must provide, at no additional cost, all applicable test data, all technical data, test pieces and samples as may reasonably be required by the QAR to verify conformity to the requirements of the Contract. The Contractor must forward at its expense such technical data, test data, test pieces and samples to such location as the QAR may direct.
- 4.7.6 Quality control, inspection and test records that substantiate conformity to the specified requirements, including records of corrective actions, must be retained by the Contractor for three (3) years from the date of completion or termination of the Contract and must be made available to the QAR upon request.

#### **4.8 ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)**

- 4.8.1 In the performance of the Work described in the Contract, the Contractor must comply with the requirements of:
- 4.8.2 ISO 9001:2008 - Quality management systems - Requirements, published by the International Organization for Standardization (ISO), current edition at date of submission of Contractor's bid.
- 4.8.3 It is not intended that the Contractor's be registered to ISO 9001; however, the Contractor's quality management system must address all requirements appropriate to the scope of the Work. Only exclusions in accordance with clause 1.2 of ISO 9001 are acceptable.
- 4.8.4 Assistance for Government Quality Assurance (GQA)
  - 4.8.4.1 The Contractor must provide the Quality Assurance Representative (QAR) with the accommodation and facilities required for the proper accomplishment of GQA and must provide any assistance required by the QAR for evaluation, verification, validation, documentation or release of product.
  - 4.8.4.2 The QAR must have the right of access to any area of the Contractor's or subcontractor's facilities where any part of the Work is being performed. The QAR must be afforded unrestricted opportunity to evaluate and verify Contractor conformity with quality system procedures and to validate product conformity with the requirements of the Contract. The Contractor must make available for reasonable use by the QAR the equipment necessary for all validation purposes. Contractor personnel must be made available for operation of such equipment as required.

- 4.8.4.3 When the QAR determines that GQA is required at a subcontractor's facilities, the Contractor must provide for this in the purchasing document and forward copies to the QAR, together with relevant technical data as the QAR may request.
- 4.8.4.4 The Contractor must notify the QAR of non-conforming product received from a subcontractor when the product has been subject to GQA.
- 4.8.4.5 For the design, development or maintenance of software, the Contractor must interpret the requirements of ISO 9001:2008 "Quality management systems - Requirements", according to the guidelines of the latest issue (at contract date) of ISO/IEC 90003:2004 "Software engineering - Guidelines for the application of ISO 9001:2000 to computer software".

#### **4.9 Inspection and Acceptance**

##### **4.9.1 Inspection:**

- 4.9.1.1 The Technical Authority is the Inspection Authority. All reports, Deliverable End-Items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.
- 4.9.1.2 Final Acceptance will be performed IAW the procedures detailed Article 4.9.2 (below).
- 4.9.1.3 Inspection by the Inspection Authority will not relieve the Contractor from responsibility to meet the requirements of the Contract.
- 4.9.1.4 For the purpose of inspecting Spare Parts/STTEs and Repair and Overhaul, the Inspection Authority may designate the Contractor as the party who shall conduct inspections and issue certificates of conformance on the Inspection Authority's behalf, provided always at the Inspection Authority's discretion.

##### **4.9.2 Acceptance:**

- 4.9.2.1 The acceptance by Canada for each of the following areas (Spare Parts/STTEs, Repair and Overhaul, Tasks and Data Deliverables) will allow Canada to initiate payment to the Contractor for each of the accepted items.
- 4.9.2.2 Acceptance for Spare Parts/STTEs:
  - a) The formal acceptance of spare parts will occur at the consignee's address with signoff of the DND form CF 1280 .
- 4.9.2.3 Acceptance for Repair and Overhaul:
  - a) The formal acceptance of repaired material will occur at the consignee's address with signoff of DND form CF 2227.
- 4.9.2.4 Acceptance for Task Authorizations:
  - a) In conjunction with the Contracting Authority, the Technical Authority will issue a Task Closure letter to the Contractor. The Task Closure letter shall contain the following information and will constitute acceptance of the task:
    - i. The Contract Number (\_\_\_\_);
    - ii. The serial Task Number of the Task Directive;
    - iii. The title of the Task Directive; and
    - iv. Signature from the Technical Authority.

- 4.9.2.5 Acceptance for Data Deliverables:

- a) The acceptance for Data Deliverables will vary depending on approval requirements specified in the Contract Data Requirement List (CDRL) Appendix BI, attachment BI-1. The Technical Authority will acknowledge receipt of every Data Deliverable that is compliant with the required format. The following shall apply:
  - i. In the event where a Data Deliverable only requires acknowledgement, acceptance will be the acknowledgment message; or
  - ii. In the event where a Data Deliverable requires approval, acceptance will occur when the Technical Authority sends an Approval Letter containing the following information:
    - (a) The Contract Number (\_\_\_\_);
    - (b) The CDRL/DID Number;
    - (c) Title or description of the document/report;
    - (d) Scheduled delivery date or period covered by the CDRL/DID;
    - (e) Date and time of the receipt of delivery from the Contractor;
    - (f) Signature of the Technical Authority or delegated representative; and
    - (g) Copy of Approval letter is to be sent to the Contract Authority or delegated representative.

4.9.2.6 Acceptance of Repaired Vehicles, LHS Trailers and other Major Equipment from the Major Repair Program. The acceptance of Repaired Vehicles, LHS Trailers and other Major Equipment is achieved upon DND QAR sign-off of the Certificate of Inspection and Release, CF 1280.

#### **4.10 Release Documents (DND)**

##### 4.10.1 Release Documents (DND) – Foreign-based Contractor

4.10.1.1 Material must be released for shipment using a Certificate of Conformity in accordance with NATO STANAG 4107 which must be prepared by the Contractor.

##### 4.10.2 Release Documents (DND) – United States-based Contractor

4.10.2.1 Material must be released for shipment using a DD Form 250, Material Inspection and Receiving Report, or a release document containing the same information and acceptable to the Quality Assurance Representative. The Contractor must prepare the release document(s).

##### 4.10.3 Release Documents (DND) – Canadian-based Contractor

4.10.3.1 Unless otherwise directed by the Department of National Defence (DND) Quality Assurance Authority, the signature of the DND Quality Assurance Representative on the release document is not required.

4.10.3.2 Material must be released for shipment using either DND form CF 1280, Certificate of Release, Inspection and Acceptance, or a release document containing the same information. The Contractor must prepare the release document(s).

#### **4.11 Release Documents – Distribution**

4.11.1 The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- a) One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b) Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c) One (1) copy to the Contracting Authority;

- d) One (1) copy to the Requisition Authority:

National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Attention: \_\_\_\_\_

- e) One (1) copy to the Quality Assurance Representative; and

- f) For all non-Canadian contractors, one (1) copy to:

DQA/Contract Administration  
National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
E-mail: ContractAdmin.DQA@forces.gc.ca..

#### **4.12 Canadian Customs Documentation**

##### General

- 4.12.1 The Contractor must provide two (2) copies of the Canada Customs Invoice (CCI) or two (2) copies of the commercial invoice marked "For Customs Purposes Only".
- 4.12.2 For shipments from the United States and Mexico that are of American, Mexican or Canadian origin, as defined by the North American Free Trade Agreement (NAFTA), and for shipments from Israel that are Israeli in origin, as defined by the Canada-Israel Free Trade Agreement (CIFTA), the Contractor must provide proof of origin of the goods. This proof must be in the form of a NAFTA or CIFTA Certificate of Origin for goods valued at C\$1,600 or more, or a simple statement on the invoice for goods valued at C\$1,600 or less. In either case, the document must include an original signature and must reference the contract number. For contracts valued at C\$250,000 or more, the proof of origin will not be required.
- 4.12.3 The Contractor must not employ commercial customs brokers to custom clear the goods provided under the Contract, unless authorized by the Canadian Material Support Group / Customs, at National Defence Headquarters, telephone: 1-855-210-5149, facsimile: 1-800-306-1811 or 613-971-7333.

##### Completion of Documents

- 4.12.4 The CCI or commercial invoice must include the following information:
- (a) complete description of the goods being shipped, including the applicable United States "Schedule B" codes or United States Harmonized Tariff Schedule codes;
  - (b) value and terms of sale for each item (e.g. sale, loan, warranty, Incoterms 2000), including value of repairs, warranty repairs and/or replacement costs;
  - (c) the Contract number and financial codes (use Field 3 on the CCI form);
  - (d) country of origin of goods; and
  - (e) when a NAFTA Certificate of Origin has been prepared, the "Description" field of the CCI or commercial invoice must include a statement confirming that it has been completed and is attached to that invoice.

##### Distribution of Documents

- 4.12.5 The Contractor must attach the following to shipping container No. 1 of all shipments using a waterproof envelope marked "Canada Customs Documentation":
- (a) one (1) copy of the CCI or one (1) copy of the commercial invoice as applicable, and;
  - (b) one (1) copy of the NAFTA Certificate of Origin (if applicable).

- 4.12.6 The second copy of each of the above-mentioned forms must be attached to the shipping documents.
- 4.12.7 A copy of the CIFTA Certificate of Origin must be faxed to 1-800-306-1811 or emailed to DCBSCustoms@forces.gc.ca.

#### **4.13 Palletization**

- 4.13.1 For all shipments exceeding 0.566 m<sup>3</sup> or 15.88 kg (20 ft<sup>3</sup> or 35 lbs), except for those shipped by courier, the following applies:
  - 4.13.1.1 The Contractor must strap, and if necessary wrap, shipments on standard 1.22 m x 1.02 m (48 in. x 40 in.) wood pallets. The four-way forklift entry pallet must be supplied at no charge to Department of National Defence. Total height, including pallet, must not exceed 1.19 m (47 in.). The pallet load must not extend further than 2.54 cm (1 in.) from any edge of the pallet.
  - 4.13.1.2 The Contractor must group items by stock number (on the same pallet) within consolidated shipments. Pallet loads composed of more than one stock number must be marked as "MIXED ITEMS".
  - 4.13.1.3 Individual items exceeding 1.22 m (48 in.) in length or 453.6 kg (1000 lbs) must be secured to larger pallets or must have 10.16 cm x 10.16 cm (4 in. x 4 in.) skids securely fastened to the bottom of the item. Skids must be separated by a minimum of 71.12 cm (28 in.).

#### **4.14 Condition of Material**

- 4.14.1 The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent unless otherwise indicated in the Contract. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date and must be approved by the DND Technical Authority.

#### **4.15 Wood Packaging Materials**

- 4.15.1 All wood packaging materials used in international shipping must conform to the "Guidelines for Regulating Wood Packaging Material in International Trade" - ISPM 15 (International Standards for Phytosanitary Measures - <https://www.ippc.int/index.php?id=13399>).
- 4.15.2 Pertinent additional information on Canada's import and export programs is provided in the following Canadian Food Inspection Agency policy directives:
  - D-98-08 - Entry Requirements for Wood Packaging Materials Produced in All Areas Other Than the Continental United States (<http://www.inspection.gc.ca/english/plaveg/protect/dir/d-98-08e.shtml>); and
  - D-01-05 - The Canadian Wood Packaging Certification Program (CWPCP) (<http://www.inspection.gc.ca/english/plaveg/protect/dir/d-01-05e.shtml>).

### **5 GOVERNMENT PROPERTY**

#### **5.1 Care of Government Property**

- 5.1.1 Title to Government Property must remain vested in Canada at all times and the Contractor must not lien, charge or encumber, nor cause to be subject to lien, charged or encumbered, any Government Property in its possession or control.
- 5.1.2 The Contractor must keep all Government Property in its possession or control insured under the provisions of Article 7.3 Insurance with provision for loss payable to Canada.

- 5.1.3 The Contractor must, whenever identify, tag all Government Property as being the property of Canada.
- 5.1.4 Canada will provide the Contractor with the Government Property listed in Appendix BJ, at the times and places set out in the Contract.
- 5.1.5 The Contractor must return to Canada, on demand, any Government Property listed in Appendix BJ, except for that Government property that has been demilitarized, installed or incorporated into the Work, and consumable items. Return of Government Property as listed in Appendix BJ, at the request of Canada, must be deemed to be an event described in 2035 Section 10, Excusable Delay.
- 5.1.6 The Contractor must maintain adequate inventory of all Government Property. At the request of the CA, the Contractor must provide a complete inventory list of all Government Property relating to the Contract; and
- 5.1.7 The Contractor must reimburse Canada any cost or expenses due to the damage or loss caused by the negligence of the Contractor, to Government property or must, upon reasonable notice, promptly repair such damage or substitute such loss to Canada's satisfaction.

## **5.2 DND Loan Property**

- 5.2.1 If required, a loan agreement will be put in place 30 Days after Contract award to cover equipment owned by Canada and supplied to the Contractor.
- 5.2.2 If, during the course of the Contract, the Contractor identifies equipment or information owned by Canada, the use of which might be beneficial to the Work of the Contract, the Contractor may submit a request for such equipment or information to be added to the Loan Agreement. Canada will determine and advise the Contractor whether, and the terms upon which, such equipment or information can be provided. If such a loan is agreed, Canada will endeavour to deliver to the Contractor such equipment or information at the times and places and upon the other terms agreed.
- 5.2.3 A copy of the Loan Agreement is attached to this Contract at Appendix BK.

## **5.3 Government Furnished Equipment (GFE)**

- 5.3.1 GFE means equipment, other than Government Supplied Material (GSM), which Canada provides to the Contractor for use to carry out the Work. If during the course of the Contract, the Contractor identifies equipment required for the purposes of the Contract, the Contractor may submit a request to Canada. Canada will determine and advise the Contractor whether, it is prepared to provide such equipment. Once the terms of the loan agreement are agreed, Canada will endeavour to deliver to the Contractor such equipment at the times and places and upon the other terms agreed. GFE is "government issue" within the meaning of Section 16 of the Defence Production Act, R.S.C. 1970, c. D-2.
- 5.3.2 Upon delivery of any item of GFE to its premises or to any other location specified by the Contractor, the Contractor must forthwith inspect it IAW the Quality Assurance program for defects or deficiencies and, in the event such are discovered, must inform the CA. The CA and the Contractor must jointly determine corrective measures to be taken by either party and the consequences, if any, to the Contract Delivery Date and the Contract Price.

- 5.3.3 Notwithstanding any other provision of the Contract, any failure of Canada to provide GFE by the times or otherwise IAW the requirements stated herein must be deemed to be an event described in 2035 Section 10, Excusable Delay.

#### **5.4 Government Furnished Information (GFI)**

- 5.4.1 GFI means information and any Data that Canada provides to the Contractor during the course of the Contract. All Canada's right, title and interest to GFI must remain vested always in Canada and the Contractor must maintain it free and clear of all claims, liens, charges and encumbrances. GFI is "government issue" within the meaning of Section 16 of the Defence Production Act, R.S.C. 1970, c. D-2.
- 5.4.2 If, during the course of the Contract, additional requirements for information available to Canada are identified by the Contractor, the Contractor may submit requests for such information to the CA and the CA will determine and advise the Contractor whether, and the terms upon which, such information can be provided. Canada will endeavour to provide to the Contractor such information at the times and places and upon the other terms agreed.
- 5.4.3 Notwithstanding any other provision of the Contract, any failure of Canada to provide GFI by the times or otherwise IAW the requirements stated herein will be deemed to be an event described in 2035 Section 10, Excusable Delay.

#### **5.5 Government Supplied Material (GSM)**

- 5.5.1 GSM means any material that Canada has undertaken in this Contract to deliver to the Contractor for incorporation in Deliverable End Items and that is listed in Appendix BJ. All of Canada's right, title and interest to all GSM remains always vested in Canada, free and clear of all claims, liens, charges and encumbrances.
- 5.5.2 Any and all loss or damage to GSM while it is in the possession of, or otherwise under the control of, the Contractor will be the responsibility of the Contractor. GSM is "government issue" within the meaning of Section 16 of the Defence Production Act, R.S.C. 1970, c. D-2 and the Contractor will maintain it free of all claims, liens, charges and encumbrances.
- 5.5.3 Upon delivery of any item of GSM to its premises or to any other location specified by the Contractor, the Contractor will forthwith inspect it IAW the Quality Assurance program for defects or deficiencies and, in the event such are discovered, must inform the CA. The CA and the Contractor will jointly determine corrective measures to be taken by either party and the consequences, if any, to the Contract Delivery Date and the Contract Price. The Contractor prior to incorporation in a Vehicle or other Deliverable End Item must properly store GSM. All GSM supplied by Canada for inclusion in a Vehicle must be installed by, or have satisfactory stowage onboard provided by, the Contractor.
- 5.5.4 Notwithstanding any other provisions of the Contract, Canada's obligation to provide GSM is restricted to this Article and to the items set forth in Appendix BJ.
- 5.5.5 Any failure of Canada to provide GSM listed in Appendix BJ by the times specified in this Contract or otherwise IAW the requirements stated herein, must be deemed to be an event described in 2035 Section 10, Excusable Delay.
- 5.5.6 If the delivery date for any Deliverable End Item is extended for any reason, the latest date by which Canada must deliver items in Appendix BJ, will be adjusted appropriately to reflect the date on which the Contractor requires the GSM.



## **5.6 Canadian Forces Site Regulations**

- 5.6.1 The Contractor must comply with all standing orders or other regulations, instructions and directives in force on the site where the Work is performed.

## **6 ENVIRONMENTAL**

### **6.1 Dangerous Goods/Hazardous Products**

- 6.1.1 The Contractor must mark dangerous goods/hazardous products material which is classed as dangerous / hazardous as follows:
- 6.1.1.1 shipping container - in accordance with the Transportation of Dangerous Goods Act, 1992, c. 34; and
- 6.1.1.2 immediate product container - in accordance with the Hazardous Products Act, R.S., 1985, c. H-3.
- 6.1.2 The Contractor must provide bilingual Material Safety Data Sheets, indicating the NATO Stock Number as follows:
- a) two (2) hard copies:
- i) one (1) copy to be enclosed with the shipment, and
  - ii) one (1) copy to be mailed to:  
National Defence Headquarters  
MGen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, Ontario K1A 0K2  
Attention: DSCO 5-4-2
- b) one (1) copy sent by email to the following address: MSDS-FS@FORCES.GC.CA in word processing format (i.e. MS Word or WordPerfect).
- 6.1.3 The Contractor is liable for any damages caused by improper packaging, labeling or carriage of goods/products.
- 6.1.4 The Contractor must adhere to all levels of regulations regarding dangerous goods/hazardous products as set forth by federal, provincial and municipal laws and by-laws.
- 6.1.5 The Contractor must contact the consignee (i.e. Supply Depot Traffic Section) at least 48 hours before shipping dangerous goods/hazardous products in order to schedule a receiving time.
- 6.1.6 Canada Labour Code, Part II dictates that the least hazardous products should be used at the workplace. Therefore, the Contractor must use the least hazardous product that meets the requisite performance requirements
- 6.1.7 The Contractor must clearly mark all merchandise labels with the percentage of volume that is a hazardous item. Failure to do so will result in the Contractor being held responsible for damages caused in the movement of goods/products by government vehicles or government personnel.

### **6.2 Environmental – General**

- 6.2.1 Environmental Health and Safety (EHS) considerations must be incorporated and documented into the decision making process for the Work performed under this

Contract. EHS documentation must be maintained within the Contractor's project file throughout the life of the vehicle/equipment.

6.2.2 The Contractor must comply with DND policies, orders, directives and best practices when accessing DND owned or controlled lands, buildings or equipment.

6.2.3 The following definition will apply:

6.2.3.1 "Controlled Products" are products, substances, materials, or wastes that are banned, being phased out, regulated or restricted under any applicable law, including the following:

- a) Regulated and proposed to be regulated under the Canadian Environmental Protection Act (CEPA);
- b) listed in Schedule 1, Toxic Substances under CEPA
- c) targeted Chemicals subject to the National Pollutant Release Inventory
- d) targeted by the Chemical Management Plan
- e) targeted by the Chemical Management Plan - List of Challenge Substances;
- f) targeted under the Accelerated Reduction/Elimination of Toxic Substances (ARET) Program.

6.2.3.2 "Environmental Health and Safety (EHS)" is the consideration of environmental impacts and the health and safety implications of those impacts resulting from the designs and upgrades to the system. This does not include the application of aspects from the OHSAS 18001 standard in the development and deployment of those designs and upgrades.

### **6.3 Environmental Management System (EMS) Requirement (ISO 14001)**

6.3.1 The Contractor must have a management system in place to control environmental, health and safety impacts resulting from their activities, products or services. ISO 14001 is a benchmark for an effective environmental management system applicable to all types and sizes of organizations. Certification to this standard is preferred but not necessary. The Contractor must, however, have a formalized set of procedures and control measures in place to achieve conformance with the requirements of this Work, while ensuring environmental, health and safety protection and pollution prevention. The Technical Authority will have the right to make examinations and such audits of the Work and control processes/procedures and infrastructure with respect to the environmental, health and safety management system as they may think fit.

6.3.2 The Contractor must keep accurate and complete EHS records, which must, upon request, be made available to the Technical or Inspection Authority, who may only view such documents. During the performance of the Contract and for any period of time thereafter provided in the Contract request for copies of any document must be made formally to the Contractor.

6.3.3 The EMS requirement is applicable to the Contractor, and any and all subcontractors that may provide support to the Contract requirements. The Contractor must make reasonable effort to monitor that all subcontractors are in compliance with applicable environmental laws and regulations.

### **6.4 Controlled Products**

6.4.1 The use of any new controlled products, as part of the Work under this Contract, must be submitted for review and approval through the Technical Authority before use. The use of controlled products must be reviewed in consultation with Technical Authority, to

determine whether replacement by other less hazardous controlled products (IAW the Canada Labour Code, Part II) that meet performance requirements can be utilized, and if so, to replace these controlled products with products of less hazard. It is DND policy to eliminate the use of Controlled Products and to comply with all legislated and regulated requirements. The promulgation of new or amended legislations, regulations, policies or directives throughout this Contract period may necessitate changes to support processes and activities. These changes must be incorporated as required to ensure compliance throughout the contract period, as specified at Article 18 of the General Conditions 2035.

- 6.4.2 Halocarbon Based Fire Extinguishing Systems. All contracted Work on halon fire extinguishing systems must be performed in compliance with the Federal Halocarbon Regulations, 2003 (FHR, 2003) and DND Policy (ED 4003-5, Halocarbon Management). For situations where fire extinguishing systems and equipment are maintained through contracts, the Contractor must be certified by the Underwriters' Laboratory of Canada (ULC) to the appropriate service category. The Work must be performed to ULC/ORD standard C1058.18 1993, entitled The Servicing of Halon Fire Extinguishers.
- 6.4.3 Halocarbon based Air-Conditioning/Refrigeration Systems. Similarly, all refrigerant/air-conditioning systems containing FHR, 2003 regulated substances must be maintained in compliance with regulation (FHR, 2003).
- 6.4.4 WHMIS Regulation. The Contractor must label and ship goods falling within the Hazardous Products Act, R.S.C. 1985, C. H-3 and regulation(s) there under IAW the said Act and regulation(s) accompanied by the Material Safety Data Sheet(s) completed in English or French, as specified at Article 6.1 – Dangerous Goods/Hazardous Products.
- 6.4.5 Hazardous Waste Disposal. The Contractor will have full responsibility for disposal of any hazardous waste removed or uncovered in the performance of the Work except when the Work is performed at a DND facility, in which case, title to such waste will pass to the Contractor as soon as the Contractor takes possession of the waste, and the Contractor must dispose of such waste IAW the requirements of the Contract, if any, and IAW Article 18 of the General Conditions 2035.
- 6.4.6 Controlled Products Listing. As part of any subcontract/sublet requirement raised by the Contractor in support of the Work, the subcontract/sublet will include a clause for the use of the least hazardous Controlled Product necessary, while maintaining operation effectiveness. Controlled Products that are banned must not be used. When a Controlled Product must be used, the Contractor must provide justification for its use. The Contractor is required to supply the Technical Authority with the respective Material Safety Data Sheets for all hazardous material products listed.
- 6.4.7 Controlled Products Instructions. The Contractor must ensure that appropriate instruction regarding the handling, use; transportation and disposal of Controlled Products are contained in documentation.

## **6.5 EHS Compliance**

- 6.5.1 Publications: New or amended publications must incorporate appropriate EHS warnings and instructions in direct relation of the EHS risks presented in the contents.

## **6.6 Decommissioning and Disposal**

- 6.6.1 As and when required IAW the additional Work provision of the Contract, the Contractor must prepare and submit disposal plans and decommissioning/disposal instructions for

approval by the Technical Authority. In addition to the operational, technical and administrative aspects required, these plans and instructions must include EHS considerations to ensure the protection of individuals and the environment and to mitigate the EHS impacts resulting from the decommissioning/ disposal activities. A Decommissioning/Disposal EHS Assessment must be conducted prior to any decommissioning/disposal action being taken to ensure that the proper mitigation measures have been identified and that the instructions/plans are compliant with EHS legislations, regulations, and policies/directives that are in force at that time.

- 6.6.2 The Contractor must dispose of Scrap materiel that is not a Controlled Items IAW paragraph 9 of Part 7 of A-LM-184-001/JS-001.
- 6.6.3 The Contractor must demilitarize all scrap controlled parts and assemblies. The Contractor must dispose of all residues resulting from demilitarization. The Contractor must complete the Certificate of Demilitarization at Annex B, SOW for all parts and assemblies that have been demilitarized. The Contractor will forward the Certificate of Demilitarization to the Contracting Authority and TA, within 30 days after demilitarization has been carried out. Canada reserves the right to witness the demilitarization activity. The Contractor must advise CA and TA 10 days in advance of demilitarization activities.
- 6.6.4 The Contractor must dispose of any hazardous waste removed or uncovered in the performance of the Work IAW the requirements of the Contract and any applicable law.

## **6.7 Radioactive Material**

- 6.7.1 The Contractor must report all radioactive materials, which are in scheduled quantities as provided for in the Atomic Energy Control Act and Regulations.

## **7 GENERAL TERMS AND CONDITIONS**

### **7.1 Copyright Provisions**

- 7.1.1 The Contractor must provide copyrighted documents as follows:
  - 7.1.1.1 Contractor Publications. Canada reserves the right to reproduce, in whole or in part, all publications procured under this Contract. Supply of publications must include a royalty-free, irrevocable license with rights to reproduce, modify and translate into English and French with the limitation that the data must not be released outside the Canadian Government or designated agents operating on behalf of the Canadian Government if the Contractor so states.
  - 7.1.1.2 Vendor Publications. If the publication package contains publications obtained by the Contractor from a vendor or sub-vendor, the Contractor must accept responsibility for the content validity of such publications and be responsible for obtaining any proprietary and copyright release or license from the vendor or sub-vendor.
  - 7.1.1.3 Figures and Illustrations. The Contractor must provide reproducible copies of all figures and illustrations in original artwork and electronic form (tif), capable of printing to produce clear and legible copies. Supply of illustrations must include a royalty-free, irrevocable license with rights to reproduce, modify and translate into English and French with the limitation that the illustrations must not be released outside the Canadian Government or designated agents operating on behalf of the Canadian Government if the Contractor so states.

## **7.2 Applicable Laws**

- 7.2.1 The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario, Canada.

## **7.3 Insurance**

### **7.3.1 Insurance Requirements**

- 7.3.1.1 The Contractor must comply with the following insurance requirements specified below. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

- 7.3.1.2 The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

- 7.3.1.3 The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

### **7.3.2 Commercial General Liability Insurance**

- 7.3.2.1 The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

- 7.3.2.2 The Commercial General Liability policy must include the following:

- a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
- b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
- c) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
- d) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
- e) Cross Liability/Separation of Insured's: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
- f) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.

- g) Employees and, if applicable, Volunteers must be included as Additional Insured.
- h) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program).
- i) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
- j) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
- k) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- l) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- m) Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.
- n) Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.
- o) Litigation Rights: Pursuant to subsection 5(d) of the Department of Justice Act, S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

For the province of Quebec, send to:

Director Business Law Directorate,  
Quebec Regional Office (Ottawa),  
Department of Justice,  
284 Wellington Street, Room SAT-6042,  
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

Senior General Counsel,  
Civil Litigation Section,  
Department of Justice  
234 Wellington Street, East Tower  
Ottawa, Ontario K1A 0H8

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

#### 7.3.3 Garage Automobile Liability Insurance

7.3.3.1 The Contractor must obtain Garage Automobile Liability insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

7.3.3.2 The Garage Automobile Liability policy must include the following:

- i. Third Party Liability - \$2,000,000 Minimum Limit per Accident or Occurrence;
- ii. Legal Liability for damage to a Customer's Automobile while in the care, custody or control of the Insured including Collision or Upset and Comprehensive Damage (including open lot theft);
- iii. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada as additional insured should read as follows: Canada, represented by Public Works and Government Services Canada; and
- iv. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

#### 7.3.4 Errors and Omissions Liability Insurance

7.3.4.1 The Contractor must obtain Errors and Omissions Liability (also known as Professional Liability) insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature but for not less than \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.

7.3.4.2 If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.

7.3.4.3 The following endorsement must be included: Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

#### **7.4 Deleted**

#### **7.5 Certifications**

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

#### **7.6 NATO Codification - Data Requirements**

7.6.1 The Contractor must provide DND, which is the National Codification Bureau (NCB) for Canada, sufficient technical data to permit the Director, Supply Chain Operations (DSCO) to classify, codify and describe new items being introduced into the Canadian Government Cataloguing System.

7.6.2 Technical data for each item may include the manufacturer's engineering drawing (minimum level 2), standard, specification and/or data specification sheet (brochure).

Regardless of which of these formats is provided, the data must clearly provide the following, as applicable:

- a) the name and address of the true manufacturer, or Design Control Authority;
- b) the manufacturer's unique part number;
- c) the physical characteristics (material, dimensions, tolerances);
- d) performance data (i.e. functional and operating requirements such as speed, load);
- e) electrical and/or electronic characteristics;
- f) mounting requirements;
- g) special features which contributed to the uniqueness of the item(s);
- h) the end item application; and
- i) if applicable, the manufacturer's unique bar code number.

7.6.3 Technical descriptive data are not required for items that are identified in a Canadian or United States government specification or in a Military Standard which completely describes the item.

7.6.4 The Contractor is responsible for advising the Technical Authority and the NCB (DSCO 5) of any proprietary data or restrictions imposed on the release of its technical data to government entities in Canada or abroad.

7.6.5 In the event of disputes regarding the acceptability of technical data submitted by the Contractor, the ruling of the NCB (DSCO) must prevail.

7.6.6 The Contractor is ultimately responsible, under the conditions of the Contract, for the provision of the technical data for all of the items identified in the Contract. The Contractor must include the terms of this clause in any subcontracts, to ensure the availability of the technical data to DND and the NCB (DSCO).

7.6.7 For end items procured by the Contractor from a subcontractor or supplier, the Contractor must provide the name of the actual manufacturer and their unique identifying part number along with all necessary technical documentation, and their bar code number if available.

7.6.8 The Contractor must submit all data to the Technical Authority at least sixty (60) days before delivery of the equipment. Items must not be released for shipment unless identified with a NATO Stock Number provided for in the Contract, or unless specifically authorized by the Contracting Authority.

7.6.9 The Contractor must contact the Technical Authority for any further clarification of the codification technical data requirements.

## **7.7 Controlled Goods**

7.7.1 The contract involves controlled goods as defined by the Controlled Goods Regulations of the *Defence Production Act*. The Contractor must identify those controlled goods to the Department of National Defence.

## **7.8 Controlled Goods Program**

7.8.1 As the Contract requires production of or access to controlled goods that are subject to the Defence Production Act, R.S. 1985, c. D-1, the Contractor and any subcontractor are advised that, within Canada, only persons who are registered, exempt or excluded under the Controlled Goods Program (CGP) are lawfully entitled to examine, possess or transfer controlled goods. Details on how to register under the CGP are available at: <http://www.cgp.gc.ca>.



- 7.8.2 When the Contractor and any subcontractor proposed to examine, possess or transfer controlled goods are not registered, exempt or excluded under the CGP at time of contract award, the Contractor and any subcontractor must, within seven (7) working days from receipt of written notification of the contract award, ensure that the required application(s) for registration or exemption are submitted to the CGP. No examination, possession or transfer of controlled goods must be performed until the Contractor has provided proof, satisfactory to the Contracting Authority, that the Contractor and any subcontractor are registered, exempt or excluded under the CGP.
- 7.8.3 Failure of the Contractor to provide proof, satisfactory to the Contracting Authority, that the Contractor and any subcontractor are registered, exempt or excluded under the CGP, within thirty (30) days from receipt of written notification of contract award, will be considered a default under the Contract except to the extent that Canada is responsible for the failure due to delay in processing the application.
- 7.8.4 The Contractor and any subcontractor must maintain registration, exemption or exclusion from the CGP for the duration of the Contract and in any event for so long as they will examine, possess or transfer controlled goods.

## **7.9 Foreign Nationals**

### **7.9.1 Foreign Nationals (Canadian Contractor)**

The Contractor must comply with Canadian immigration requirements applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Service Canada regional office to enquire about Citizenship and Immigration Canada's requirements to issue a temporary work permit to a foreign national. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

OR

### **7.9.2 Foreign Nationals (Foreign Contractor)**

The Contractor must comply with Canadian immigration legislation applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Canadian Embassy, Consulate or High Commission in the Contractor's country to obtain instructions, information on Citizenship and Immigration Canada's requirements and any required documents. The Contractor is responsible to ensure that foreign nationals have the required information, documents and authorizations before performing any work under the Contract in Canada. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

## **7.10 Dispute Resolution**

- 7.10.1 Any dispute between the Parties will be decided in the first instance by the Contracting Authority who will, within fifteen (15) days of a request, deliver a written decision explaining the reasons to the Contractor. The decision of the Contracting Authority will be binding for all purposes of the Contract unless the Contractor delivers a Notice disputing it to the Contracting Authority within thirty (30) days after receipt of the written decision.
- 7.10.2 In the event that the Contractor wishes to dispute a decision of the Contracting Authority the Contractor must submit the dispute for determination by the Director, Major Projects – Land, Directorate of PWGSC, who will have sixty (60) days after

receipt of such Notice to deliver a Notice of his decision to the Contractor and such decision will be final and binding on the Parties, subject, however, to the provisions of Sub-article 7.10.3.

- 7.10.3 If the decision of the said Director is still unsatisfactory to the Contractor, it may then take such actions or proceedings as it considers appropriate, including without limiting the foregoing, all suits, remedies, rights and entitlements and, if mutually agreeable to the Parties, arbitration that would otherwise have been immediately available to the Contractor but for this Article.
- 7.10.4 Notwithstanding action pursuant to Sub-article 7.10.3, the Contractor will proceed diligently with the performance of the Work in accordance with the decision of the Contracting Authority pending the disposition of the dispute, subject to equitable adjustment of the Contract Price and other affected provisions of the Contract in the event that the decision is incorrect and affects the cost to the Contractor of the Work or affects other provisions of the Contract. The Contractor will not stop nor suspend the Work, or any part thereof, except that part of the Work suspended by the Minister pursuant to Article 28, Suspension of the Work, or terminated by the Minister pursuant to Article 29, Default by the Contractor, or Article 30, Termination for Convenience, of the 2035 General Conditions (Annex I).

#### **7.11 Priority of Documents**

- 7.11.1 If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.
- a) The Articles of Agreement;
  - b) Annex J – Supplemental General Conditions 4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information, as amended;
  - c) Annex I – General Conditions 2035 (2013-04-25) General Conditions - Higher Complexity – Services;
  - d) Annex A – SRCL;
  - e) Annex B – Statement of Work and its Appendices; in the event of a discrepancy between the wordings of any referenced documents that appears on the list below, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.
    - 1. Annex B – Statement of Work, including appendices and tables;
    - 2. NATO standards;
    - 3. DND standards;
    - 4. U.S. Federal Specifications;
    - 5. U.S. Military Specifications, and
    - 6. Industrial Specifications
  - f) Annex C – Price and Delivery;
  - g) The signed Task Authorizations/Spare Parts Orders (including any attachments, if any);
  - h) Annex F – Industrial and Regional Benefits Requirements;
  - i) Annex D – Task Authorization Procedures;
  - j) Annex E – Spare Parts Ordering Procedures;
  - k) Annex H – Forms;
  - l) Annex G – Certificate of Defence Supplies; and
  - m) The Contractor's bid dated \_\_\_\_\_.

#### **7.12 Contract Closeout**

- 7.12.1 The Contractor must return all documentation, GSM not incorporated into the Work, GFI and GFE, provided by Canada during the course of the Contract within six (6) months of completion of the Contract, or earlier if so requested by the CA.

#### **7.13 Third Party Beneficiaries**

- 7.13.1 It is understood and agreed by the Parties that this Contract is for the sole benefit of the Parties and their respective successors and permitted assigns (and will benefit and bind each respective successor in title to the Parties hereto), and that no third parties will have any rights hereunder.

#### **7.14 Ceremonies and Announcements**

- 7.14.1 The Contractor must not make any public announcement or instigate or engage in any public ceremony in connection with any of the Work without the prior written consent of the Contracting Authority.
- 7.14.2 Canada reserves the right to release, at any time, the names and locations of subcontractors and suppliers, an estimate of the number of jobs created and/or maintained, the work involved, where the work will be performed, and the approximate values of the subcontracts and Canadian Content Values.
- 7.14.3 To the extent possible, Canada will provide the Contractor the opportunity to review any such releases for accuracy and/or sensitivity.

#### **7.15 End-User Certificate**

- 7.15.1 Canada certifies that the goods, services or both ordered under the Contract are purchased by Canada for the exclusive use of the Canadian Forces.

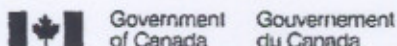
## **STANDARD MILITARY PATTERN (SMP)**

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

Request For Proposal  
W8476-06MSMP/L

Part 8 - Resulting Contract ISS

Annex A  
Security Requirement Check List (SRCL)



Contract Number / Numéro du contrat W8476-06MSMP/002 Amendment 002
Security Classification / Classification de sécurité

**SECURITY REQUIREMENTS CHECK LIST (SRCL)  
LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)**

<b>PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE</b>		
1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine <b>DND</b>		2. Branch or Directorate / Direction générale ou Direction <b>DGMPD/PMO MSVS</b>
3. a) Subcontract Number / Numéro du contrat de sous-traitance		3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant
4. Brief Description of Work / Brève description du travail In Service Support To Standard Military Pattern Vehicle Fleet - Medium Support Vehicle Systems (MSVS)		
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?		<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?		<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui
6. Indicate the type of access required / Indiquer le type d'accès requis		
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c)		<input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?		<input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès		
Canada <input checked="" type="checkbox"/>	NATO / OTAN <input type="checkbox"/>	Foreign / Étranger <input type="checkbox"/>
7. b) Release restrictions / Restrictions relatives à la diffusion		
No release restrictions / Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>	All NATO countries / Tous les pays de l'OTAN <input type="checkbox"/>	No release restrictions / Aucune restriction relative à la diffusion <input type="checkbox"/>
Not releasable / À ne pas diffuser <input type="checkbox"/>		
Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>	Restricted to: / Limité à: <input type="checkbox"/>
Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:	Specify country(ies): / Préciser le(s) pays:
7. c) Level of information / Niveau d'information		
PROTECTED A / PROTÉGÉ A <input checked="" type="checkbox"/>	NATO UNCLASSIFIED / NATO NON CLASSIFIÉ <input type="checkbox"/>	PROTECTED A / PROTÉGÉ A <input type="checkbox"/>
PROTECTED B / PROTÉGÉ B <input type="checkbox"/>	NATO RESTRICTED / NATO DIFFUSION RESTREINTE <input type="checkbox"/>	PROTECTED B / PROTÉGÉ B <input type="checkbox"/>
PROTECTED C / PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL / NATO CONFIDENTIEL <input type="checkbox"/>	PROTECTED C / PROTÉGÉ C <input type="checkbox"/>
CONFIDENTIAL / CONFIDENTIEL <input type="checkbox"/>	NATO SECRET / NATO SECRET <input type="checkbox"/>	CONFIDENTIAL / CONFIDENTIEL <input type="checkbox"/>
SECRET / SECRET <input checked="" type="checkbox"/>	COSMIC TOP SECRET / COSMIC TRÈS SECRET <input type="checkbox"/>	SECRET / SECRET <input type="checkbox"/>
TOP SECRET / TRÈS SECRET <input type="checkbox"/>		TOP SECRET / TRÈS SECRET <input type="checkbox"/>
TOP SECRET (SIGINT) / TRÈS SECRET (SIGINT) <input type="checkbox"/>		TOP SECRET (SIGINT) / TRÈS SECRET (SIGINT) <input type="checkbox"/>

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

**Canada**





Government of Canada  
Gouvernement du Canada

Contract Number / Numéro du contrat W8476-06MSMP/002 Amendment 002
Security Classification / Classification de sécurité

**PART A (continued) / PARTIE A (suite)**

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?  
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes  
Non Oui

If Yes, indicate the level of sensitivity:  
Dans l'affirmative, indiquer le niveau de sensibilité :

9. Will the supplier require access to extremely sensitive INFOSEC information or assets?  
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ No ☐ Yes  
Non Oui

Short Title(s) of material / Titre(s) abrégé(s) du matériel :  
Document Number / Numéro du document :

**PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)**

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

- |                                                                             |                                                                 |                                                      |                                                                  |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------|
| <input checked="" type="checkbox"/> RELIABILITY STATUS<br>COTE DE FIABILITÉ | <input type="checkbox"/> CONFIDENTIAL<br>CONFIDENTIEL           | <input checked="" type="checkbox"/> SECRET<br>SECRET | <input type="checkbox"/> TOP SECRET<br>TRÈS SECRET               |
| <input type="checkbox"/> TOP SECRET - SIGINT<br>TRÈS SECRET - SIGINT        | <input type="checkbox"/> NATO CONFIDENTIAL<br>NATO CONFIDENTIEL | <input type="checkbox"/> NATO SECRET<br>NATO SECRET  | <input type="checkbox"/> COSMIC TOP SECRET<br>COSMIC TRÈS SECRET |
| <input type="checkbox"/> SITE ACCESS<br>ACCÈS AUX EMPLACEMENTS              |                                                                 |                                                      |                                                                  |

Special comments:  
Commentaires spéciaux :

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.

REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work?  
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☐ No ☒ Yes  
Non Oui  
If Yes, will unscreened personnel be escorted?  
Dans l'affirmative, le personnel en question sera-t-il escorté? ☐ No ☒ Yes  
Non Oui

**PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)**

**INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS**

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?  
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☐ No ☒ Yes  
Non Oui

11. b) Will the supplier be required to safeguard COMSEC information or assets?  
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☒ No ☐ Yes  
Non Oui

**PRODUCTION**

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?  
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☐ No ☒ Yes  
Non Oui

**INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF A LA TECHNOLOGIE DE L'INFORMATION (TI)**

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?  
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ No ☐ Yes  
Non Oui

11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?  
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ No ☐ Yes  
Non Oui

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

Canada





Government of Canada  
Gouvernement du Canada

Contract Number / Numéro du contrat
W8476-06MSMP/002 Amendment 002
Security Classification / Classification de sécurité

**PART C - (continued) / PARTIE C - (suite)**

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.  
Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions.  
Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

**SUMMARY CHART / TABLEAU RÉCAPITULATIF**

Category Catégorie	PROTECTED PROTÉGÉ			CLASSIFIED CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET	NATO RESTRICTED NATO DIFFUSION RESTREINTE	NATO CONFIDENTIAL NATO CONFIDENTIEL	NATO SECRET	COSMIC TOP SECRET COSMIC TRÈS SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL CONFIDENTIEL	SECRET	TOP SECRET TRÈS SECRET
											A	B	C			
Information / Aspects Renseignements / Biens Production					✓											
IT Media / Support TI					✓											
IT Link / Lien électronique																

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?  
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No  
Non ☐ Yes  
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".  
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?  
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No  
Non ☐ Yes  
Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).  
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquez qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex B

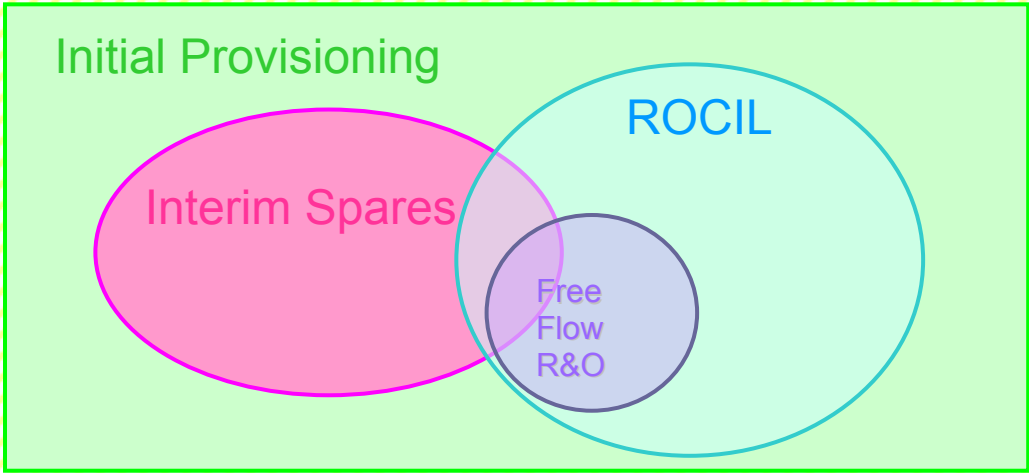
STATEMENT OF WORK



1 INTRODUCTION .....	3
1.1 Scope .....	3
1.1.1 DND Service Delivery Objectives .....	3
1.1.2 SMP Acquisition Contract Legacy .....	3
1.1.3 Support Concept .....	4
1.2 SOW Layout .....	6
1.3 Definitions.....	7
1.4 Terminology.....	7
1.5 SMP Equipment Requirements.....	9
1.6 Equivalent Standards or Parts .....	9
2 ADMINISTRATION.....	9
2.1 Applicable Documents .....	9
2.2 Deliverable Data.....	9
2.3 Delivery of Data.....	10
3 SERVICE REQUIREMENTS.....	10
3.1 Project Management .....	10
3.1.1 Coordination and Management .....	10
3.1.2 Project Performance Management.....	15
3.1.3 Task Management .....	16
3.2 Supply Support.....	17
3.2.1 Spare Parts Provisioning .....	17
3.2.2 Repair and Overhaul.....	19
3.3 Technical Support .....	21
3.3.1 Field Service Representatives (FSR) .....	21
3.3.2 Technical Training to Canada.....	23
3.3.3 Major Repair Program (MRP) .....	23
3.4 Engineering Support .....	24
3.4.1 Engineering Management.....	24
3.4.2 System and Design Engineering .....	25
3.4.3 Logistics Engineering.....	28
3.4.4 Technical Publications .....	30
3.4.5 Configuration Management (CM) .....	31
3.4.6 Obsolescence Management.....	32
3.5 Environmental Health And Safety (EHS) Management .....	33
3.5.1 EHS Management -Core Work.....	33
3.5.2 General .....	33
3.5.3 Environmental Health and Safety Impact Report (EHSIR) .....	33
3.5.4 Contractor Capability and Facility Survey (CCFS) .....	33
3.5.5 EHS Management -Arising Work.....	33
3.6 Electronic Information Environment (EIE).....	33
3.6.1 EIE - Core Work Activities .....	33
3.6.2 EIE - Arising Work Activities .....	35

ID	SOW - In Service Support Requirements
1	<b>1 INTRODUCTION</b>
2	<b>1.1 Scope</b>
2288	This Statement of Work (SOW) defines the work to be performed by the Contractor to provide In-Service Support (ISS) for the Medium Support Vehicle System (MSVS) Standard Military Pattern (SMP) Vehicles, Armoured Protection System (APS) and Trailers procured in the acquisition Contract. This SOW is to be read in conjunction with Attachment BH-1 Mission Profile in order to understand how Canada intends to employ this fleet.
5	This SOW describes the required performance-based services, outcomes for the MSVS SMP support and the Contractor's Performance Based Metrics (PBM) Measurement. The details about the performance measurement definitions and performance levels are identified under Section 3.1.2 of this SOW. The Contractor will be responsible for providing, deploying, and maintaining a business solution which shall be robust, scalable to accommodate volume growth, adaptable to adjust for business process or rule changes, secure to maintain the security and privacy of the data and efficient to deliver the information and services in accordance with defined service standards and prescribed requirements.
2351	Under the scope of this Contract, the Contractor shall be responsible for delivering the services of: <ol style="list-style-type: none"> <li>1. Project Management (as detailed in Section 3.1);</li> <li>2. Supply Support (as detailed in Section 3.2);</li> <li>3. Technical Support (as detailed in Section 3.3);</li> <li>4. Engineering Support (as detailed in Section 3.4);</li> <li>5. Environmental Health and Safety Management (as detailed in Section 3.5);</li> <li>6. Electronic Information Environment (as detailed in Section 3.6).</li> </ol>
2353	<b>1.1.1 DND Service Delivery Objectives</b>
2354	DND's service delivery objectives for the ISS Model Contract regarding the SMP fleet are to: <ol style="list-style-type: none"> <li>1. Establish a strategic, long-term Contractual relationship with the Contractor based on a clear, mutual understanding of each party's respective roles and responsibilities; and</li> <li>2. Define a clear set of Contractor's services that can be measured against defined service standards and clearly defined prescribed requirements, ensuring that DND continues to support the SMP fleet in an operationally sustainable manner in order to: <ol style="list-style-type: none"> <li>a. Reduce maintenance costs;</li> <li>b. Continually improve processes; and</li> <li>c. Contain delivery costs.</li> </ol> </li> </ol>
2292	<b>1.1.2 SMP Acquisition Contract Legacy</b>
2293	As outlined in Article 1.2.4 of the Terms and Conditions of Part 8, the Contractor shall coordinate the activities of the SMP ISS and the SMP Acquisition contracts so that the outcomes of one are supportive and consistent with the other.
2294	The Contractor shall report the transferred activities between contracts, such as but not limited

ID	SOW - In Service Support Requirements
	to, Configuration Management, Environmental Health and Safety (EHS) Management, and others, from the SMP Acquisition Contract until their completion, in accordance with (IAW) Services Status Report CDRL SMP-ISS-011 / DID SMP-ISS-011.
2429	<b>1.1.3 Support Concept</b>
2430	The Support Concept sees DND and the Contractor working together each with its own responsibilities in support of the Vehicles, Trailers, and APSs. The DND responsibilities are detailed below. Other service requirements are Contractor responsibilities, as detailed in this SOW. Further, specific areas of support (maintenance, supply and training) are conceptualized below to enhance understanding of DND's intentions.
2439	<b>1.1.3.1 DND Responsibilities</b>
2440	<p>The DND will work closely with the Contractor to achieve the objectives of the Contract, even though most of the support functions and deliverables will be the sole responsibility of the Contractor. The following functions will be the responsibility of DND:</p> <ul style="list-style-type: none"> <li>a. Operating the Vehicle when in theatre or in North America;</li> <li>b. First and second level maintenance on the Vehicles;</li> <li>c. All levels of maintenance on DND furnished systems;</li> <li>d. Supply support for DND furnished systems;</li> <li>e. Training and training support for DND furnished systems;</li> <li>f. Engineering support for DND furnished systems;</li> <li>g. Provision of consumables such as petroleum, oils, lubricants while in operations;</li> <li>h. Provision of Shelter and food to Field Service Representatives (FSRs) while in theatre; and</li> <li>i. Ab-initio, conversion and Steady state training to Canadian Forces (CF) operators and technicians.</li> </ul>
2432	<b>1.1.3.2 Maintenance Concept</b>
2433	The maintenance concept follows the guidance of the Canadian Forces Land Equipment Management System (LEMS), B-GL-342-001/FP-000, such that CF technicians will be trained and outfitted to conduct Level One and Level Two maintenance tasks at CF Bases in North America or in theatre. This concept includes the Contractor performing Level Three and Level Four repairs.
2435	The level of maintenance refers to the complexity of the work required. The level of maintenance can significantly affect the structure of maintenance units. Tasks with significant engineering content can require special equipment and skills to accomplish. Canadian Forces Units that are not often expected to move, may be an option to carry out tasks of long duration.
2434	<p>The Levels of maintenance are:</p> <p>Level One: This includes operator maintenance and preventive maintenance such as servicing, preliminary diagnosis of faults and corrective maintenance tasks of a minor nature. The term "minor nature" infers short duration (usually less than four hours) and relatively simple repairs. Further information on operator maintenance is found in A-LM-158-005/AG-001.</p> <p>Level Two: This includes corrective maintenance by repair or replacement of parts and assemblies, limited only by time (this limit is campaign dependant, but usually is limited to 24 hours).</p>

ID	SOW - In Service Support Requirements
	<p>Level Three: This includes corrective maintenance of longer duration than level two, reconditioning of assemblies, rebuild of minor components, limited calibration, reclamation and limited manufacture. The Repair and Overhaul program service outlined in this SOW is included as Level Three repairs.</p> <p>Level Four: This includes complete fabrication or manufacture to design specifications, retrofit, mid-life improvements and likely a production line capability. It is a permanent facility normally outside a theatre of operations. The Major Repair Program service outlined in this SOW is included as Level Four repairs.</p>
2436	<b>1.1.3.3 Supply Support Concept</b>
2437	The supply support concept is based upon the Contractor providing services to include spare parts delivery, Special Tools and Test Equipment (STTE) delivery, and Repair and Overhaul activities. The Contractor will maintain a capability to provide all spare parts and major assemblies required for Canada to support the SMP Equipment throughout its life cycle. Canada will carry out Level One and Level Two repairs and procure and stock the spares needed to conduct those repairs from the Contractor. The Contractor will carry out Level Three and Level Four repairs and shall provide all spares and consumables required for it from its own supply or from Contractor Held Inventory, which may include Levels One to Four spares.
2446	Figure 1 (below) depicts the relationships between the different categories of support items to be discussed and coordinated throughout this SOW. This figure should help visualize the components to be managed by the Contractor and/or its sub-contractors for all levels of maintenance, as required.
2442	<p><b>Provisioning Parts Breakdown (PPB)</b></p>  <p>Figure 1. Provisioning Parts Breakdown (PPB) Relationships</p>
2443	<p>Acronyms of Figure 1:</p> <p>PPB: Provisioning Parts Breakdown. A top-down breakdown of the equipment in the configuration in which it is being procured. It is composed of all the assemblies,</p>

ID	SOW - In Service Support Requirements
	<p>subassemblies and parts that constitute the Vehicle, APS and Trailer and are needed to support the Vehicle, APS and Trailer through its entire life.</p> <p>Initial Provisioning. A list of spare parts deemed necessary by Canada to maintain the equipment and/or, where applicable, its associated support equipment. It is composed of all the spares that are recommended to be required, purchased and housed by DND to perform 1st and 2nd level of maintenance activities, for a period of 24 months exclusive of any warranty period. This list comprises two subsets, the Interim Spares (defined below) and the remaining balance of Initial Provisioning Spares. Actual purchase of Initial Provisioning to be determined following both the Preliminary Initial Provisioning Conference (IPC), as detailed in the Acquisition Contract for Interim Spares, and the Final IPC for the remaining balance.</p> <p>RSPL: Recommended Spare Parts List. A list of spare parts recommended by the contractor to maintain the equipment and/or, where applicable, its associated support equipment. It is composed of all the spares that are recommended to perform 1st and 2nd level of maintenance activities, for a period of 24 months exclusive of any warranty period. Used to determine the actual purchase of Initial Provisioning which is to be determined following the Final IPC.</p> <p>IS: Interim Spares. Spares within the Initial Provisioning, determined to be procured at the Preliminary IPC, that are needed before first Vehicle, APS or Trailer delivery, which ever comes first, in order to support early deployment of the equipment. Actual purchase to be determined following the Preliminary IPC.</p> <p>ROCIL: Repair &amp; Overhaul Candidate Item List (also "R&amp;O CIL") comprises the spares within the Initial Provisioning that DND determines will be a candidate for R&amp;O, based on recommendation by the Contractor. Final ROCIL to be determined following the Final IPC.</p> <p>Free Flow R&amp;O : Comprises the spares that are included within the R&amp;O CIL and for which authority is granted to the contractor to proceed with the R&amp;O upon reception of the parts.</p>
2438	<b>1.1.3.4 Training Concept</b>
2441	The Training Concept is based upon training activities completed to satisfy Familiarization Training, Initial Cadre Training, as well as Ab-initio Training, Conversion Training, and Steady-State Training. Familiarization Training and Initial Cadre Training will be the responsibility of the Contractor through the Acquisition Contract while all other training activities will be the responsibility of DND. Additional training may be requested as described at paragraph 3.3.2.2.
1783	<b>1.2 SOW Layout</b>
1784	The following sections and appendices form part of this SOW:
1785	Section 1 - Introduction
2270	The Section 1 states the purpose and objective as well as identifies the definitions and terminology used in this SOW.
1786	Section 2 - Administration
2276	The Section 2 identifies the Standards, Specifications and other similar documents applicable to the work under this SOW. This section also states the administrative requirements about

ID	SOW - In Service Support Requirements
	the data deliverable under this SOW.
1787	Section 3 - Service Requirements
2271	The Section 3 describes the goods and services required from the Contractor to support the SMP Equipment for the period of performance of the Contract. The work required under each section is divided in two categories of work: Core Work and Arising Work. Core and Arising Work are defined below, under Subsection 1.4.
2278	The Appendices elaborate further on the work requirements called for under various Sections of this SOW.
1788	Appendix BA - List of References, Glossary and Abbreviations
1789	Appendix BB - Performance Metrics - Attachment BB-1: Project Management Survey - Attachment BB-2: Not Used
1790	Appendix BC - Not Used
1791	Appendix BD - Not Used
1792	Appendix BE - Electronic Information Environment (EIE)
1793	Appendix BF - Repair and Overhaul
1794	Appendix BG - Major Repair Program
1795	Appendix BH - Mission Profile - Attachment BH-1- Mission Profile
1796	Appendix BI - Contract Data (CDRL, DIDs) - Attachment BI-1: Contract Data Requirements List (CDRL) - Attachment BI-2: Data Item Descriptions (DIDs)
1797	Appendix BJ - Government Supply
1798	Appendix BK - Loan Agreement
13	<b>1.3 Definitions</b>
2304	Definitions and acronyms applicable to the SOW are listed in Appendix BA.
2313	<b>1.4 Terminology</b>
2314	<p>In addition to the definitions in Appendix BA, the terms used within this SOW are to be interpreted as follows:</p> <p>a. <u>Vehicle</u>. The 'Vehicle' stated herein comprises the following configurations:</p> <ol style="list-style-type: none"> <li>(1) Configuration A - Cargo Variant;</li> <li>(2) Configuration B - Load Handling System Variant;</li> <li>(3) Configuration C - Cargo with Crane Variant;</li> <li>(4) Configuration D - Gun Tractor Variant; and</li> <li>(5) Configuration E - Mobile Repair Truck Variant.</li> </ol> <p>b. <u>APS</u>. The Armour Protection System is referred as "APS".</p> <p>c. <u>Trailer</u>. The Load Handling System Trailer is referred as "Trailer".</p> <p>d. <u>Electronic Information Environment (EIE)</u>. The "EIE" stated herein comprises a Contractor provided Collaboration Environment (CE) only. The CE is an internet-based portal, hosted by the Contractor. The collaboration environment is the means for Canada to access modify and exchange technical and support data through the internet browser on the DND Defence Wide Area Network (DWAN) and from any stand alone internet station. The DWAN Internet Browser is able to support web-based portals, FTP sites and authorized HTTPS sites.</p>

ID	SOW - In Service Support Requirements
	<p>e. <u>New Materiel</u>. New materiel is the product manufactured/supplied by the principal manufacturer or its accredited agent and that conforms to the current issue of the applicable drawing, specification and/or part number that is in effect on the date of the order;</p> <p>f. <u>Non-New Materiel</u>. An item that may or may not have been used and is otherwise in serviceable condition meeting the manufacturer's performance specification;</p> <p>g. <u>Overhaul</u>. The restoration of an item to its original condition/near life expectancy. It includes the replacement of worn, damaged or life expired parts; the incorporation of approved modifications; and the rework of components as necessary;</p> <p>h. <u>Reconditioned Materiel</u>. An item that was maintained in order to be returned to a serviceable condition by replacement of components that are subject to wear is referred to as Reconditioned Material. For Reconditioned Material, the wear tolerances and the item's serviceable condition criteria have to be in accordance with the manufacturer's reconditioning performance specifications and may not meet that of a new item;</p> <p>i. <u>Repair</u>. The restoration or replacement of parts or components of materiel as necessitated by wear and tear, damage, failure of parts or the like in order to maintain the specific item of supply in efficient operating condition; and</p> <p>j. <u>Fielding</u>. The time period beginning one month before the delivery of the first Vehicle, APS or Trailer to the Equipment Fielding Coordination Centres (EFCC), and ending one month after the delivery of the last Vehicle, APS or Trailer to the EFCC.</p> <p>k. <u>Core Work</u>. Core Work is all recurring and non-recurring, known work with scope and delivery quantifiable, as approved by Canada for the Contractor to proceed in accordance with the provisions of this ISS Contract;</p> <p>l. <u>Arising Work</u>. Arising Work is all defined and undefined work with unquantifiable and unknown scope and delivery, which will be identified on "as and when requested" basis, shall require specific authorization from Canada for the Contractor to proceed in accordance with the following processes:</p> <ol style="list-style-type: none"> <li>(1) Task authorization as described IAW Terms and Conditions; and</li> <li>(2) Spare Parts Procurement IAW Terms and Conditions.</li> </ol> <p>m. <u>Interchangeability</u>. The ability to remain fully interchangeable following repair. The article must remain fully interchangeable (form, fit and function) with articles catalogued under the same reference number, part number and of the same modification status. This concept of interchangeability must be extended to include internal characteristics such as wave forms and components layout in order to ensure full compatibility with automatic test equipment software and automatic probe.</p> <p>n. <u>Proprietary and Non-Proprietary Spares</u>: A proprietary spare is a spare for which the Contractor is the Original Equipment Manager (OEM) or for which the Contractor has an agreement with the OEM for exclusive sale of the spare. Non-proprietary spares are spares which can be acquired from more than one source of supply, and for which the Contractor must follow procedures as outlined in Part 8 Annex E.</p>

ID	SOW - In Service Support Requirements
643	<b>1.5 SMP Equipment Requirements</b>
6	The SMP Equipment requiring ISS support are: <ul style="list-style-type: none"> <li>a. Vehicles;</li> <li>b. APS;</li> <li>c. Trailers;</li> <li>d. Any software that is specific to the Vehicles, APS and Trailers;</li> <li>e. Support equipment that is specific to the Vehicles, APS and Trailers; and</li> <li>f. Any other equipment that is specific to the Vehicles, APS and Trailers that is not covered by the above.</li> </ul>
1698	<b>1.6 Equivalent Standards or Parts</b>
1699	Unless otherwise indicated, the Contractor may propose a standard or part equivalent to the standard or part specified in the SOW. In such cases, the Contractor shall provide information to the Technical Authority (TA) that demonstrates to the satisfaction of the TA that the intent and rigour of the specified standard and/or fit, form and function of the part will be attained.
1700	The Contractor shall prepare and submit an Equivalent Standards or Parts Justification Report IAW CDRL SMP-ISS-027/ DID SMP-ISS-027 for each specified standard or part where equivalence is being sought.
1701	The Contractor shall immediately comply with the equivalent standard or part approved in the final Equivalent Standards or Parts Justification Report. Use of an equivalent standard or part prior to approval by the TA of that standard or part will be at the Contractor's own risk.
16	<b>2 ADMINISTRATION</b>
17	<b>2.1 Applicable Documents</b>
19	The documents referenced in this SOW and listed in Appendix BA, List of References, Glossary and Abbreviations, are applicable only to the extent specified herein. Unless otherwise specified, the issue or amendment of documents applicable to this SOW shall be those in effect December 2011. In the event of a conflict between the documents referenced herein and the contents of the SOW, the contents of the SOW shall take precedence. The Contractor shall immediately notify the Contract Authority (CA) of discrepancies discovered within or among any of the documents that form part of this SOW and its Appendices and Attachments.
21	In the event that reference documents are updated (either with newer versions or cancelled altogether), the use of the newer version, or the continued use of the cancelled reference, shall be subject to review by the TA. Any changes to the reference documents will be incorporated into the Contract IAW Article 1.7 of the Terms and Conditions (T&Cs).
2112	<b>2.2 Deliverable Data</b>
2113	The Contractor shall prepare and deliver, to Canada's satisfaction, all data specified in the Contract Data Requirements List (CDRL) and Data Item Description (DID) in accordance with instructions contained in Appendix BI, Attachment BI-1 and Attachment BI-2 respectively.
2114	The descriptions and field contents of the CDRL and DIDs are contained in Appendix BI.
2115	As required, the Contractor shall revise and resubmit all data items within 15 working days of receipt of Canada's comments, unless specified otherwise.
2116	The Contractor shall maintain and revise all data items as necessary to reflect approved changes to the Contract.



ID	SOW - In Service Support Requirements
2118	<b>2.3 Delivery of Data</b>
2119	The Contractor shall produce and deliver data items using MS Office (saved in a version compatible with MS Office 2003) for documents and MS Project (saved in a version compatible with MS Project 2003) for schedules. Unless otherwise stated, all data deliverables shall be submitted in English.
2120	Data items shall be delivered via the Electronic Information Environment (EIE) as defined in paragraph 3.1.1.1.13 of this SOW.
2121	The Contractor shall notify the CA whenever a data item cannot be delivered via the EIE and propose an alternative interim means of delivery, for items requiring delivery via the EIE. Use of an alternate means of delivery shall not preclude compliance with the delivery date for the respective data item. The Contractor shall post the data item on the EIE when it is possible. Upon implementation of the EIE, the Contractor must update the EIE with all previously delivered data.
2122	The Contractor shall make available to Canada any or all Contractor policies and procedures, or other data that are referred to in this SOW or in the Contractor's data items, whenever a request is received from Canada. The Contractor shall make data requested available through EIE within five working days of receiving a request.
30	<b>3 SERVICE REQUIREMENTS</b>
548	The Contractor shall provide goods and services to support the SMP Equipment for the period of performance of the Contract. The goods and services required are grouped into the following types: <ol style="list-style-type: none"> <li>1. Project Management;</li> <li>2. Supply Support;</li> <li>3. Technical Support;</li> <li>4. Engineering Support;</li> <li>5. Environmental Health and Safety (EHS) Management; and</li> <li>6. Electronic Information Environment.</li> </ol>
2308	Any Arising Work within the scope of this SOW that is not already covered by the Core Work will be authorized IAW the Additional Work Requirements (Article 1.6) of the Terms and Conditions.
42	<b>3.1 Project Management</b>
2006	The Contractor shall provide Project Management (PM) services and conduct project management processes to initiate, plan, execute, control, and closeout the work using the methodology and practices defined in the Project Management Institute's PM Standard-Project Management Body of Knowledge (PMBOK) ( <a href="http://www.pmi.org">www.pmi.org</a> ).
2008	The Project Management activities shall include, the management work identified in this SOW.
1322	<b>3.1.1 Coordination and Management</b>
1329	<b>3.1.1.1 Coordination and Management - Core Work Activities</b>
302	The Contractor shall provide and maintain a Project Management capability for the period of performance of the Contract to manage the project schedule, cost, scope, risk and quality, and to provide data and administer the delivery requirements of the In Service Support Contract (ISSC), for both Core Work and Arising Work.

ID	SOW - In Service Support Requirements
	<p>The Contractor will have personnel responsible to coordinate strategic and tactical management, policy, doctrine, and decision-making pertaining to the ISS of the SMP Equipment. The Contractor shall be responsible to perform the following as required:</p> <ul style="list-style-type: none"> <li>a. provide technical advice and provide proposed solutions;</li> <li>b. liaise with the OEMs for systems engineering issues, and for the spare parts customer service support; and</li> <li>c. assist DND to monitor available fleet management data, R&amp;O repair analysis reports, and other repair activities, to identify failure trends that require investigation.</li> </ul>
1448	<b>3.1.1.1.1 Deleted</b>
2450	<b>3.1.1.1.2 Deleted</b>
301	<b>3.1.1.1.3 Contractor ISS Project Manager</b>
47	The Contractor shall provide an experienced and fully qualified Project Manager to manage all of the program and technical matters that are related to the services identified by this SOW (both Core Work and Arising Work). The Contractor shall ensure that the Project Manager has the necessary authority to coordinate work from Contractor personnel and other resources, including subcontractors.
48	The Contractor shall ensure that other points of contact for Canada are provided, as appropriate, for properly and efficiently coordinating the Work of ISSC.
439	Until the hand over from Acquisition Contract, the Contractor's ISS Project Manager and Contractor's Integrated Logistic Support Manager (ILSM) of the Acquisition Contract shall closely coordinate their work. In no instance is there to be a duplication of effort. If the Contractor so desires, the ILSM of the Acquisition Contract may also be the Project Manager of the ISS Contract, provided the requisite qualifications for both positions are held by that person.
303	<b>3.1.1.1.4 In-Service Support Plan (ISSP)</b>
440	The Contractor shall prepare, deliver and implement the ISSP IAW CDRL SMP-ISS-001/DID SMP-ISS-001, once approved, to identify and prioritize the necessary logistic support for the period of performance of the Contract.
1643	The Contractor shall utilize an integrated system approach to define and accomplish the in-service support tasks and maintain program schedules.
305	The Contractor shall use the Canada approved ISSP as the main working document for the project management of the Contract.
1437	<b>3.1.1.1.5 Annual Operating Plan (AOP)</b>
1438	The Contractor shall prepare, deliver and implement the Annual Operating Plan (AOP) IAW CDRL SMP-ISS-002/DID SMP-ISS-002, once approved. The AOP is the Contractor-developed, Canada-accepted work scope, funding, and performance plan for the following fiscal year (1 April - 31 March).
1444	<b>3.1.1.1.6 Inputs from Canada for the AOP</b>
1445	Canada will provide the following minimum inputs no later than 1 October prior to commencement of each fiscal year (1 April - 31 March), to enable the Contractor to develop the AOP:

ID	SOW - In Service Support Requirements
	<ul style="list-style-type: none"> <li>a. Changes in fleet size;</li> <li>b. Changes in mission or usage profile;</li> <li>c. Estimated available funds;</li> <li>d. Priority List for engineering focus;</li> <li>e. Stand alone modification programs;</li> <li>f. Requirements for Contractor support for training;</li> <li>g. Operations that will require Contractor support;</li> <li>h. Additional Work Requests (AWR) including and outside of Arising Work; and</li> <li>i. Changes in Performance Management Metrics.</li> </ul>
1588	<b>3.1.1.1.7 Long Term Plan (LTP)</b>
1590	The Contractor shall prepare, deliver and implement the LTP IAW CDRL SMP-ISS-003 / DID SMP-ISS-003, once approved, that outlines SMP Equipment sustainability over a five year period.
217	<b>3.1.1.1.8 ISS Management Team</b>
218	The Contractor shall, with Canada, establish an ISS Management Team (ISSMT) consisting of Canada and Contractor personnel that will meet regularly to discuss progress and resolve issues as they arise. The ISSMT may from time to time establish joint Canada/Contractor Working Groups to resolve detailed ISS technical issues.
220	<b>3.1.1.1.8.1 ISS Management Team Function</b>
221	<p>The function of the ISSMT is to provide a forum for, but is not limited to, the following:</p> <ul style="list-style-type: none"> <li>a. Discussion of foreseeable problems and proposed solutions including an assessment of their impact on the ISSC in terms of deliverables, schedule and risk;</li> <li>b. Action Items review;</li> <li>c. Risk / Issues review;</li> <li>d. Performance Exception List review;</li> <li>e. Identification and investigation of opportunities to further reduce the SMP Equipment Life Cycle Cost (LCC);</li> <li>f. Formulate approaches and priorities to resolving ISS problems or potential problems, including the time and effort required to enact the solution;</li> <li>g. Provide an explanation of any schedule variation and the corrective action to be taken;</li> <li>h. Ensure that appropriate follow-up action is taken for each identified ISS problem or potential problem;</li> <li>i. Coordinate the efforts of the ISS elements and the interface with other areas of the program organization and reviews; and</li> <li>j. Ensure Contractor compliance with applicable requirements, regulations, specifications, standards, and guidelines.</li> </ul>
1407	<b>3.1.1.1.9 Meetings</b>
1408	<b>3.1.1.1.9.1 Kick-off Meeting</b>
1409	The Contractor shall organize an ISS Kick-off Meeting, at its location, with Canada in conjunction with Acquisition Contract Kick-off Meeting no later than 14 calendar days after the Contract award. The Contractor shall forward a list of meeting attendees for review and approval to both the TA and the CA no later than 7 calendar days prior to the meeting.

ID	SOW - In Service Support Requirements
1411	As part of the Kick-off Meeting, the TA will provide detailed feedback to the Contractor concerning the contents of the draft plans submitted as part of its proposal. This feedback shall be used by the Contractor to amend its plans accordingly and deliver them in accordance with the CDRL.
222	<b>3.1.1.1.9.2 ISS Management Team (ISSMT) Meetings</b>
219	ISSMT Meetings shall be co-chaired by the CA, TA and the Contractor's ISS Project Manager.
224	ISSMT Meetings shall be convened on a monthly basis from Contract Award until the end of equipment delivery, and quarterly thereafter. Meeting dates shall be mutually agreed upon.
2229	The CA or Contractor may convene additional ISSMT meetings should there be a requirement to do so.
442	As practical, ISSMT Meetings shall be held with and in the same location as Integrated Logistics Support Management Team (ILSMT) meetings of the Acquisition Contract.
649	Working Group Meetings and Annual Performance Review Meetings, as described further in this SOW, shall be scheduled, as practical, in conjunction with the ISSMT Meetings.
307	<b>3.1.1.1.9.3 Meeting Facilities</b>
2230	ISSMT Meetings shall be convened at the Contractor's facility, unless stated otherwise in the SOW, or at an alternate location as agreed to by the co-chairs.
308	The Contractor shall provide, at its location, a venue with the necessary facilities, including telephone and internet connection, suitable for hosting meetings.
1134	The Contractor, by mutual agreement with Canada, may convene video or telephone conferences in lieu of face-to-face meetings.
298	<b>3.1.1.1.9.4 Meeting Agendas and Minutes</b>
1135	The Contractor shall prepare and submit a Meeting Agenda for all meetings including the Kick-off meeting, ISSMT meetings, Working Groups, Reviews and Conferences IAW CDRL SMP-ISS-004 / DID SMP-ISS-004.
1136	The Contractor shall prepare and submit Meeting Minutes for all meetings including the Kick-off meeting, ISSMT meetings, Working Groups, Reviews and Conferences IAW CDRL SMP-ISS-005 / DID SMP-ISS-005.
310	<b>3.1.1.1.9.5 Supporting Documentation</b>
311	The Contractor shall provide supporting documentation such as schedules, lists, tests, design analysis and other data in support of the meetings. The required supporting documentation shall be provided in conjunction with the delivery of the preliminary Meeting Agenda, in electronic formats, including MS Power Point presentations, available to Canada, through the Electronic Information Environment (EIE).
582	<b>3.1.1.1.10 Master Project Schedule</b>
583	The Contractor shall prepare and deliver an ISS Master Project Schedule (MPS) IAW CDRL SMP-ISS-006 / DID SMP-ISS-006.
584	Upon receiving Canada's approval, the Contractor shall baseline the schedule and thereafter clearly indicate actual progress against the baseline.
1132	The Contractor shall manage, track and report the work in accordance with baseline schedule.
586	The Contractor shall obtain written approval from Canada prior to revising the baseline.
679	<b>3.1.1.1.11 Action Item Log</b>
680	The Contractor shall record all action items arising from meetings, reviews or correspondence.

ID	SOW - In Service Support Requirements
681	The Contractor shall maintain an Action Item Log IAW CDRL SMP-ISS-007 / DID SMP-ISS-007 and make the log available to Canada through the EIE.
1137	<b>3.1.1.1.12 Risk/Issue Tracking</b>
1138	The Contractor shall implement a risk management process, maintain a Risk Register IAW CDRL SMP-ISS-008 / DID SMP-ISS-008, and make the register available to Canada through the EIE.
1140	The Contractor shall input all risks and issues identified by the Contractor and Canada in the Risk Register.
1495	<b>3.1.1.1.13 Data Management</b>
1496	The Contractor shall, in accordance with the ISSP, implement a Data Management Program to control access to and delivery of the Contract data and deliverables.
1499	<b>3.1.1.1.13.1 Delivery of Data via the EIE</b>
1500	The Contractor shall provide, test and implement an EIE capability, as specified under paragraph 3.6 of this SOW, to enable Canada to securely access, control, transfer, manipulate and manage the Acquisition and ISS contracts data and SMP Equipment data in a timely fashion so that all authorized parties associated with SMP Acquisition and ISS have the information they need to properly perform their work.
1502	<b>3.1.1.1.13.2 Management of EIE Data</b>
1503	The Contractor shall manage data deliverables and other data, including Government Furnished Information, within the EIE in accordance with the EIE Specification.
1504	The Contractor shall review with the TA, on a mutually agreed frequency, the status of CDRL items, and the CDRL Item Database as specified in the EIE Specification, for completeness, accuracy and clarity, and perform the required amendments.
1505	The Contractor shall make the CDRL Item Database available for review by the TA through EIE within six MACA and maintain its availability throughout the duration of the Contract.
1506	<b>3.1.1.1.13.3 Notification of Data Delivery</b>
1507	The Contractor shall notify the CA and the TA or their designated representatives via Canada-approved electronic means, about the data deliverables availability for information, review or approval as applicable.
1508	The Contractor shall include the following information in its notification: <ul style="list-style-type: none"> <li>a. CDRL Item number;</li> <li>b. Data Item revision number and date;</li> <li>c. Title of the Data Item; and</li> <li>d. Contract number.</li> </ul>
1509	<b>3.1.1.1.13.4 Maintenance and Revision of Data Items</b>
1510	The Contractor shall include a change history with each Data Deliverable to include: <ul style="list-style-type: none"> <li>a. The date of issue;</li> <li>b. A description of the change made; and</li> <li>c. The version/revision incorporating the change.</li> </ul>
1324	<b>3.1.1.2 Coordination and Management - Arising Work Activities</b>

ID	SOW - In Service Support Requirements
1382	<b>3.1.1.2.1 Contract Transition Plan</b>
1799	In the event of parting with the Contractor for any reason, the Contractor agrees to cooperate with Canada to develop, prepare, deliver and implement a mutually agreed and approved Contract Transition Plan.
1383	The Contractor shall facilitate an orderly transition of support services from the Contractor to a third party designated by Canada.
44	<b>3.1.2 Project Performance Management</b>
1341	<b>3.1.2.1 Project Performance Management - Core Work Activities</b>
2279	<b>3.1.2.1.1 Contractor Performance Measurement</b>
2424	The Contractor shall maintain a performance measurement capability throughout the duration of this Contract.
2426	The performance metrics will be assessed for the first time during year 4 of the Contract, without any associated incentive or disincentive. This will be a dry run to ensure that performance metrics are reasonable and relevant.
2427	The performance metrics will be assessed during year 5 of the Contract and the incentive will be the award of an option period of up to five years for the In Service Support.
2282	<b>3.1.2.1.1.1 Performance Metrics</b>
2280	The Contractor's overall performance will be measured using quantitative outcome criteria. The guidance for measurement is outlined below and in Appendix BB - Performance Metrics.
2281	The Contractor may be required to achieve the performance targets specified in the following PBM as per Appendix BB: <ol style="list-style-type: none"> <li>1. Project Management Responsiveness;</li> <li>2. Technical Problem Management;</li> <li>3. Spares Delivery Management;</li> <li>4. Repair and Overhaul (R&amp;O) Delivery Management; and</li> <li>5. Major Repair Program Performance.</li> </ol>
1424	<b>3.1.2.1.2 Contractor Performance Measurement Plan</b>
1425	The Contractor shall prepare, submit and implement the Performance Management Plan (PFMP) in accordance with CDRL SMP ISS-010 / DID SMP-ISS-010, once approved.
505	<b>3.1.2.1.3 Performance Improvement</b>
51	The Contractor shall develop and implement initiatives for corrective action and performance improvement to increase customer satisfaction when necessary. The effort on any given initiative shall not be used as an excuse for detraction from the Contractor's responsibility for performance in other areas.
507	<b>3.1.2.1.4 Services Status Report</b>
53	The Contractor shall provide a Services Status Report IAW CDRL SMP-ISS-011 / DID SMP-ISS-011 with a view to update Canada on progress and performance.

ID	SOW - In Service Support Requirements
508	<b>3.1.2.1.5 ISS Performance Exception List</b>
54	There may be instances where the Contractor is unable to meet the performance requirements as a result of changing Canada priorities and processes. In these instances, and as mutually agreed, Canada may grant specific performance relief to the Contractor on a case-by-case basis.
594	The Contractor shall maintain a consolidated list of performance relief granted by Canada in a Performance Exception List (PEL) as part of CDRL SMP-ISS-011 / DID SMP-ISS-011. Each item on the PEL shall have a specific action plan and be assigned responsibility and commitment dates and shall be discussed at ISSMT Meetings.
516	<b>3.1.2.1.6 Annual Performance Review Meeting</b>
58	Annually starting at Year 4 of the Contract, throughout the period of performance of the Contract, the Contractor shall convene an Annual Performance Review Meeting. This meeting will provide an opportunity for the parties to share, discuss and rate the Contractor's overall performance IAW Appendix BB. The annual period of performance shall be from 1 April to 31 March.
1326	<b>3.1.2.2 Performance Management - Arising Work Activities</b>
1327	No Arising Work has been identified at this time.
45	<b>3.1.3 Task Management</b>
1143	<b>3.1.3.1 Task Management - Core Work Activities</b>
1374	<b>3.1.3.1.1 Management of Tasks</b>
1389	For the Core Work activities listed here, Canada will provide, as required, details of the tasks to be performed including but not limited to: <ul style="list-style-type: none"> <li>a. CMO Rep tasks investigation and provision of technical /administrative responses to problems regarding project management, supply support, technical services, engineering services and EIE;</li> <li>b. Field Service Representatives (FSRs) tasks;</li> <li>c. Engineering Change Proposal (ECP) and Technical Data Package (TDP) tasks;</li> <li>and</li> <li>d. Preparation of proposals and responses to arising tasks, for example, R&amp;O work requests, reprourement spare parts orders, etc.</li> </ul>
238	<b>3.1.3.1.2 Management of Priorities</b>
170	The Contractor shall abide by the priorities set in the AOP, once approved, for all Core and Arising Work activities. During international and domestic operations, the Contractor shall make best efforts to support Canada's requests for urgent services and support.
646	<b>3.1.3.1.3 Tasking Working Group Meetings</b>
66	The purpose of the Tasking Working Group Meeting is to review the Contractor's tasking performance and to discuss and resolve issues associated with Arising Work Activities. These meetings shall be conducted as required and normally be held in conjunction with ISSMT Meetings. The Contractor, the CA, the TA and the Requisitioning Authority (RA) shall be appropriately represented.

ID	SOW - In Service Support Requirements
1323	<b>3.1.3.2 Task Management - Arising Work Activities</b>
2452	No Arising Work has been identified at this time.
93	<b>3.2 Supply Support</b>
1219	<b>3.2.1 Spare Parts Provisioning</b>
1331	<b>3.2.1.1 Spare Parts Provisioning - Core Work Activities</b>
571	The Contractor shall maintain a capability to provide spare parts listed in Annex C for the SMP Equipment life cycle. Canada intends to purchase spare parts for first and second levels of maintenance as identified during initial provisioning activity of the Acquisition contract. Reprocurement spares will be ordered by the Requisition Authority as Arising Work.
2346	The Initial Provisioning Spares listed at Appendix 2 of Annex C will be provided as follows: <ul style="list-style-type: none"> <li>a. Interim Spares: The Contractor shall provide and deliver all the Interim Spares, prior to first Vehicle delivery. The Interim Spares List will be finalized at the Preliminary IPC at 2 MACA; this should provide sufficient time for the Contractor to deliver the spares on that list prior to the first Vehicle delivery.</li> <li>b. Remainder of Initial Provisioning Spares: The Contractor shall provide and deliver the remainder of the Initial Provisioning Spares, prior to last Vehicle delivery.</li> </ul>
1233	<b>3.2.1.1.1 Supplied Materiel</b>
1234	The Contractor shall ensure that materiel supplied is new materiel. On an exceptional basis, and upon approval from Canada, non-new or reconditioned materiel may be supplied. In such instances, the Contractor shall provide certification that the non-new or reconditioned materiel is in conformance to the applicable Original Equipment Manufacturer (OEM) performance specification. The Contractor shall notify Canada if an item is superseded or made obsolete, IAW the Obsolescence Management process. The Contractor shall obtain consent, from the CA, prior to incurring further costs related to the processing of an order for such a superseded or obsolete item.
1235	<b>3.2.1.1.2 Incomplete Assemblies</b>
1236	The Contractor shall not ship incomplete assemblies against a requirement unless prior authority for such shipment has been obtained from the RA.
2054	<b>3.2.1.1.3 Spare Parts Turn Around Time (TAT)</b>
2055	For spare parts performance measurement purposes, the term "Turn Around Time" is defined as the elapsed time between when: <ul style="list-style-type: none"> <li>a. Canada places the order, and</li> <li>b. the delivery slip is signed by DND when the item is delivered at specified DND location.</li> </ul>
2056	Replenishment spare parts TAT shall be as per Annex C and are generally between 10 and 20 days.
2058	Quotations for Urgent Operational Requirements spares shall include the TAT for that request and be provided within one business day.



ID	SOW - In Service Support Requirements
1648	<b>3.2.1.1.4 Items Without Identification Plates</b>
1731	For materiel which do not have Identification Plates, the Contractor shall apply and position the bilingual Identification Plates, in accordance with: <ul style="list-style-type: none"> <li>a. C-02-006-002/AG-000; and</li> <li>b. D-02-002-001/SG-001.</li> </ul>
1732	Canada will provide a list of applicable NATO Stock Numbers (NSNs) to the Contractor for inclusion on the Identification Plate prior to the commencement of the marking. The Contractor shall update all applicable documentation with the NSN identifier.
1656	<b>3.2.1.1.4.1 Item Markings</b>
1657	The Contractor shall mark the original manufacturer's part number, serial number and NATO Stock Number (NSN) on each item in Human-Readable Interpretation (HRI) markings.
1658	The Contractor shall apply and position all item markings in accordance with D-02-002-001/SG-001 and C-02-006-002/AG-000.
1666	<b>3.2.1.1.5 Identification, Shipping and Packaging Data</b>
1667	<b>3.2.1.1.5.1 Package Labelling</b>
1668	The Contractor shall ensure that in addition to the required interior and exterior package markings, the following data is also included in the package label: <ul style="list-style-type: none"> <li>a. specification number;</li> <li>b. manufacturer's name;</li> <li>c. drawing number;</li> <li>d. batch/lot number;</li> <li>e. qualification number;</li> <li>f. cure date of rubber components;</li> <li>g. shelf life / expiry date;</li> <li>h. data required by the Contract or by the commodity specification;</li> <li>i. date of manufacture;</li> <li>j. date of repair or overhaul;</li> <li>k. name of repair or overhaul Contractor; and</li> <li>l. modification status.</li> </ul>
1669	The Contractor shall apply and position these data elements in accordance with D-LM-008-002/SF-001.
1676	<b>3.2.1.1.5.2 Identification, Shipping and Packaging Data Reports</b>
1677	The Contractor shall provide Identification, Shipping and Packaging Data Reports in accordance with CDRL SMP-ISS-013 / DID SMP-ISS-013.
1742	<b>3.2.1.1.5.3 Packaging Instructions</b>
2024	The Contractor shall update the Identification, Shipping and Packaging Data initially established in the SMP Acquisition Contract, when determined necessary, IAW CDRL SMP-ISS-013 / DID SMP-ISS-013.
1744	Data must be provided for every new line item to be ordered by DND through the Contractor which has a provisioning unit of measure price equal or greater than \$300 Canadian.
2428	The Contractor shall prepare and provide packaging sketches or drawings for items for which the packaging is too complicated to be described by coding or by reference to general specifications.

ID	SOW - In Service Support Requirements
1670	<b>3.2.1.1.5.4 Barcoding Requirements for Shipping/Storage Labels</b>
1671	The Contractor shall apply the NSN or Permanent System Control Number (PSCN), the original part number, the serial number, the lot/batch number and the Contract number to the package using a GS1-128 linear barcode. These data elements must also be replicated in human readable form under the barcode.
1240	<b>3.2.1.1.6 Packaging of Spare Parts</b>
1241	Canada's packaging policy on procurement of materiel is to accept standard commercial packaging whenever possible; the requirement for packaging to military standards is exceptional and is called up only when such packaging is essential because of fragility, complexity or environmental concerns.
1248	<b>3.2.1.1.7 Shipping Instructions</b>
2418	The Contractor shall refer to Terms & Conditions for shipping instructions.
1255	<b>3.2.1.1.8 Monthly Spares Report</b>
1256	The Contractor shall provide the delivery status of spares in a Monthly Spares Report IAW CDRL SMP-ISS-014 / DID SMP-ISS-014.
1262	<b>3.2.1.1.9 Material Change Notices (MCNs)</b>
1264	The Contractor shall provide a MCN IAW CDRL SMP-ISS-015 / DID SMP-ISS-015 to inform Canada of each change to submitted provisioning data.
1426	<b>3.2.1.1.10 Special Tools and Test Equipment (STTE)</b>
2347	The Contractor shall provide and deliver STTE, as defined in Appendix BA, listed in Table 2, of Appendix 2 of Annex C for the SMP Equipment life cycle.
1427	The Contractor shall provide with each STTE, the following: <ul style="list-style-type: none"> <li>a. User manual and technical information; and</li> <li>b. Hard protective case with padded protective interior that is intended to accommodate fragile STTE.</li> </ul>
2419	The Contractor shall provide and deliver minimum quantity of one of each STTE identified in the STTE list approved during Final IPC prior to first vehicle, APS or Trailer delivery.
1253	<b>3.2.1.1.11 Spare Parts Working Group Meetings</b>
1254	The Contractor shall conduct Spare Parts Working Group Meetings to review the Contractor's performance with the provision of spare parts and to discuss and resolve issues. These meetings shall be conducted as required and normally in conjunction with ISSMT Meetings. The Contractor, the CA, the TA and the RA shall be appropriately represented.
488	<b>3.2.1.2 Spare Parts Provisioning - Arising Work Activities</b>
546	The Contractor shall provide reprourement spares and repair parts listed in Appendix 3 of Annex C for the SMP Equipment IAW the spare parts ordering process detailed in the T&Cs.
1270	<b>3.2.2 Repair and Overhaul</b>

ID	SOW - In Service Support Requirements
1342	<b>3.2.2.1 Repair and Overhaul - Core Work Activities</b>
2332	The Contractor shall maintain the capability to provide R&O services, for all applicable depot repairable items identified in the latest approved R&O Candidate Items List.
2344	The Contractor shall have R&O support in place upon delivery of first Vehicle, APS or Trailer which ever comes first.
2330	The Contractor's Repair and Overhaul activities shall be IAW A-LM-184-001/JS-001 and other requirements delineated in Appendix BF -Repair and Overhaul.
1276	The Contractor shall update the R&O Candidates Item List initially established at the Final Initial Provisioning Conference (IPC) in the SMP Acquisition Contract, when determined necessary, IAW CDRL SMP-ISS-032 / DID SMP-ISS-032.
2035	R&O Turn Around Times (TAT) generally are to be achieved within 60 calendar days for items listed on the Selection Notice and Priority Summary (SNAPS) Report IAW A-LM-184-001/JS-001. The term R&O TAT is defined in paragraph 3.2.2.1.1.
2060	<b>3.2.2.1.1 Turn Around Time</b>
2061	For R&O performance measurement purposes, the term "Turn Around Time" is defined as the elapsed time between when : <ul style="list-style-type: none"> <li>a. the Contractor takes receipt on its dock; and</li> <li>b. delivery receipt signed by DND or receipt Waybill generated when the item is delivered at the specified DND location.</li> </ul>
2063	Repair priority is governed by the Selection Notice and Priority Summary (SNAPS) IAW A-LM-184-001/JS-001.
2064	The Contractor shall return R&O items IAW the agreed R&O TAT as specified in Annex C.
2065	<b>3.2.2.1.2 R&amp;O Change of Priority</b>
2066	Upon notification by Canada, the Contractor shall change the priority of repair for an R&O item. If an item is delayed by Canada during its TAT: <ul style="list-style-type: none"> <li>a. the R&amp;O TAT will be increased for the affected item to include the delayed time; and</li> <li>b. the item will not be recorded in the Performance Exception List (PEL) if the delay is less then 30 days.</li> </ul>
1284	<b>3.2.2.1.3 R&amp;O Performance Report</b>
1285	The Contractor shall prepare and deliver R&O Performance Reports IAW CDRL SMP-ISS-017 / DID SMP-ISS-017.
2348	<b>3.2.2.1.4 Beyond Repair (BR)</b>
2349	Beyond Repair (BR) items shall be determined on a case by case basis, as this should not be a common occurrence. The nature of the failure and the overall condition of the component only shall be used as the criteria to determine BR. Consent of the TA through the National Defence Quality Assurance Representative (NDQAR) and the Requisitioning Authority (RA) shall be required to determine BR. Items approved and determined to be BR can be considered as salvage or disposal.
1286	<b>3.2.2.1.5 R&amp;O Working Group Meetings</b>
1287	The Contractor shall conduct R&O Working Group Meetings to review the Contractor's

ID	SOW - In Service Support Requirements
	performance in the provision of R&O services and to discuss and resolve issues. These meetings shall be conducted as required and in conjunction with ISSMT Meetings. The Contractor, the CA, the TA and the RA shall be appropriately represented.
1343	<b>3.2.2.2 Repair and Overhaul - Arising Work</b>
2041	The Contractor shall provide R&O services, on an as and when required basis, for all applicable repairable items listed on R&O Candidate Items List in Annex C.
2420	The Contractor shall R&O all free-flow items listed in Table 1, Appendix 4 of Annex C, as required. These items will be pre-authorized and will not require task authorization.
2421	The Contractor shall return R&O items IAW the agreed R&O TAT as specified in R&O Candidate Items List.
2048	<b>3.2.2.2.1 Beyond Economic Repair (BER)</b>
2051	Beyond Economic Repair (BER) items shall be determined on a case by case basis, as this should not be a common occurrence. It shall apply only to Repairable Materiel Requests, not to Free Flow R&O requests. The nature of the failure and the overall condition of the component shall be used as the criteria to determine BER. Consent of the TA through the NDQAR and the Requisitioning Authority (RA) shall be required to determine BER.
2090	<b>3.2.2.2.2 Use of DND Enterprise Resource Planning (ERP)</b>
2091	The Contractor shall use the DND's Enterprise Resource Planning (ERP) system used for Material Acquisition and Support and vehicle life cycle management, e.g. DRMIS, CFSS for R&O functions/transactions of R&O work. Canada will provide training to Contractor personnel, if required.
1419	<b>3.2.2.2.3 R&amp;O Repair Plan</b>
1416	The Contractor shall prepare, deliver and implement, for a specific major assembly from the R&O Candidate Item List, as requested, an R&O Repair Plan IAW CDRL SMP-ISS-016 / DID SMP-ISS-016 that provides, processes and mandatory replacement parts required to return an R&O item to a serviceable condition as per OEM specification.
144	<b>3.3 Technical Support</b>
2105	The Contractor shall provide technical representatives from the Contractor Services Personnel categories delineated in Annex C.
147	<b>3.3.1 Field Service Representatives (FSR)</b>
1372	<b>3.3.1.1 FSR - General</b>
658	FSR support services are classified as follows: <ul style="list-style-type: none"> <li>a. Initial FSR Support;</li> <li>b. Domestic FSR Support; and</li> <li>c. In-Theatre FSR Support.</li> </ul>
319	The work to be performed by the FSR includes, but is not to be restricted to, the following activities: <ul style="list-style-type: none"> <li>a. assist CF and DND technicians in the repair of SMP Equipment;</li> <li>b. SMP Equipment inspection and repair;</li> </ul>

ID	SOW - In Service Support Requirements
	<ul style="list-style-type: none"> <li>c. SMP Equipment expert technical advice;</li> <li>d. maintenance activities;</li> <li>e. investigation of technical problems including the identification of appropriate corrective actions;</li> <li>f. On the Job Training (OJT) for Canada's personnel (not formal classroom training);</li> <li>g. add-on-armour installation;</li> <li>h. Equipment set-up;</li> <li>i. support to engineering tasks;</li> <li>j. deployment to sites as required;</li> <li>k. planning, scheduling and technical support; and</li> <li>l. resource management.</li> </ul>
652	<p>The Contractor shall ensure that all FSRs have proper educational credentials and are thoroughly experienced to fully carry out the technical and managerial aspects of the work. As a minimum, FSRs shall satisfy the following qualification, authorization, administrative and security requirements:</p> <ul style="list-style-type: none"> <li>a. Certificate of Educational Qualification suitable to the work required as per the Labour Categories defined in Annex C of Part 8;</li> <li>b. Number of years of experience in the field of required work suitable to the work required;</li> <li>c. Function effectively in oral and written English or French;</li> <li>d. OEM qualified, authorized to carry out work in accordance with OEM maintenance specifications; and</li> <li>e. Security clearance level as specified in the SRCL, Annex A.</li> </ul>
654	Upon request, the Contractor shall provide documentary evidence such as educational qualifications certificates, birth certificates and passports as requested by Canada on its proposed personnel to facilitate the necessary security clearances and other arrangements.
1706	The Contractor shall provide all the necessary tools and test equipment required for the FSRs.
557	The Contractor shall provide dedicated means of communication with the FSR such as on-line access or a cell phone.
1373	The FSR shall be in support of the TA's local representative. The FSR will have access to applicable DND maintenance facilities at its location and will work during normal business hours (estimated at 37.5 - 45 hours per week, Monday to Friday, not including Statutory Holidays "recognized by the Treasury Board of Canada"), but may be required to work, by exception, on weekends or holidays with 48 hours notice; 24/7 readiness is not required.
1291	<b>3.3.1.2 FSR - Core Work Activities</b>
552	<b>3.3.1.2.1 Consolidated Field Support Services Reports</b>
554	The Contractor shall prepare and submit Consolidated Field Support Services Reports (CFSSR) IAW CDRL SMP-ISS-018 / DID SMP-ISS-018.
149	<b>3.3.1.2.2 Initial FSR Support</b>
317	The Contractor shall provide Canada with five dedicated deployable hands-on SMP Equipment qualified Technicians as FSRs for the initial first year of Fielding. The Contractor shall deploy one FSR to each of the four main Army bases in Canada, namely Gagetown, Valcartier, Petawawa and Edmonton, at to Montreal at 25 CFSD, and be prepared to travel to and work at other bases or stations within Canada on an as required basis to be determined by Canada. Any and all Travel and Living relating to the FSR will be authorized IAW the Task Authorization Article of the Contract.

ID	SOW - In Service Support Requirements
1292	<b>3.3.1.3 Field Service Representatives - Arising Work Activities</b>
314	<b>3.3.1.3.1 Domestic FSR Support</b>
158	The Contractor shall provide FSR services, required within North America, as requested by Canada IAW Article 1.6 of the Terms and Conditions.
315	<b>3.3.1.3.2 In-Theatre FSR Support</b>
1689	The Contractor shall provide FSRs for technical support in an operational theatre as requested by Canada. Detailed SOW will be addressed at that time and subject to negotiation.
146	<b>3.3.2 Technical Training to Canada</b>
1346	<b>3.3.2.1 Technical Training to Canada - Core Work Activities</b>
1347	No Core Work has been identified at this time.
1345	<b>3.3.2.2 Technical Training to Canada - Arising Work</b>
157	The Contractor shall provide training courses or OJT to Canada's SMP Operators, Technicians and Technical Instructors (Train-the-Trainer). The Contractor shall deliver training at locations directed by the TA, in conjunction with recommendations provided by the Contractor, as approved by the TA.
1352	<b>3.3.3 Major Repair Program (MRP)</b>
1376	<b>3.3.3.1 MRP - General</b>
628	Canada will require a MRP for the restitution of the Vehicles, APS and Trailers that have sustained structural damage to a serviceable condition. The repair and restoration of the Vehicle, APS and Trailer consists of inspection, repair and replacement and overhaul of components, as required.
2067	<b>3.3.3.2 Turn Around Time (TAT) for Major Repair Program</b>
2068	Calculation of turnaround time begins on the date on which the Contractor is advised that the Vehicle, APS or Trailer is ready for assessment. For Vehicles, APS and Trailers that will be repaired, turnaround time ends upon the Vehicle, APS or Trailer being presented for DND representative inspection, unless it fails inspection. Vehicles, APS or Trailers assessed by the Contractor as Beyond Economic Repair (BER), subject to DND confirmation, will not be counted for performance measurement.
2069	For the period where there wasn't any Major Repair program Work, the Contractor will be considered to be "On-Time".
2070	The TAT for each Vehicle, APS or Trailer shall be the Contractor estimated time supported by similar task historical data and agreed to by Canada.
1294	<b>3.3.3.3 Major Repair Program - Core Work Activities</b>
419	The Contractor shall have the capability to provide MRP, including control of Major Repair (MR) spare and repair parts (level 1-4) consumption, procurement, receipt, storage, inventory control, issue and processing of R&O material to support its MRP process IAW A-LM-184-

ID	SOW - In Service Support Requirements
	001/JS-001 and as per Appendix BG.
561	<b>3.3.3.3.1 Major Repair Program Reports</b>
162	The Contractor shall prepare Major Repair Program Reports (MRPR) IAW CDRL SMP-ISS-020 / DID SMP-ISS-020 when MRP is in process.
150	<b>3.3.3.4 Major Repair Program - Arising Work Activities</b>
1377	<b>3.3.3.4.1 MRP Services</b>
560	The Contractor shall provide MRP services, including but not limited to, the required inspections, repairs, component replacements and modifications on the Vehicles, APS and Trailers IAW Appendix BG - Major Repair Program.
1295	<b>3.3.3.4.2 MRP Repair Plan and Authorization Process</b>
1296	The Contractor shall provide a detailed assessment, inspection and repair plan for the MRP work on each Vehicle, APS or Trailer.
2142	The TA will review the Contractor's level of effort and repair plan including schedule.
1804	The Contractor shall perform the MRP work authorized by approved DND 626-Task Authorization process.
431	<b>3.3.3.4.3 Certificate of Inspection</b>
624	The Contractor shall prepare and submit form DND 2227/DND 2228 for return of major equipment to DND.
145	<b>3.4 Engineering Support</b>
565	Engineering Support activities include the following: <ul style="list-style-type: none"> <li>a. Engineering Management;</li> <li>b. System and Design Engineering;</li> <li>c. Logistics Engineering;</li> <li>d. Technical Publications;</li> <li>e. Configuration Management; and</li> <li>f. Obsolescence Management.</li> </ul>
1353	<b>3.4.1 Engineering Management</b>
151	<b>3.4.1.1 Engineering Management - Core Work Activities</b>
233	<b>3.4.1.1.1 Engineering Management - General</b>
2350	The Contractor shall continue providing an engineering management capability, as established under the Systems Engineering Management of MSVS SMP Acquisition Contract, during the period of performance of this Contract. This will begin upon completion of the Acquisition Contract.
225	<b>3.4.1.1.2 Engineering Working Group Meetings</b>
666	The Contractor shall form an Engineering Working Group (EWG) and shall conduct EWG

ID	SOW - In Service Support Requirements
	meetings to review and discuss the Contractor's engineering performance and resolve issues. These meetings shall be conducted as required and shall normally be held in conjunction with ISSMT Meetings. The Contractor, CA, TA and RA shall be appropriately represented.
1354	<b>3.4.1.2 Engineering Management - Arising Work Activities</b>
1355	No Arising Work has been identified at this time.
1356	<b>3.4.2 System and Design Engineering</b>
1357	<b>3.4.2.1 System and Design Engineering- Core Work Activities</b>
1547	<b>3.4.2.1.1 Technical Problem Management (TPM)</b>
2311	<p>A technical problem is a condition or event associated with any part of the SMP Vehicle, APS and Trailer or associated support service or function, or their measurable or observable effects, that is unsatisfactory. Technical problems are related to technical data, hardware, software, or a combination of these, and are grouped as follows:</p> <ul style="list-style-type: none"> <li>a. Major Technical Problem - Urgent;</li> <li>b. Major Technical Problem - Non-Urgent; and</li> <li>c. Minor Technical Problem.</li> </ul>
2449	<p>For further clarification, the following terms are defined:</p> <ul style="list-style-type: none"> <li>a. <u>Catastrophic incident</u>. A Catastrophic incident is one which may cause death, complete vehicle loss or severe environmental damage;</li> <li>b. <u>Critical Incident</u>. A Critical Incident is one which may cause severe injury, severe occupational illness, major assembly / system loss (engine, transmission, axle, etc...) or major environmental damage;</li> <li>c. <u>Epidemic Failure</u>. An epidemic failure is a failure that affects 5% or more of the fleet.</li> <li>d. <u>Major Technical Problem - Urgent</u>. A Major Technical Problem - Urgent is one that is known to have caused, or if left unresolved, has significant potential to cause, within the next use of the affected equipment: <ul style="list-style-type: none"> <li>a. Damage to property or equipment;</li> <li>b. Loss of life or injury to personnel;</li> <li>c. Loss or significant degradation of operational capability to perform an urgent mission tasking; or</li> <li>d. Pose a safety hazard to personnel operating the equipment including environmental safety hazards.</li> </ul> </li> <li>e. <u>Major Technical Problem - Non-Urgent</u>. A Major Technical Problem - Non-Urgent is a Technical Problem that could have the consequences of a Major Technical Problem - Urgent, but for which DND judges there to be sufficient time available to resolve the problem before those consequences are likely to be realized. In addition, a Major Technical Problem - Non-Urgent is one that has been determined to cause or is highly likely to cause:</li> </ul>



ID	SOW - In Service Support Requirements
	<ul style="list-style-type: none"> <li>a. A significant degradation in operational capability; and</li> <li>b. A significant reduction in operational availability.</li> </ul> <p>f. <u>Minor Technical Problem</u>. A Minor Technical Problem is a Technical Problem that does neither belong to Major Urgent nor to Major Non-Urgent Technical problem category.</p>
1687	The Contractor shall prepare, deliver and implement the TPM Plan in accordance with CDRL SMP-ISS-012 / DID SMP-ISS-012, once approved.
1548	<b>3.4.2.1.1.1 TPM Identification and Review</b>
1550	The Contractor shall provide a TPM capability, for the period beginning at fielding of first Equipment and ending at end of warranty for the last Vehicle, APS or Trailer delivered, to identify, investigate and resolve technical problems of the SMP Equipment.
1826	<p>The Contractor shall:</p> <ul style="list-style-type: none"> <li>a. detect problems, including product defects and deficiencies, discrepancies in inventory, product non-conformances with the technical performance requirements, contractual requirements, and process non-compliance with engineering plans and standards, and record them in EIE;</li> <li>b. classify problems by category and priority;</li> <li>c. analyze problems to determine the potential system, hardware and software failures;</li> <li>d. track problem report status;</li> <li>e. isolate root causes;</li> <li>f. develop solutions; and</li> <li>g. implement approved solutions.</li> </ul>
1565	<b>3.4.2.1.1.1.1 Review of Technical Problems</b>
1566	<p>The Contractor shall perform a review of all new technical problems received from Canada or Contractor staff, or raised as an outcome of performance monitoring, to:</p> <ul style="list-style-type: none"> <li>a. ensure the nature of the problem is completely and clearly articulated;</li> <li>b. ensure the problem is appropriately classified as Major-Urgent, Major-Non-Urgent, or Minor in accordance with paragraph 3.4.2.1.1.1.2; and</li> <li>c. identify the responsible subject matter expert(s) to which the report will be routed for investigation.</li> </ul>
1567	<b>3.4.2.1.1.1.2 Routing of Technical Problems</b>
1581	The Contractor shall route all technical problems raised by the Contractor to Canada for initial notification.
1568	Upon Canada initial notification, the Contractor shall route technical problems to the applicable subject matter expert(s) for investigation.
2444	The expected rates of failure that are submitted as part of the Proposal for Evaluation purposes will not be used to measure the performance of the vehicle, but will be used to measure the performance of the Contractor in providing Technical Problem Management, as per the performance metrics established in year 3 of the Contract, by Canada and the Contractor during the AOP meeting.
2316	The TA will notify the CA and the Contractor via electronic means, of the occurrence of any failure incident, described above or any Catastrophic or Critical incident or Epidemic failure, and provide any incident report or available investigation report to the Contractor.

ID	SOW - In Service Support Requirements
2445	<b>3.4.2.1.1.2 Catastrophic, Critical Hazard Severity Category of failure or Epidemic Failure</b>
2317	The Contractor shall take immediate fleet corrective action, at the Contractor's expense, to replace or repair any equipment, component or part which experiences a Catastrophic or Critical Hazard Severity Category of failure or an epidemic failure, starting from the end of warranty of the last Vehicle, APS or Trailer delivered and ending 24 months after such warranty expiration, where the failure was caused by a design defect or systemic manufacturing defect.
2320	<b>3.4.2.1.1.3 Classification of Technical Problems</b>
2321	The Contractor, after performing a preliminary investigation of the reported technical problem, may recommend the technical problem be re-classified.
2083	<b>3.4.2.1.1.4 Technical Problem Turnaround Time (TPTAT)</b>
2085	The turnaround time for an instance of a Technical Problem (TP) shall be calculated as the difference between: <ul style="list-style-type: none"> <li>a. the date/time that notification of the TP is received by the Contractor; and</li> <li>b. the date/time that a corrective solution is technically accepted by Canada.</li> </ul>
2087	Problems which have been determined not to qualify as TPs, subject to DND concurrence, shall be excluded from the calculation of turnaround time. All time periods, within the instance of a TP, that the Contractor is formally awaiting DND input or approval decisions shall be excluded from the calculation of TPTAT.
2084	The Contractor shall develop a solution to correct a reported technical problem and prevent its recurrence IAW the following levels of performance: <ul style="list-style-type: none"> <li>a. 7 days for Major-Urgent Technical Problems;</li> <li>b. 25 days for Major-Non-Urgent Technical Problems; and</li> <li>c. 30 days for Minor Technical Problems.</li> </ul> <p>The timelines may change, due to complexity, after mutual agreement between the TA and the Contractor.</p>
152	<b>3.4.2.2 System and Design Engineering- Arising Work Activities</b>
2131	The Contractor shall perform work that includes, but is not limited to, the following activities: <ul style="list-style-type: none"> <li>a. system design, modifications, review and analysis to improve system performance or to provide realistic and feasible technical responses to stated technical issues;</li> <li>b. implement design modifications for the SMP Equipment;</li> <li>c. review proposed changes to ensure that system capabilities are maintained and that safety and performance are not compromised;</li> <li>d. plan and perform technical/engineering services and provide engineering data relevant to operation, maintenance and R&amp;O, including investigation, reports, studies and drawings where required;</li> <li>e. coordinate tests, studies, audits and reviews in its areas of responsibility;</li> <li>f. prepare repair specifications and schematics, maintenance schedules and instructions;</li> <li>g. develop a Life Extension Program (LEP) to extend the useful designed life of the SMP Equipment; and</li> </ul>

ID	SOW - In Service Support Requirements
	h. produce installation instructions for the implementation of modifications.
1549	<b>3.4.2.2.1 Technical Problem Management</b>
1779	The Contractor shall provide Technical Problem Management Services IAW the approved DND 626-Task Authorization process using processes identified in the Core Work for TPM.
1359	<b>3.4.3 Logistics Engineering</b>
1360	<b>3.4.3.1 Logistics Engineering - Core Work Activities</b>
1361	<b>3.4.3.1.1 Logistics Support Analysis Record (LSAR)</b>
251	The Contractor shall update their optimized Logistics Support Analysis Report (LSAR) database to reflect the current configuration of the Vehicle, APS and Trailer, as a continuation of such in the Acquisition Contract.
526	<p>The Contractor shall, upon request, incorporate all authorized changes resulting from Engineering Change Orders (ECOs), field feedback provided by the Life Cycle Material Manager (LCMM), and other changes required by the TA in the LSAR where applicable.</p> <p>The Contractor shall provide the LSAR to Canada upon request, in the commercially available computer tool that is compatible with Canada's current software, OMEGA PS version 14.402, and is compliant with UK DEF STAN 00-60 for storing and processing of LSA data and the production of UK DEF STAN 00-60 predefined reports.</p> <p>The Contractor shall also provide the following LSA Reports upon request from Canada using Canada's OMEGA PS software tool:</p> <ul style="list-style-type: none"> <li>a. LSA-019 Task Analysis Summary Report;</li> <li>b. LSA-023 Maintenance Plan Summary Report; and</li> <li>c. LSA-024 Maintenance Plan.</li> </ul>
524	<b>3.4.3.1.2 Support to the TA</b>
186	The Contractor shall, upon request, provide LSAR data reports as support to the TA.
	<b>3.4.3.1.3 Master Data Protocol Upkeep</b>
	<p>Following the initial data load, any updates to the DRMIS master data initially provided by the Contractor as part of the Acquisition Contract (following an approved engineering change, obsolescence management, or other in-service business processes) must be communicated to DND in the same format as the Initial Data Load files. These changes may include:</p> <p>Addition or updates to Materiel:</p> <ul style="list-style-type: none"> <li>Master Records (MMR)</li> <li>Bill Of Materiel (BOM)</li> </ul> <p>Update to the Vehicle Structure:</p> <ul style="list-style-type: none"> <li>Master Parts List(MPL)</li> <li>Functional Locations (FLOC)</li> </ul> <p>Update to the Maintenance Program :</p> <ul style="list-style-type: none"> <li>Maintenance Task List (MTL)</li> </ul>

ID	SOW - In Service Support Requirements
	Measurement Points (MeasPts) Maintenance Plan (MP) Document Information Record (DIR)
	Following the Initial Master Data Load, the As-Built configuration shall become the As-Maintained configuration within DRMS for the SMP vehicle. The Contractor shall ensure that any new serialised equipment (Equipment Master Record) provided via the supply process is accompanied by its respective Measurements and Maintenance Plan.
	<b>3.4.3.1.3.1 Master Data Change Notice</b>
	The Contractor shall establish a Master Data Change Notice process to be integrated within the overall Configuration Control process.  A DND/Army Central Data Management Team (CDMT) will facilitate the approved changes into DRMS.
	<b>3.4.3.1.3.2 Record Maintenance</b>
	The Contractor shall ensure all Master Data errors and corrections shall be documented and retained for historical purposes for the full life of the SMP ISS Contract.
153	<b>3.4.3.2 Logistics Engineering - Arising Work Activities</b>
179	Logistics Engineering support includes, but is not limited to: <ul style="list-style-type: none"> <li>a. System Life Cycle Cost (LCC) Reduction;</li> <li>b. System Reliability and Performance;</li> <li>c. Logistic Support Analysis (LSA);</li> <li>d. Level of Repair Analysis (LORA);</li> <li>e. Failure Modes, Effects and Criticality Analysis (FMECA); and</li> <li>f. Support to the TA.</li> </ul>
518	<b>3.4.3.2.1 System Life Cycle Cost Reduction</b>
180	The Contractor shall, upon request, identify and propose opportunities for LCC reduction. This may involve investigation of how using appropriate technology will result in potential system enhancements and/or improvements.
242	<b>3.4.3.2.2 System Reliability and Performance</b>
176	The Contractor shall, upon request, investigate system and sub-system reliability and performance issues and be responsive to issues identified by the TA.
1378	The Contractor shall, upon request, analyze the SMP Equipment reliability and performance issues and recommend appropriate actions and changes.
1537	<b>3.4.3.2.2.1 Reliability/Trend Analysis Reports</b>
1538	The Contractor shall monitor, upon request, available fleet management data, R&O repair analysis reports, and other repair activities, available thru the EIE, to identify failure trends that require investigation. The Contractor shall prepare Reliability/Trend Analysis Reports (RTAR) in accordance with CDRL SMP-ISS-021 / DID SMP-ISS-021.
1544	The Contractor shall perform reliability analysis, using MIL-HDBK-338B as a guide, and shall make recommendations to improve system performance.
1546	The Contractor shall initiate a Technical Problem Report if a trend is found.

ID	SOW - In Service Support Requirements
520	<b>3.4.3.2.3 Logistics Support Analysis</b>
182	The Contractor shall, upon request, conduct selected Logistics Support Analysis tasks IAW S3000L or GEIA 0009 in North America.
522	<b>3.4.3.2.4 Level of Repair Analysis</b>
184	The Contractor shall, upon request, provide Level of Repair Analysis (LORA) for the Vehicle, APS and Trailer.
523	<b>3.4.3.2.5 Failure Modes, Effects and Criticality Analysis (FMECA)</b>
185	The Contractor shall, upon request, provide FMECA for the Vehicle, APS and Trailer.
524	<b>3.4.3.2.6 Support to the TA</b>
186	The Contractor shall, upon request, provide the following technical support to the TA: <ul style="list-style-type: none"> <li>a. LORA reports;</li> <li>b. LCC Analysis data;</li> <li>c. Supplementary Provisioning Technical Documentation (SPTD); and</li> <li>d. Support for scaling.</li> </ul>
1362	<b>3.4.4 Technical Publications</b>
154	<b>3.4.4.1 Technical Publications- Core Work Activities</b>
252	<b>3.4.4.1.1 Technical Publication Support</b>
188	The Contractor shall manage the Operator Manual and the Interactive Electronic Technical Manual (IETM) provided to Canada in the Acquisition Contract and all related Technical Data. The Contractor shall ensure that all technical publications and related Technical Data are stored in a manner that protects their integrity.
254	<b>3.4.4.1.2 Technical Publication Change Management</b>
191	The Contractor shall ensure that all authorized changes resulting from Engineering Change Orders (ECOs), field feedback provided by the LCMM, and other changes required by the TA are recorded and implemented in all applicable documentation.
255	<b>3.4.4.1.3 IETM Updates</b>
192	The Contractor shall incorporate all TA approved changes in the IETM.
256	<b>3.4.4.1.4 Documentation Database</b>
194	The Contractor shall maintain the technical publication source files in a technical documentation database in the Contractor's format, on the Contractor's Information Management System.
1381	The Contractor shall ensure the technical publication source files are available to the TA, upon request.

ID	SOW - In Service Support Requirements
1303	<b>3.4.4.2 Technical Publications - Arising Work Activities</b>
568	<b>3.4.4.2.1 Creating Technical Publications</b>
569	The Contractor shall perform the work that includes, but is not limited to, the following activities: <ul style="list-style-type: none"> <li>a. develop new technical publications; and</li> <li>b. if applicable, integrate them into the IETM.</li> </ul>
1363	<b>3.4.5 Configuration Management (CM)</b>
155	<b>3.4.5.1 Configuration Management (CM) - Core Work Activities</b>
2132	The Contractor shall continue providing the CM program, as established under the MSVS SMP Acquisition Contract, during the period of performance of this Contract. This will begin upon completion of the Acquisition Contract. The Contractor shall use ANSI EIA-649-A, as a source and reference document to form the basis for the CM program for this Contract.
1387	The Contractor shall implement processes and procedures that address, as a minimum, the following CM functions: <ul style="list-style-type: none"> <li>a. Configuration Management Planning and Management;</li> <li>b. Configuration Identification;</li> <li>c. Configuration Change Management; and</li> <li>d. Configuration Status Accounting.</li> </ul>
261	<b>3.4.5.1.1 Configuration Management Planning</b>
262	The Contractor shall update, when determined necessary, the Configuration Management Plan (CMP) initially delivered under the MSVS SMP Acquisition Contract, and deliver and implement the updated CMP, IAW CDRL SMP ISS-033 / DID SMP-ISS-033.
263	<b>3.4.5.1.2 Configuration Identification</b>
264	The Contractor shall conduct configuration identification by proposing amendments and updates to the Configuration Item List (CIL) that was produced under the Acquisition Contract.
2108	<b>3.4.5.1.3 Configuration Change Management</b>
2109	The Contractor shall implement configuration Change Management of the Vehicle, APS, and Trailer throughout the duration of the Contract based on the approved CMP.
267	<b>3.4.5.1.3.1 Engineering Change Proposal</b>
199	When a change to the approved product configuration is required, the Contractor shall prepare an Engineering Change Proposal (ECP) IAW CDRL SMP-ISS-022 / DID SMP-ISS-022, including the impact analysis on cost, ILS (any changes to maintenance plans, tasks, employment, STTE, and any other logistics support analysis information that affects Integrated Logistics Support (ILS), project deliverables, environment and health and safety.
269	<b>3.4.5.1.3.2 Request for Deviation/Waiver</b>
205	The Contractor shall prepare and deliver Requests for Deviation (RFD) and/or Requests for Waiver (RFW) IAW CDRL SMP-ISS-023 / DID SMP-ISS-023 to seek authorization to deliver

ID	SOW - In Service Support Requirements
	materiel that does not meet the requirements. A RFD describes a requested departure from a contract requirement for a specified period of time and/or a specified number of units. A RFW obtains authorization to deliver non-conforming materiel which may not meet prescribed documentation but is suitable for use as is or after repair and/or retrofit.
271	<b>3.4.5.1.3.3 Specification Change Notice/Notice of Revision</b>
272	The Contractor shall prepare and deliver Specification Change Notices (SCNs) and/or Notice of Revision (NORs) IAW CDRL SMP-ISS-024 / DID SMP-ISS-024 to describe changes to specifications, drawings, associated lists and other documents following approval of an ECP as applicable.
273	<b>3.4.5.1.4 Configuration Status Accounting (CSA) Report</b>
274	The Contractor shall update the CSA report initially delivered under the SMP Acquisition Contract, when determined necessary, following the delivery of the last MSVS SMP Vehicles, APS and Trailers procured in the acquisition Contract, and deliver CSA reports IAW CDRL SMP-ISS-025 / DID SMP-ISS-025.
278	<b>3.4.5.1.5 Technical Data Package (TDP)</b>
201	The Contractor shall maintain and keep current the TDP for the SMP Equipment provided under the Acquisition Contract. The TDP depicts the physical and functional characteristics of the Canada approved fielded configuration of the Equipment and their subordinate assemblies, subassemblies and parts thereof. The TDP elements include product drawings and associated lists, specifications and software documentation.
1308	The Contractor shall provide Canada with access to the TDP elements through the EIE, within two days of request submission.
1309	<b>3.4.5.2 Configuration Management (CM) - Arising Work Activities</b>
275	<b>3.4.5.2.1 Configuration Audits</b>
207	The Contractor shall identify, schedule, support and conduct configuration audits. The Contractor shall produce a set of audit procedures, in Contractor format, for all Functional Configuration Audits (FCA) and Physical Configuration Audits (PCA) to be conducted. These procedures shall be included in a task proposal. As task deliverables, the Contractor shall produce a CM Audit Agenda and a CM Audit Report for each FCA and PCA conducted. As a minimum, each of these shall be conducted once annually.
1310	<b>3.4.5.2.2 TDP - Third Party</b>
203	The Contractor shall incorporate Canada-developed SMP Equipment TDP changes made by Canada or third parties, into the TDP. The changes shall be implemented through a change implementation process intended to process the change for incorporation into the TDP. The Contractor need not to verify the validity, functionality or durability of new design nor submit an ECP.
1364	<b>3.4.6 Obsolescence Management</b>
156	<b>3.4.6.1 Obsolescence Management - Core Work Activities</b>

ID	SOW - In Service Support Requirements
528	<b>3.4.6.1.1 Obsolescence Management Support</b>
209	The Contractor shall provide Obsolescence Management Support, in a proactive manner, for the SMP Equipment.
1312	The Contractor shall identify alternative sources for the replacement form, fit and functional components for the SMP Equipment.
530	<b>3.4.6.1.2 Obsolescence Management Report</b>
610	The Contractor shall prepare and submit an Obsolescence Management Report IAW CDRL SMP-ISS-026 / DID SMP-ISS-026 that describes the obsolescence management work expected to arise in the next five year window.
1311	<b>3.4.6.2 Obsolescence Management - Arising Work Activities</b>
609	The Contractor shall implement an Obsolescence Management (OM) solution as directed by the TA.
1984	<b>3.5 Environmental Health And Safety (EHS) Management</b>
2094	<b>3.5.1 EHS Management -Core Work</b>
1985	<b>3.5.2 General</b>
2135	The Contractor shall continue with EHS management processes, as established during the Acquisition Contract. This will begin upon completion of the Acquisition Contract.
1996	<b>3.5.3 Environmental Health and Safety Impact Report (EHSIR)</b>
1997	The Contractor shall modify and update the EHSIR IAW CDRL SMP-ISS-034 / DID SMP-ISS-034 identifying the changes made to the EHSIR provided under the Acquisition Contract and detailing deviation of the EHS impact of the Vehicle, APS, and Trailer during all life cycle phases, including engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal.
2097	<b>3.5.4 Contractor Capability and Facility Survey (CCFS)</b>
2098	The Contractor shall modify and update the CCFS IAW CDRL SMP-ISS-035/ DID SMP-ISS-035 identifying the changes made to the CCFS provided under the Acquisition Contract and whenever a new major subcontractor is required to do the work during all life cycle phases. Major subcontractor is a subcontractor that is valued \$25M CDN or more.
2095	<b>3.5.5 EHS Management -Arising Work</b>
2096	No Arising Work has been identified at this time.
1463	<b>3.6 Electronic Information Environment (EIE)</b>
1521	<b>3.6.1 EIE - Core Work Activities</b>
1470	<b>3.6.1.1 Scope</b>



ID	SOW - In Service Support Requirements
1514	The Contractor shall provide and maintain an EIE with capability to sort, query, filter and report throughout the duration of the Contract. The EIE Specification (Appendix BE) defines and specifies the minimum EIE deemed necessary to provide the ability to share, control, deliver, secure, and manage all of the life cycle and other data electronically while ensuring that the respective accountabilities and responsibilities of Canada and the Contractor are maintained.
2227	The Contractor shall not transmit classified information via EIE. Access to Controlled Goods information on EIE must only be accessible to authorized users and must be properly identified as containing controlled technology.
1471	<b>3.6.1.2 EIE Plan</b>
1472	The Contractor shall prepare, deliver and implement the EIE Plan IAW CDRL SMP-ISS-028 / DID SMP-ISS-028, once approved.
1832	<b>3.6.1.3 Network Security</b>
1831	The Contractor shall comply with Operational Security Standard: Management of Information Technology Security (MITS) (reference can be found at the website <a href="http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=12328">http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=12328</a> ) and Information Technology Security Guidance (ITSG-22): Baseline Security Requirements for Network Security Zones in the Government of Canada (reference can be found at <a href="http://www.cse-cst.gc.ca/its-sti/publications/itsg-csti/index-eng.html">http://www.cse-cst.gc.ca/its-sti/publications/itsg-csti/index-eng.html</a> ) .
2182	The Contractor shall comply with the Royal Canadian Mounted Police (RCMP) Technical Security Standard for Information Technology (TSSIT) dated 1997 and DND Operational Security Standard for Information Systems A-SJ-100-002/AS-001 for all Contractor-provided Information Systems that connect to DND Information systems or process and/or store classified and/or designated DND/CF data.
2183	The Contractor shall comply with the Canadian Security Establishment (CSE) Information Technology Security Guidance publication ITSG-06 - Clearing and Declassifying Electronic Data Storage Devices for all magnetic storage media provided by the Contractor which become Canada property, and for all magnetic storage media that are controlled by the Contractor that have or will have Canada-owned data on them; (Reference available at <a href="http://www.cse-cst.gc.ca/its-sti/publications/itsg-csti/index-eng.html">http://www.cse-cst.gc.ca/its-sti/publications/itsg-csti/index-eng.html</a> ).
2149	<b>3.6.1.4 EIE Protocol</b>
2150	The Contractor shall satisfy secure HTTP protocols to exchange information in near real-time and periodic manners.
1484	<b>3.6.1.5 User Accounts</b>
1485	The Contractor shall provide and maintain user account management services to establish and administer user accounts for the EIE.
1473	<b>3.6.1.6 EIE Requirements</b>
1477	<b>3.6.1.6.1 Initial Functionality</b>
1478	The Contractor shall provide and maintain, no later than six MACA, the following functionality in accordance with Appendix BE of this SOW: <ul style="list-style-type: none"> <li>a. General Features;</li> <li>b. Contractual Data Deliverables; and</li> </ul>

ID	SOW - In Service Support Requirements
	c. Project Management Control System.
1479	<b>3.6.1.6.2 Intermediate Functionality</b>
1480	The Contractor shall provide and maintain, no later than eight MACA, the following functionality in accordance with the EIE Specification: <ul style="list-style-type: none"> <li>a. Support to Training; and</li> <li>b. Support to TDP.</li> </ul>
1482	<b>3.6.1.6.3 Final Functionality</b>
1483	The Contractor shall provide and maintain all other functionality specified in the EIE Specification, no later than three months before the delivery of the first Vehicle, APS or Trailer.
1711	<b>3.6.1.7 EIE Reviews</b>
1712	The Contractor shall conduct EIE Reviews as detailed in the EIE Plan and herein, or as requested by the TA, and shall conduct the meetings at the same time as ISSMT Meetings.
1713	<b>3.6.1.7.1 EIE Preliminary Review (PR)</b>
1714	The Contractor shall conduct an EIE Preliminary Review (PR), as indicated in the EIE Plan, within 2 months after the Contract award. The EIE PR shall be structured to provide guidance to the TA on determining the adequacy of the Contractor maintained and controlled top-level documentation for EIE.
1715	<b>3.6.1.7.2 EIE Final Review (FR)</b>
1716	The Contractor shall conduct an EIE Final Review (FR), as indicated in the EIE Plan, within 75 days after the EIE PR. The EIE FR shall be structured to provide the TA with a comprehensive and detailed understanding of the EIE.
1717	<b>3.6.1.8 EIE Compliance Testing and Evaluation</b>
1718	The Contractor shall conduct compliance testing and evaluation to ensure all EIE requirements are met and to ensure product quality assurance.
1721	<b>3.6.1.9 Canada Conducted EIE Testing and Evaluation</b>
1722	Canada will conduct testing of EIE requirements upon each functionality submission: Initial, Intermediate and Final. The test and evaluation will consist of using the EIE functionalities IAW ISS SOW and Appendix BE, over 2 week periods, to verify EIE compliance.
1725	The Contractor shall provide technical support to the user through the testing of the EIE.
1723	<b>3.6.1.10 EIE Functionality Acceptance</b>
1724	Final EIE functionality acceptance will be provided to the Contractor upon the successful completion of the compliance testing and evaluation program and the Canada conducted testing and evaluation.
1522	<b>3.6.2 EIE - Arising Work Activities</b>
1709	The Contractor shall provide direct data exchange between the DND Information System and the Contractor EIE, including but not limited, to the following systems:

ID	SOW - In Service Support Requirements
	<ul style="list-style-type: none"><li>a. Supply Support;</li><li>b. Maintenance Support;</li><li>c. Technical Problem Management System;</li><li>d. IETM; and</li><li>e. Configuration Management.</li></ul>
2224	<b>3.6.2.1 Security Requirements for the Use of DND Information System</b>
2225	The Contractor shall agree and conform to the Certification and Accreditation requirements of installing DWAN at the Contractor or Subcontractor facilities which includes, but is not limited to, conducting a physical site survey and arranging for segregated and secure enclosures for DWAN workstations.
2226	The Contractor shall agree to implement any constraints required by the result of the site survey for the entire duration of the contract.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex B

STATEMENT OF WORK

APPENDIX BA – LIST OF REFERENCES, GLOSSARY AND ABBREVIATIONS

## ***1. Applicable Documents, Standards and Definitions / Documents applicable, norms and definitions***

The following documents, standards and definitions form part of the SOW to the extent specified in the individual Annexes, Appendices and Attachments. Unless otherwise stated in the contract, the latest dates of issue or amendment on the Release Date of the RFP shall be those in effect. Wherever a specific paragraph of a document is referenced as part of a requirement, all subparagraphs of the referenced paragraph shall apply, unless otherwise indicated herein.

### ***1.1 Canadian Forces Technical Orders and Manuals***

<b>Document Number</b>	<b>Title</b>
A-EN-007-000/FP-001	DND Environmental Assessment Manual
A-LM-007-014/AG-001	Canadian Forces Supply Manual
A-LM-184-001/JS-001	Special Instructions for Repair and Overhaul Contractors
A-IM-100-000/AG-001	Certification and Accreditation Guide
A-SJ-100-002/AS-001	DND Operational Security Standard for Information Systems
B-GL-342-001/FP-000	Canadian Forces Land Equipment Maintenance Systems (LEMS)
C-02-006-002/AG-000	Information Marking on Canadian Forces Equipment
C-02-015-001/AG-000	Policy Procedures and Guidelines, unsatisfactory Condition Reporting
D-01-100-215/SF-000	Preparation of Material Change Notices (MCN) for Canadian Forces Equipment
D-02-002-001/SG-001	Canadian Forces Standard Identification Marking of Canadian Military Property
D-84-001-007/SF-001	Specification for General Purpose Shipping Container Electronic Assemblies
D-LM-008-001/SF-001	Method of Packaging
D-LM-008-002/SF-001	Marking for Shipment and Storage
D-LM-008-011/SF-001	Preparation and Use of Packaging Requirements Code
D-LM-008-015/SF000	Packaging Specifications for Piezoelectric Crystals
D-LM-008-026/SF-001	Packaging of Preformed Packings, Gaskets or Seals ( Rubber Natural/Synthetic, Cork, Asbestos or Leather)
D-LM-008-030/SF-001	Specification for the Packaging of Hose, Rubber, Plastic, Fabric or Metal (Including Tubing) and Fittings, Nozzles and Strainers
D-LM-008-035/SF-001	Specification for Electrostatic Discharge Protective Packaging - Electronic Parts Assemblies and Equipment
D-LM-008-036/SF-000	Department of National Defence Minimum Requirements for Manufacturer's Standard Pack
D-LM-008-037/SF-000	Packaging of Bearings, Antifriction (Other than Instrument Precision Bearings)

### ***1.2 US Military Standards/Handbooks/Drawings***

<b>Document Number</b>	<b>Title</b>
MIL-HDBK-338B	Electronic Reliability Design Handbook
MIL-STD-1388-2B	DOD Requirements for a Logistic Support Analysis Record
MIL-STD-40051-1	Department of Defense Standard Practice: Preparation of Digital Technical Information for Interactive Electronic Technical Manuals (IETMs)
MIL-STD-470	Maintainability Program for Systems and Equipment
MIL-STD 471	Maintainability Verification/Demonstration/Evaluation

## **1.2 US Military Standards/Handbooks/Drawings**

<b>Document Number</b>	<b>Title</b>
MIL-STD-973	Configuration Management
MIL-PRF-49506	Performance Specification Logistics Management Information
MIL-STD-1472F	Department of Defense Design Criteria Standard: Human Engineering

## **1.3 UK Defence Standards**

<b>Document Number</b>	<b>Title</b>
UK DEF STAN 00-60	Integrated Logistic Support, Logistic Support Analysis and Logistic Support Analysis Record

## **1.4 Not Used**

<b>Document Number</b>	<b>Title</b>

## **1.5 Not Used**

<b>Document Number</b>	<b>Title</b>

## **1.6 Other Documents**

<b>Document Number</b>	<b>Title</b>
ANSI EIA-649-A	National Consensus Standard for Configuration Management
GEIA-STD-0007	Logistic Product Data

## **1.7 DEFINITIONS**

<b>Term</b>	<b>Nomenclature</b>	<b>Definition</b>
EFCC	Equipment Fielding Coordination Centre	Equipment Fielding Coordination Centres (EFCC) are established as a necessary control mechanism to ensure the efficient and effective handover of vehicles and equipment. The EFCC's also serve as a focal point for all Army approved capability releases.
STTE	Special Tools and Test Equipment	Any and all tools, test equipment, handling equipment and fixtures required for servicing, handling, lifting, slinging, transporting, repair, adjustment, calibration, testing and other maintenance of the Vehicle, the Armour Protection System (APS), and trailer at integral, close or general support organizations that are not currently contained in a DND Vehicle Technician toolbox.
LRU	Line Replaceable Unit	An LRU is an essential support item which is removed and replaced at the field level to restore the end item to an operational ready condition. Conversely, a non-LRU is a part, component, or assembly used in the repair of an LRU, when the LRU has failed and has been removed from the end item for repair.
RP	Repair Part	Material capable of separate supply and replacement which is required for the maintenance, overhaul, or repair of a system, equipment, or end item. This definition does not include support equipment, but does include repair parts for support equipment.

## 1.8 Acronyms

Acronym	Definition
AAS	Accountable Advance Spares
ADC	Automated Data Capture
ADM (Mat)	Assistant Deputy Minister (Materiel)
AIL	Action Items Log
AIT	Automated Identification Technology
ANNLY	Annually
AOP	Annual Operating Plan
APS	Armour Protection System
ARET	Accelerated Reduction/Elimination of Toxics
ASAT	Army System Approach to Training
ASGEN	As Generated
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc
ASME	American Society of Mechanical Engineers
ASREQ	As Required
ASTM	American Society for Testing and Materials
AWR	Additional Work Requirements (Requests)
BER	Beyond Economic Repair
BOP	Basis of Payment
CA	Contract Authority
CAD/CAM	Computer-Aided Design/Computer-Aided Manufacturing
CAGE	Commercial and Government Entity
CAPM	Certified Associate in Project Management
C&A	Certification and Accreditation
CBIL	Consumable and Bulk Item List
CBSA	Canada Border Services Agency
CCFS	Contractor Capability and Facility Survey
CCP	Contract Change Proposal
CCV	Canadian Content Value
CDN	Canadian
CDRL	Contract Data Requirements List
CET	Certified Engineering Technologist
CEPA	Canadian Environmental Protection Act
CF	Canadian Forces
CFITES	Canadian Forces Individual Training and Education System
CI	Configuration Item
CIL	Configuration Item List
CF	Canadian Forces
CFM	Contractor Furnished Materiel
CFR	Canadian Forces Registration
CFSEME	Canadian Forces School of Electrical Mechanical Engineering
CFSS	Canadian Forces Supply System
CFSSR	Consolidated Field Support Services Report
CFTO	Canadian Forces Technical Order
CGCS	Canadian Government Cataloguing System
CHI	Contractor-held Inventory
CIL	Candidate Item List/Configuration Item List

## 1.8 Acronyms

Acronym	Definition
CIS	Contract Issue Spares
CLA	Contract Loan Account
CLIN	Contract Line Item Number
CM	Configuration Management
CMO	Contractor Management Office
CMP	Configuration Management Plan
COTS	Commercial Off-the-Shelf
CPL	Certified Professional Logistician
CPM	Critical Path Method
CPMP	Contractor Performance Measurement Plan
CPRB	Contract Performance Review Board
CPS	Composite Performance Score
CSA	Configuration Status Accounting
CSE	Canadian Security Establishment
CT	Conversion Training
CTAT	Controlled Technology Access Transfer
CY Status	Current Year Status
DACA	Days After Contract Award
DAOD	Defence Administrative Orders and Directives
DART	Disaster Assistance Response Team
DAT	Directorate of Army Training
DCG	Document Control Group
DED	Data Element Definitions
DGLEPM	Director General Land Equipment Program Management
DI	Data Item
DID	Data Item Description
DMPP	Director Materiel Policies and Procedures
DND	Department of National Defence
DoD	Department of Defense (US)
DR	Discrepancy Report
DRMIS	Defence Resource Management Information System
DSAL	Disposal, Sales, Artifacts and Loans
DSCO	Director Cataloguing and Initial Provisioning
DWAN	Defence Wide Area Network
ECO	Engineering Change Orders
ECP	Engineering Change Proposal
ED&D	Engineering Design and Development
EFCC	Equipment Fielding Coordination Centre
EHS	Environment Health and Safety
EHSIR	Environment Health and Safety Impact Report
EHSMS	Environment Health and Safety Management System
EIE	Electronic Information Environment
ELE	Estimated Life Expectancy
EMO	Equipment Movement Order
EPM	Equipment Program Management
EMT	Equipment Management Team
EST	Eastern Standard Time



## 1.8 Acronyms

Acronym	Definition
EPA	Economic Price Adjustment
EPM	Equipment Program Management
EVMS	Earned Value Management System
EWG	Engineering Working Group
FC	Free Carrier
FCA	Functional Configuration Audit
FDA	Final Design Acceptance
FIFO	First In First Out
FMECA	Failure Modes, Effects and Criticality Analysis
FR	Final Review
FRCST CY	Forecast Current Year
FRCST NY	Forecast New Year
FSR	Field Service Representatives
FT	Familiarization Training
FY	Fiscal Year
FYTD	Fiscal Year To Date
GFD	Government Furnished Data
GFE	Government Furnished Equipment
GFI	Government Furnished Information
GFOS	Government Furnished Overhaul Spares
GEIA	Government Electronics and Information Technology Association
GIAI	Global Individual Asset Number
GIDEP	Government-Industry Data Exchange Program
GSM	Government Supplied Material
GST	Goods and Services Tax
HC	Hard Copy
HCI	Human computer interface
HFE	Human Factors Engineering
HLVW	Heavy Logistic Vehicle Wheeled
HR	Human Resources
HRI	Human-Readable Interpretation
HST	Harmonized Sales Tax
IAC	Issuing Agency Code
IAW	In Accordance With
IC	Industry Canada
ICT	Initial Cadre Training
IEEE	Institute of Electrical and Electronics Engineers
IETM	Interactive Electronic Technical Manual
ILS	Integrated Logistic Support
ILSM	ILS Manager
ILSMT	Integrated Logistic Support Management Team
ILSP	Integrated Logistic Support Plan
IM	Information Management
IP	Initial Provisioning
IPC	Initial Provisioning Conference
IRB	Industrial and Regional Benefits
ISL	Interim Spares List

## 1.8 Acronyms

Acronym	Definition
ISP	Integrated Support Plan
ISS	In-Service Support
ISSC	In-Service Support Contract
ISSMT	In-Service Support Management Team
ISSP	In-Service Support Plan
IT	Information Technology
ITAR	International Traffic in Arms Regulations
ITSP	Integrated Test and Support Plan
ITSG	Information Technology Security Guidance
LCC	Life Cycle Cost
LCMM	Life Cycle Materiel Manager
LEMS	Land Equipment Management System
LEP	Life extension Program
LHS	Load Handling System
LIFO	Last In First Out
LORA	Level of Repair Analysis
LRUs	Line Replaceable Units
LSA	Logistic Support Analysis
LSAR	Logistic Support Analysis Record
LTP	Long Term Plan
MACA	Months After Contract Award
MA&S	Materiel Acquisition and Support
MASIS	Materiel Acquisition and Support Information System
MCN	Material Change Notice
MITS	Management of Information Technology Security
MKBF	Mean Time Between Failure
MKBPM	Mean Kilometres Before PM Task needs to be performed
MOC	Military Occupation Code
MMBPM	Mean Months Before PM task needs to be performed
MNTHY	Monthly
MOTS	Military Off-The Shelf
MPS	Master Project Schedule
MR	Major Repair
MRC	Maximum Repair Cost
MRP	Major Repair Program
MRPR	Major Repair Program Report
MSDS	Material Safety Data Sheets
MSI	Maintenance Significant Items
MSVS	Medium Support Vehicle System
NATO	North Atlantic Treaty Organization
NCR	National Capital Region
NDHQ	National Defence Headquarters
NDI	Non Destructive Inspection
NDQAR	National Defence Quality Assurance Representative
NDSI	National Defence Security Instructions
NOR	Notice of Revision
NPRI	National Pollutant Release Inventory

## 1.8 Acronyms

Acronym	Definition
NSCM	NATO Supply Code for Manufacturers
NSN	NATO Stock Number
OACETT	The Ontario Association of Certified Engineering Technicians and Technologists.
OBS	Organisational Breakdown Structure
OEM	Original Equipment Manufacturer
OGD	Other Government Departments
OJT	On the Job Training
OM	Obsolescence Management
OMP	Obsolescence Management Plan
ONE/R	One Time, Revisions as Required
OSS	Occupation Specialty Specification
PB	Performance Based
PBM	Performance Based Metrics
PCA	Physical Configuration Audit
PCB	Polychlorinated Biphenyls
PEL	Performance Exception List
PERT	Program Evaluation and Review Techniques
PFC	Pre-Facilitated Contract
PfM	Performance Management
PfMP	Performance Management Plan
PHST	Packaging, Handling, Storage and Transportation
PM	Project Management
PMBOK	Project Management Body of Knowledge
PMCS	Project Management Control System
PMI	Project Management Institute
PMO	Project Management Office
PMP	Project Management Professional/Project Management Plans
PN	Part Number
POC	Points of Contact
PPB	Provisioning Parts Breakdown
PR	Preliminary Review
PRN	Progress Review Meeting
PRS	Permissive Repair Schedule
PRR	Priority Repair Requests
PSCN	Permanent System Control Number
PWGSC	Public Works and Government Services Canada
QAP	Quality Assurance Plan
QAR	Quality Assurance Representative
QC	Quality Control
QCI	Quality Conformance Inspection
QL5	Qualification Level 5 (Journeyman Technician)
QMS	Quality Management System
QP	Quality Plan
QS	Qualification Standard
QTY	Quantity
QRTLY	Quarterly
R&O	Repair and Overhaul

## 1.8 Acronyms

Acronym	Definition
RA	Requisitioning Authority
RAM	Resource Allocation Matrix
RAM	Reliability, Availability and Maintainability
R/ASR	Revisions as Required
RCMP	Royal Canadian Mounted Police
RFD	Request for Deviation
RFP	Request for Proposal
RFW	Request for Waiver
RFW/D	Request For Waiver/Deviation
RIMD	Risk and Issues Management Database
RMA	Repairable Material Account
RMR	Repairable Material Request
ROCIL	Repair and Overhaul Candidate List
RPC	Repair Priority Code
RTAR	Reliability/Trend Analysis Reports
SACC	Standard Acquisition Clauses and Conditions
SAD	System Architectural Design
SAE	Society of Automotive Engineers
SC	Stock Code
SC	Soft Copy
SCN	Specification Change Notices
SE	Support Equipment
SEMI	Semi-annually (every 6 months)
SEMP	System Engineering Management Plan
SEMT	System Engineering Management Team
SLO & CG	Service Level Offering and Connection Guide
SME	Subject Matter Expert
SMP	Standard Military Pattern
SNAPS	Selection Notice and Priority Summary
SNOM	Selection Notice Observation Message
SOC	Statement of Compliance
SOLE	Society of Logistic Engineers
SOPs	Standard Operating Procedures
SOR	Statement of Requirements
SOS	Statement of Sensitivity
SOW	Statement of Work
SPT/STE	Special Production Tooling/Special Test Equipment
SPTD	Supplementary Provisioning Technical Data
SRCL	Security Requirement Check List
SST	Steady State Training
STANAG	NATO Standardization Agreement
STTE	Special Tools and Test Equipment
TA	Technical Authority
TAT	Turn Around Time
TD	Technical Documentation
TDP	Technical Data Package
TDWG	Training Development Working Group

## 1.8 Acronyms

Acronym	Definition
TM	Technical Manual
TNA	Training Needs Analysis
TP	Technical Problem
TPM	Technical Problem Management
TPMS	Technical Problem Management System
TTP	Training Program Plan
TPTAT	Technical Problem Turnaround Time
TSR	Technical Services Representatives
TSSIT	Technical Security Standard for Information Technology
UCR	Unsatisfactory Condition Report
UOR	Urgent Operational Requirements
VEC	Valued Ecosystem Components
VIN	Vehicle Identification Number
VMO	Vehicle Movement Order
WBS	Work Breakdown Structure
WHMIS	Workplace Hazardous Materials Information System
WKLY	Weekly
YMF	Yearly Management Fee

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 8 - Resulting Contract - ISS

Annex B

STATEMENT OF WORK

APPENDIX BB – PERFORMANCE METRICS

ID	Performance Metrics
377	<b>1 Performance Management</b>
690	<p>The Contractor shall maintain a performance measurement capability throughout the duration of this Contract, as stated in the Project Management Service section of the ISS SOW. This appendix provides the expected performance levels and the performance metrics framework that the Contractor and Canada will use for the incentive and disincentive models.</p> <p>The performance levels, metrics and incentive and disincentive models described herein will be used in the measurement of contractor performance. Initial discussions regarding the Performance Management will take place on or before the year three Annual Operating Plan meeting. The Contractor is encouraged on or before this meeting and throughout the Contract to recommend constructive changes in the performance measurement should it motivate higher performance levels or improve the performance incentives/disincentive determination process. Canada may consider the recommended changes and if deemed acceptable, approve them.</p> <p>The Contractor performance will be assessed for the first time during year four of the Contract, without any associated incentive payments or disincentive credits; this will be a dry run to ensure that the models provide a sufficient basis for evaluation.</p> <p>The Contractor performance will be measured during year five of the Contract and the incentive award for that year will be the award of an option period of up to five years for the In Service Support.</p> <p>Canada intends to use the measurements of the Contractor performance annually starting at Year six which will result in associated annual incentive payments or disincentive credits. In addition, performance measurements of any given year in the current option period will be used in the assessment of Contractor performance in the award of future option periods.</p>
221	<b>1.1 Annual Performance Assessment</b>
222	The Contractor's overall performance will be rated at the Annual Performance Review Meeting in accordance with Annex B which will be held in conjunction with the AOP. The record of decision of this meeting will outline the incentive / disincentive payment or credit, if any. That record is considered to be the Annual Performance Assessment Report.
686	<b>1.2 Performance Reporting</b>
687	The Contractor shall start reporting on its performance starting on the 1st of April in year 4, providing quarterly reports as per the SOW.
402	<b>1.3 Collection, Processing and Reporting of Metric Values</b>
403	The Contractor shall, to the extent possible, use the EIE and the Contractor's supply management system to supply and implement the necessary means to collect performance measurement data, to process the data, and to report the metric values achieved.
547	<b>1.4 Composite Performance Score</b>
548	<p>A single Composite Performance Score (CPS) will represent Contractor performance relative to the performance standards established in Year three. Performance above standard, indicated by a positive CPS, will result in performance incentive; performance below standard, indicated by a negative CPS, will result in a performance disincentive.</p> <p><math display="block">CPS = W1 \times S1 + W2 \times S2 + W3 \times S3 + W4 \times S4 + W5 \times S5</math></p>

ID	Performance Metrics
	Where $W_i$ are weights assigned to each Performance Metric (as detailed in the AOP) expressed in percentage and $S_i$ are the scores achieved for each performance metric, described in sections 2 to 6 below.  The $S_i$ and CPS shall be rounded to two decimal places.
674	In situations when a performance metric is not reportable during an evaluation period, the score for that metric will be 0.
549	The weights to be used to compute the CPS will initially be:  W1 = 5% Project Management Responsiveness (PBM 1) W2 = 25% Technical Problem Management (PBM 2) W3 = 30% Spares Delivery Management (PBM 3) W4 = 25% R&O - Free Flow Delivery Management (PBM 4) W5 = 15% Major Repair Program (PBM 5)
670	Each year as an input to AOP, Canada alone will have the right to select and amend performance metric weightings in order to focus performance improvement in areas that are beneficial or of significant interest to Canada.
553	<b>1.4.1 Example of Calculating Composite Performance Score (CPS)</b>
554	Assume that the individual performance scores were: S1 = 0.28 S2 = 0.07 S3 = -0.08 S4 = 0.64 S5 = 0.30
563	$CPS = W1 \times S1 + W2 \times S2 + W3 \times S3 + W4 \times S4 + W5 \times S5 = (0.05 \times 0.28) + (0.25 \times 0.07) + (0.30 \times -0.08) + (0.25 \times 0.64) + (0.15 \times 0.30) = 0.26$
691	<b>1.4.2 Maximum Incentive and Maximum Disincentive</b>
692	The CPS score achieved will determine the incentive or disincentive result for the Contractor. The Maximum Incentive or Disincentive is equal to 6% of the Yearly Management Fee. The CPS achieved represents the percentage of the Maximum Incentive or Disincentive. Therefore, for example purposes only, with a CPS score of 0.26, assuming the Yearly Management Fee is \$1 Million Dollars, the Incentive would be: $CPS \times 6\% \times YMF\$ = 0.26 \times 0.06 \times \$1M = \$15,600$ . Should the CPS be a negative value, it would result in a Disincentive valued at $CPS \times 6\% \times YMF\$$ .  The Yearly Management Fee is calculated as 12 x Monthly Management Fee as detailed in the Basis of Payment.
507	<b>1.4.3 Performance Management Governance Process</b>
509	The contract governance process consists of the following fundamental steps:  a. The Contractor is responsible for the collection of performance data, their conversion into performance information and submitting that information through performance reports to Canada. Performance reports are to be accessible to Canada on EIE and will be subject to audit and verification; and b. Canada is responsible for acceptance of performance reports and determination of the awarding of incentives or disincentives.
508	Validation of the Contractor's performance will be responsibility of Canada. Canada will: a. Review, confirm and validate the Contractor's performance reports and award incentives and disincentives as applicable; and b. Request further performance information and/or clarification from the Contractor, as required.
511	Canada will establish a Contract Performance Review Board (CPRB). The CPRB will be co-chaired by the TA



ID	Performance Metrics
	and CA. The TA will determine the composition of the CPRB, which will have both Canada and Contractor representation. The CPRB chairpersons may augment the CPRB with ad-hoc members with appropriate backgrounds or responsibilities.
510	Once a year starting at Year 4 of the Contract, during the Annual Performance Review Meeting, the CPRB will: <ul style="list-style-type: none"> <li>a. Review recommendations for the year under review;</li> <li>b. Make the final decision on contract incentives or disincentives for the year under review;</li> <li>c. Review recommended corrective actions;</li> <li>d. Review recommendations for changes to the performance metrics, as required. Any new measure shall be approved by both the Contractor and Canada prior to implementation; and</li> <li>e. Provide adjustments to measure weights (Wi) for CPS calculation over the next fiscal year.</li> </ul>
668	<b>1.4.4 Changes to the Performance Metrics</b>
669	Changes to the performance metrics are expected to encourage continuously satisfactory performance on the part of the Contractor. No changes will be made within an assessment period and any changes will only be effective upon commencement of the next assessment period.
672	Any change to the performance metrics, other than performance metric weights, will require mutual agreement between Canada and the Contractor.
673	Canada will provide, in its input to the AOP, the selected performance metric weightings for the next year.
693	<b>1.4.5 Principles of Performance Based Metrics</b>
694	PBMs are established on the following principles: <ul style="list-style-type: none"> <li>a. Disincentives and incentives motivate the right performance;</li> <li>b. The opportunity for incentive should be challenging;</li> <li>c. No incentive or disincentive for meeting a commitment; and</li> <li>d. PBM management should not be administratively difficult.</li> </ul>
695	<b>1.4.6 Proposed Performance Metrics</b>
696	The Contractor's overall performance will be measured using quantitative outcome criteria. The guidance for measurement is outlined below.
697	The Contractor will be required to achieve the performance targets specified in the following PBM: <ul style="list-style-type: none"> <li>a. Project Management Responsiveness;</li> <li>b. Technical Problem Management;</li> <li>c. Spares Delivery Management;</li> <li>d. Repair and Overhaul (R&amp;O) Delivery Management; and</li> <li>e. Major Repair Program Performance.</li> </ul>
190	<b>2 Project Management Performance (PBM 1)</b>
698	The incentive and disincentive model in the following paragraphs (under Section 2 - PBM 1) will be used by the Contractor and Canada for PBM 1.
196	<b>2.1 Performance Scoring</b>
197	<b>2.1.1 Source of Data</b>
198	Canada and the Contractor will collect data from the Project Management Survey located at Attachment BB-1, that will be completed by both Canada and the Contractor on a quarterly basis. Canada will provide its consolidated survey response to the Contractor by the end of following month. The purpose in having the Contractor fill out the survey is to do a self assessment and to readily identify any performance gaps by directly

ID	Performance Metrics
	comparing Canada's performance perspective with the Contractor's.
199	<b>2.1.2 Collection of Data and Deliverables</b>
200	The Contractor shall fill out the Project Management Survey quarterly and present it in the Services Status Report IAW CDRL SMP-ISS-011 / DID SMP-ISS-011.
201	<b>2.1.3 Acceptable Performance Level</b>
202	Canada will provide an explanation for any survey activities scored "Not Met". This will allow the Contractor to identify any differences in performance expectations, with the objective that both parties should arrive at the same quarterly assessment of the Contractor's management performance. As mutually agreed, any scoring errors will be corrected prior to the Contractor formally submitting the Services Status Report.
389	The acceptable performance level is proposed in the Incentive/Disincentive Model shown below.
203	<b>2.1.4 Incentive/Disincentive Model</b>
550	The annual average survey score shall be computed based on the results of all four quarterly surveys.
539	<p>The score for this metric (S1) shall range linearly between -1 (for an annual average survey score of 50% or less) and +1 (for an annual average survey score of 100%).</p> <p>The score for this metric (S1) shall range linearly between -1 and +1, therefore any score achieved above 1 will be rounded down to equal 1; and score achieved below -1 will be rounded up to equal -1. The score for S1 shall be computed according to the following formula:</p> $S1 = 4 \times (\text{Annual Average Survey Score}) - 3$ <p>where Annual Average Survey Score is the average of all scores for the surveys submitted during the year in review.</p>
512	If the Contractor is "Not Met" for the same activity from the survey, for three consecutive quarters, the score will be negative one (-1) regardless of the annual average.
404	<b>3 Technical Problem Management Performance Metric (PBM 2)</b>
416	<b>3.1 Performance Scoring</b>
488	<b>3.1.1 Source of Data</b>
489	The Contractor shall use data from the Contractor's Technical Problem Management System provided by the EIE (CE) as described at Appendix BE.
490	<b>3.1.2 Collection of Data and Deliverables</b>
491	The Contractor shall collect data quarterly and present it in the Services Status Report IAW CDRL SMP-ISS-011 / DID SMP-ISS-011. The Contractor shall track, document, and record the information required. The Contractor shall calculate quarterly score and document it in the Balanced Scorecard available through the EIE.
492	<b>3.1.3 TPM Performance Tracking</b>
493	The Contractor shall track Technical Problems commencing at the first Technical Problem request initialized in the TPMS.

ID	Performance Metrics
423	<b>3.1.4 Incentive/Disincentive Model</b>
532	<p>The score for this metric (S2) shall range linearly between -1 (for a Technical Problem Turn Around Time (TPTAT) of half the Required TPTAT or less) and +1:</p> $S2 = ((RTPTAT - MTPTAT(Maj-Urg)) / (0.5 * RTPTAT)) * w1 + ((RTPTAT - MTPTAT(Maj-NUrg)) / (0.5 * RTPTAT)) * w2 + ((RTPTAT - MTPTAT(Min)) / (0.5 * RTPTAT)) * w3$ <p>where MTPTAT is the Mean Technical Problem Turn Around Time as measured by the Contractor;</p> $\text{where } MTPTAT(Maj-Urg) = \frac{\sum_{i=1}^N TPTAT(Maj-Urg)_i}{N}, \text{ where } N = \text{the number of closed TPs within a specified measurement period that are classified as being Major-Urgent;}$ $\text{where } MTPTAT(Maj-NUrg) = \frac{\sum_{j=1}^M TPTAT(Maj-NUrg)_j}{M}, \text{ where } M = \text{the number of closed TPs within a specified measurement period that are classified as being Major-NonUrgent;}$ $\text{where } MTPTAT(Min) = \frac{\sum_{k=1}^P TPTAT(Min)_k}{P}, \text{ where } P = \text{the number of closed TPs within a specified measurement period that are classified as being Minor;}$ <p>where RTPTAT is the Required Technical Problem Turn Around Time as per Annex B.</p> <p>and where w1, w2, and w3 are the assigned weights for each classification of TP such that:</p> <p>w1=0.40 (for Maj-Urg); w2=0.35 (for Maj-NUrg); w3=0.25 (for Min).</p>
524	<b>3.1.5 Example of Calculation for S2 score for Technical Problem Management</b>
525	<p>Example scenario. Let's assume that we had 2 Major Urgent technical problems during the evaluation period: TAT for the first one, referred to as "TPTAT (Maj-Urg)1" was 7 days; and</p> <p><b>TAT for the second one, referred to as "TPTAT(Maj-Urg)2" was 5 days.</b></p>
533	<p>MTPTAT(Maj-Urg); the Mean Technical Problem Turn Around Time for Major Urgent Technical Problems is</p> $= ("TPTAT(Maj-Urg)1" + "TPTAT(Maj-Urg)2") / 2$ $= (7+5) / 2$ $= 12 / 2$ $= 6$

ID	Performance Metrics
	<b>Therefore, the <u>MTPTAT</u>(Maj-Urg) is 6.</b>
526	<p>Let's assume that we have 4 Major Non Urgent Technical problems during the same evaluation quarter.</p> <p>TPTAT(Maj-NUrg)1 was 20 days; TPTAT(Maj-NUrg)2 was 40 days; TPTAT(Maj-NUrg)3 was 25 days; and</p> <p><b>TPTAT(Maj-NUrg)4 was 31 days.</b></p>
527	<p>The Mean technical Problem TAT for Major Non-Urgent problems is therefore:</p> <p>MTPTAT(Maj-NUrg) = (TPTAT(Maj-NUrg)1 + TPTAT(Maj-NUrg)2 + TPTAT(Maj-NUrg)3 + TPTAT(Maj-NUrg)4) / 4 =(20+40+25+31) / 4 =29</p> <p><b>Therefore the <u>MTPTAT</u>(Maj-NUrg) is 29.</b></p>
528	<p>Let's also assume that we have 6 Minor Technical Problems:</p> <p>TPTAT(Min)1 was 10 days TPTAT(Min)2 was 13 days TPTAT(Min)3 was 14 days TPTAT(Min)4 was 11 days TPTAT(Min)5 was 15 days</p> <p><b>TPTAT(Min)6 was 12 days</b></p>
529	<p>The Mean Technical Problem TAT for Minor problems is therefore:</p> <p>MTPTAT(Min) =(TPTAT(min)1 + TPTAT(min)2 + TPTAT(min)3 + TPTAT(min)4 + TPTAT(min)5 + TPTAT(min)6) / 6 =(10+13+14+11+15+12) / 6 =75 / 6 =12.5</p> <p><b>Therefore, the <u>MTPTAT</u>(Min) is 12.5.</b></p>
530	<p>The Required Technical Problem TAT (RTPTAT) is, as per Annex B:</p> <p>RTPTAT(Maj-Urg)=7; RTPTAT(Maj-NUrg)=25;and</p>

ID	Performance Metrics
	<b>RTPTAT(Min)=30,</b>
531	<b>and given w1,w2 and w3 are assigned weights from respectively Maj Urg TP, Maj NUrg and Minor TPs, the score for S2 is therefore:</b>
534	$S2 = ((RTPTAT-MTPTAT(Maj-Urg)) / (0.5*RTPTAT))*w1$ $+ ((RTPTAT-MTPTAT(Maj-NUrg)) / (0.5*RTPTAT))*w2$ $+ ((RTPTAT-MTPTAT(Min)) / (0.5*RTPTAT))*w3$ $= ((7-6) / (0.5*7)) *0.4$ $+ ((25-29) / (0.5*25)) *0.35$ $+ ((30-12.5) / (0.5*30)) *0.25$ $= (1 / 3.5) *0.4$ $+ (-4 / 12.5) *0.35$ $+ (17.5 / 15) *0.25$ $= 0.29 * 0.4$ $+ (-0.32) * 0.35$ $+ 1.16 * 0.25$ $= 0.12 - 0.11 + 0.29$ $= 0.30$ <p><b>The score for S2, to be inserted into the calculation for CPS would therefore be 0.30.</b></p>
1	<b>4 Spares Delivery Management Performance Metrics (PBM 3)</b>
700	The incentive and disincentive model in the following paragraphs (under Section 4 - PBM 3) will be used by the Contractor and Canada for PBM 3.
3	<b>4.1 Performance Scoring</b>
11	<b>4.1.1 Source of Data</b>
12	The Contractor shall collect data from the Contractor's supply management system.
13	<b>4.1.2 Collection of Data and Deliverables</b>
14	The Contractor shall collect data quarterly and present it in the Services Status Report IAW CDRL SMP-ISS-011 / DID SMP-ISS-011.
15	<b>4.1.3 Acceptable Performance Level</b>
16	<p>The acceptable performance levels are proposed in the Incentive/Disincentive Models shown in the next paragraph. For these metrics, end time delivery is the date the delivery slip is signed by DND.</p> <p>PBM 3 itself is weighted such that S3R (replenishment) represents 30% of W3 whereas S3U (urgent) represents 70% of W3. Therefore, <math>S3 = S3R*0.30 + S3U*0.70</math>.</p>

ID	Performance Metrics			
519	<b>4.1.4 Replenishment Spare Parts (Level 1 and 2 spares)</b>			
19	<b>4.1.4.1 Incentive/Disincentive Model for Replenishment Spare Parts</b>			
230	Spares delivery will be tracked per individual line items that have an extended value of \$100 or more.			
701	<p>The score for this metric (S3R) shall range variably between -1 and +1, therefore any score achieved above 1 will be rounded down to equal 1; and score achieved below -1 will be rounded up to equal -1. The score for S3R shall be computed according to the following formula:</p> $S3R = \sum_{i=a}^n S3_i / (6\% \times YMF\$ \times W3)$ <p>-where <math>\sum_{i=a}^n S3_i</math> is the sum of associated scores for each line delivered: (S3<sub>a</sub> + S3<sub>b</sub> + S3<sub>c</sub> + ... + S3<sub>n</sub>) expressed in a dollar value;</p> <p>-where n is the number of individual lines delivered both as positive performance or negative performance;</p> <p>-where 6% is the Maximum Incentive/Disincentive Percentage; and</p> <p>-where YMF\$ is the Yearly Management Fee expressed in a dollar value, this calculated as 12 x Monthly Management Fee (as detailed in the Basis of Payment).</p> <p>The intent of this formula is to ensure that the associated scores (S3<sub>i</sub>) correspond to the percentages in the below table (within the limit imposed by the S3 range of -1 to 1).</p>			
704	The associated scores (S3 <sub>i</sub> ) for input into the overall score for this metric (S3R) will be calculated using the total of on-time delivery of individual lines for the month when the expected performance level is met or exceeded; and they will be calculated on each late delivery per individual line when the expected performance level is not met.			
702	As stated in Annex B, the standard to be achieved for all Replenishment Spare Parts deliveries is a Turn Around Time as proposed by the Contractor and approved by Canada at the Initial Provisioning Conference of the Acquisition Contract.			
703	<p>The expected performance level sees 95% of all individual lines delivered on time in every month. A positive performance in the table below indicates the expected performance level was met, or exceeded; a negative performance indicates the expected performance level was not achieved and the associated score is therefore a negative value (expressed in dollars).</p> <p>A "day" in the table below refers to a calendar day.</p>			
22	Performance Definition	Performance Level	Associated Score for input to S3R calculation (S3 <sub>i</sub> ):	
	Positive performance	<p>95% or more of individual lines are delivered on time in the first month</p> <p>-----</p> <p>95% or more of individual lines are delivered on time in the second consecutive month</p> <p>-----</p>	<p>(S3<sub>i</sub>) = 1.0% of price of the individual line for all lines delivered on-time in that month</p> <p>-----</p> <p>(S3<sub>i</sub>) = 1.5% of price of the individual line for all lines delivered on-time in that second consecutive month</p> <p>-----</p>	

ID	Performance Metrics			
		95% or more of individual lines are delivered on time in the third consecutive month or longer	(S3 <sub>i</sub> ) = 2.0% of price of the individual line for all lines delivered on-time in a month beginning at the third consecutive month and ending when the expected performance level is not achieved.	
	Negative Performance	<p>The Individual line is late by: &gt;7 days and ≤ 60 days</p> <p>-----</p> <p>The Individual line is late by: &gt; 60 days and ≤ 90 days</p> <p>-----</p> <p>The Individual line is late by: &gt; 90 days</p>	<p>(S3<sub>i</sub>) = -1.0% of price of the individual line which is late by the stated timeframe</p> <p>-----</p> <p>(S3<sub>i</sub>) = -1.5% of price of the individual line which is late by the stated timeframe</p> <p>-----</p> <p>(S3<sub>i</sub>) = -2.0% of price of the individual line which is late by the stated timeframe</p>	
542	The incentive percentages shall not increase during months with no scheduled deliveries.			
705	<b>4.1.4.2 Example of calculation for S3R score based on Replenishment Spare Parts only</b>			
706	<p>Example scenario:</p> <p>In the first 6 months of the year in review, the Contractor delivers 100 individual lines per month. Of those 100 individual lines, 96 are on time in the first month; 98 are on time in the second month; 99 are on time in the third month; 94 are on time in the fourth month, 93 are on time in the fifth month, and 94 are on time in the 6<sup>th</sup> month. For example purposes only, every individual line delivered in these six months has a price of \$1000.</p>			
707	The Contractor will therefore have exceeded the expected performance level for the first month, the second month, and the third month. S3 <sub>i</sub> will be calculated using the price of each item delivered on time, therefore the price of all 96 individual lines delivered on time in those months.			
708	For the first month, S3 <sub>i</sub> will be equal to S3 <sub>a</sub> + S3 <sub>b</sub> + S3 <sub>c</sub> + ... + S3 <sub>n</sub> where n = 96 (because there were 96 individual lines delivered on time in that month. S3 <sub>a</sub> will be equal to 1% of \$1000 (which is \$10) because the first individual line delivered in that month was priced at \$1000; S3 <sub>b</sub> will be equal to 1% of \$1000 (which is \$10) because the second individual line delivered in that month was priced at \$1000; and so on until S3 <sub>n</sub> . For this example, S3 <sub>i</sub> for the positive performance in the first month will be equal to \$960.			
709	For the second month, S3 <sub>i</sub> will be equal to S3 <sub>a</sub> + S3 <sub>b</sub> + S3 <sub>c</sub> + ... + S3 <sub>n</sub> where n = 98 (because there were 98 individual lines delivered on time in that second consecutive month. S3 <sub>a</sub> will be equal to 1.5% of \$1000 (which is \$15) because the first individual line delivered in that month was priced at \$1000; S3 <sub>b</sub> will be equal to 1.5% of \$1000 (which is \$15) because the second individual line delivered in that month was priced at \$1000; and so on until S3 <sub>n</sub> . For this example, S3 <sub>i</sub> for positive performance in the second consecutive month will be equal to \$1470.			
710	For the third month, S3 <sub>i</sub> will be equal to S3 <sub>a</sub> + S3 <sub>b</sub> + S3 <sub>c</sub> + ... + S3 <sub>n</sub> where n = 99 (because there were 99 individual lines delivered on time in that third consecutive month. S3 <sub>a</sub> will be equal to 2.0% of \$1000 (which is \$20) because the first individual line delivered in that month was priced at \$1000; S3 <sub>b</sub> will be equal to 2.0% of \$1000 (which is \$20) because the second individual line delivered in that month was priced at \$1000; and so on until S3 <sub>n</sub> . For this example, S3 <sub>i</sub> for the positive performance in the third consecutive month will be equal to \$1980.			
711	Now, for each of these months, there were some individual lines that were delivered late (all those that were not delivered on time were by default delivered late).			
712	For the first month, the S3 <sub>i</sub> of \$960 will have to be added to the amount of late individual lines for that month. Of the 4 lines that were late in the first month, 2 were late by 2 days, 1 was late by 22 days, and 1 was late by 100			

ID	Performance Metrics
	days. The associated $S3_i$ scores for negative performance are therefore: \$0 for the 2 lines that were late by 2 days, -1.0% of price (which is -\$10) for the line that was late by 22 days, and -2.0% of price (which is -\$20) for the line that was late by 100 days. This means that $S3_i = \$960 - \$0 - \$0 - \$10 - \$20 = \$930$ .
713	For the second month, the $S3_i$ of \$1470 will have to be added to the amount of late individual lines for that month. Of the 2 lines that were late in the second month, 1 was late by 2 days, and 1 was late by 22 days. The associated $S3_i$ scores for negative performance are therefore: \$0 for the line that was late by 2 days, -1.0% of price (which is -\$10) for the line that was late by 22 days. This means that $S3_i = \$1470 - \$0 - \$10 = \$1460$ .
714	For the third month, the $S3_i$ of \$1980 will have to be added to the amount of late individual lines for that month. Of the 1 line that was late in the third month, it was late by 2 days. The associated $S3_i$ score for negative performance is therefore: \$0 for the line that was late by 2 days. This means that $S3_i = \$1980 - \$0 = \$1980$ .
715	For the fourth month, the $S3_i$ of \$0 (because the expected performance level was not exceeded) will have to be added to the amount of late individual lines for that month. Of the 6 lines that were late in the fourth month, 1 was late by 2 days, 5 were late by 22 days. The associated $S3_i$ scores for negative performance are therefore: \$0 for the line that was late by 2 days, and -1.0% of price (which is -\$10) for each of the 5 lines that were late by 22 days. This means that $S3_i = \$0 - \$50 = -\$50$ .
716	For the fifth month, the $S3_i$ of \$0 (because the expected performance level was not exceeded) will have to be added to the amount of late individual lines for that month. Of the 7 lines that were late in the fifth month, 2 were late by 2 days, 5 were late by 22 days. The associated $S3_i$ scores for negative performance are therefore: \$0 for the line that was late by 2 days, and -1.0% of price (which is -\$10) for each of the 5 lines that were late by 22 days. This means that $S3_i = \$0 - \$50 = -\$50$ .
717	For the sixth month, the $S3_i$ of \$0 (because the expected performance level was not exceeded) will have to be added to the amount of late individual lines for that month. Of the 6 lines that were late in the sixth month, 2 were late by 2 days, 4 were late by 22 days. The associated $S3_i$ scores for negative performance are therefore: \$0 for the line that was late by 2 days, and -1.0% of price (which is -\$10) for each of the 4 lines that were late by 22 days. This means that $S3_i = \$0 - \$40 = -\$40$ .
718	<p>For example purposes only, there were only 6 available months for review during this year in review.</p> <p>Therefore, <math>\sum_{i=a}^n S3_i</math> will be equal to <math>\\$930 + \\$1460 + \\$1980 - \\$50 - \\$50 - \\$40 = \\$4230</math>.</p> <p>When included into the formula for <math>S3R</math>, the Contractor will get:</p> $S3R = \left( \sum_{i=a}^n S3_i \right) / (6\% \times YMF\$ \times W3)$ $= \$4230 / (6\% \times YMF\$ \times W3).$ <p>Let us now assume that, for example purposes only, the Yearly Management Fee is \$1M. Also, given the proposed weighting <math>W3</math> of 30%, the formula then computes to:</p> $S3R = \sum_{i=a}^n S3_i / (6\% \times YMF\$ \times W3)$ $= \$4230 / (6\% \times YMF\$ \times W3)$ $= \$4230 / (6\% \times \$1M \times 0.30)$ $= \$4230 / (\$18,000)$ $= 0.235$ $= 0.24 \text{ (rounded to two decimal places); a positive score for } S3R \text{ input into the score for } S3 \text{ and then into the CPS.}$



ID	Performance Metrics		
494	<b>4.1.5 Urgent Spare Parts</b>		
470	<b>4.1.5.1 Incentive/Disincentive Model for Urgent Spare Parts Delivery</b>		
471	Spares delivery will be tracked per individual line items that have an extended value of \$100 or more.		
719	The scores achieved for delivery of Urgent Spare Parts will be included in the calculation of S3U given the metric for PBM 3 (S3) includes associated scores for both Replenishment Spare Parts (S3R) and Urgent Spare Parts (S3U) deliveries.		
720	<p>The formula stated below remains applicable to Urgent Spare Parts where S3<sub>i</sub> is the associated score for each line delivered as result of Urgent Spare Parts orders.</p> $S3U = \sum_{i=a}^n S3_i / (6\% \times YMF\$ \times W3)$		
721	The associated scores (S3 <sub>i</sub> ) for input into the overall score for this metric (S3U) will be calculated using the total of on-time delivery of individual lines for the month when the expected performance level is met or exceeded; and they will be calculated on each late delivery per individual line when the expected performance level is not met.		
722	As stated in Annex B, the standard to be achieved for all Urgent Spare Parts deliveries is a Turn Around Time as proposed by the Canada and agreed to by the Contractor at the time the requisition is made.		
723	<p>The expected performance level sees 100% of all individual lines delivered on time. A positive performance in the table below indicates the expected performance level was met; a negative performance indicates the expected performance level was not achieved and the associated score is therefore a negative value (expressed in dollars).</p> <p>A "day" in the table below refers to a calendar day.</p>		
475	Performance Definition	Performance Level	Associated Score for input to S3U calculation (S3 <sub>i</sub> ):
	Positive Performance	100% of individual lines are delivered on time, per month	(S3 <sub>i</sub> ) = 5.0% of price of the individual line for all lines delivered on-time in that month
	Negative Performance	The Individual line is late by: >5 days and ≤ 15 days	S3 <sub>i</sub> ) = -1.0% of price of the individual line which is late by the stated timeframe
		The Individual line is late by: > 15 days and ≤ 30 days	(S3 <sub>i</sub> ) = -1.5% of price of the individual line which is late by the stated timeframe
		The Individual line is late by: > 30 days	(S3 <sub>i</sub> ) = -2.0% of price of the individual line which is late by the stated timeframe
334	<b>5 R&amp;O - Free Flow Delivery Management Performance Metric (PBM 4)</b>		
725	The incentive and disincentive model in the following paragraphs (under Section 5 - PBM 4) will be used by the Contractor and Canada for PBM 4.		

ID	Performance Metrics		
343	<b>5.1 Performance Scoring</b>		
344	<b>5.1.1 Source of Data</b>		
345	The Contractor shall collect data from the Contractor's supply management system.		
346	<b>5.1.2 Collection of Data and Deliverables</b>		
347	The Contractor shall collect data quarterly and present it in the Services Status Report IAW CDRL SMP-ISS-011 / DID SMP-ISS-011.		
348	<b>5.1.3 Acceptable Performance Level</b>		
349	The acceptable performance level is proposed in the Incentive/Disincentive Model shown in the next paragraph.		
352	<b>5.1.4 Incentive/Disincentive Model</b>		
354	R&O delivery will be tracked per individual component.		
726	<p>The score for this metric (S4) shall range variably between -1 and +1, therefore any score achieved above 1 will be rounded down to equal 1; and score achieved below -1 will be rounded up to equal -1. The score for S4 shall be computed according to the following formula:</p> $S4 = \sum_{i=a}^n S4_i / (6\% \times YMF\$ \times W4)$ <p>-where <math>\sum_{i=a}^n S4_i</math> is the sum of associated scores for each line delivered: (S4<sub>a</sub> + S4<sub>b</sub> + S4<sub>c</sub> + ... + S4<sub>n</sub>) expressed in a dollar value;</p> <p>-where n is the number of R&amp;O items delivered both as positive performance or negative performance;          -where 6% is the Maximum Incentive/Disincentive Percentage; and          -where YMF\$ is the Yearly Management Fee expressed in a dollar value, this calculated as 12 x Monthly Management Fee (as detailed in the Basis of Payment).</p> <p>The intent of this formula is to ensure that the associated scores (S4<sub>i</sub>) correspond to the percentages in the below table (within the limit imposed by the S4 range of -1 to 1).</p>		
727	The associated scores (S4 <sub>i</sub> ) for input into the overall score for this metric (S4) will be calculated using the total of on-time delivery of R&O items for the month when the expected performance level is met or exceeded; and they will be calculated on each late delivery per R&O item when the expected performance level is not met.		
728	As stated in Annex B, the standard to be achieved for all Repair and Overhaul deliveries is a Turn Around Time as proposed by the Contractor and approved by Canada at the Initial Provisioning Conference of the Acquisition Contract.		
729	<p>The expected performance level sees 95% of all R&amp;O items delivered on time. A positive performance in the table below indicates the expected performance level was met, or exceeded; a negative performance indicates the expected performance level was not achieved and the associated score is therefore a negative value (expressed in dollars).</p> <p>A "day" in the table below refers to a calendar day.</p>		
637	Performance	Performance	Associated Score for input

ID	Performance Metrics		
	Definition	Level	to S4 calculation ( $S_{4i}$ ):
	Positive Performance	95% or more of R&O items are delivered on time in the first month  ----- 95% or more of R&O items are delivered on time in the second consecutive month  ----- 95% or more of R&O items are delivered on time in the third consecutive month or longer	( $S_{4i}$ ) = 1.0% of price of the R&O item for all items delivered on-time in that month  ----- ( $S_{4i}$ ) = 1.5% of price of the R&O item for all items delivered on-time in that second consecutive month  ----- ( $S_{4i}$ ) = 2.0% of price of the R&O item for all items delivered on-time in a month beginning at the third consecutive month and ending when more than 95% of individual lines are not delivered on time.
	Negative Performance	The R&O item is late by: >7 days and ≤ 60 days  ----- The R&O item is late by: > 60 days and ≤ 90 days  ----- The R&O item is late by: > 90 days	( $S_{4i}$ ) = -1.0% of price of the individual line which is late by the stated timeframe  ----- ( $S_{4i}$ ) = -1.5% of price of the individual line which is late by the stated timeframe  ----- ( $S_{4i}$ ) = -2.0% of price of the individual line which is late by the stated timeframe
140	<b>6 Major Repair Program Performance Metric (PBM 5)</b>		
730	The incentive and disincentive model in the following paragraphs (under Section 6 - PBM 5) will be used by the Contractor and Canada for PBM 5.		
149	<b>6.1 Performance Scoring</b>		
150	<b>6.1.1 Source of Data</b>		
151	The Contractor shall collect data from the Contractor's supply management system.		
152	<b>6.1.2 Collection of Data and Deliverables</b>		
153	The Contractor shall collect data quarterly and present it in the Services Status Report IAW CDRL SMP-ISS-011 / DID SMP-ISS-011.		
158	<b>6.1.3 Incentive/Disincentive Model</b>		
391	Major Repair Program delivery will be tracked per individual Vehicle, APS or Trailer. The associated scores will		

ID	Performance Metrics
	be calculated per individual Vehicle, APS or Trailer per year.
546	<p>The score for this metric (S5) shall range linearly between -1 (for an average delivery of 30% or later than Contractor estimate) and +1 (for an average delivery of 30% or earlier than Contractor estimate).</p> <p>Any score achieved at or above 1 will be rounded down to equal 1; and any score achieved at or below -1 will be rounded up to equal -1. The formula used to compute the value for S5 is:</p> <p><math>S5 = (\text{AVERAGE SCHEDULE VARIANCE}) / 30\%</math></p> <p>where <math>\text{AVERAGE SCHEDULE VARIANCE} = (1/N) \times \left( \sum_{i=1}^N i \right)</math></p> <p>where i is <math>-(y - z) / z</math>;</p> <p>where y is Actual Delivery date less Actual Start date (expressed in days);</p> <p>where z is Planned Delivery date less Planned Start date (expressed in days); and</p> <p>where N is the number of MRPs delivered in the year under review.</p>

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 - Resulting Contract ISS

**ISS - ANNEX B - STATEMENT OF WORK**

**ATTACHMENT BB-1**

**PROJECT MANAGEMENT SURVEY**

### Project Management Survey

The purpose of this Survey is to assess Contractor's Management competence in overall Project Management activities.

Points	Survey Elements	SOW Reference Paragraph	Met (answer is Yes)	Not Met (answer is No)	No Activity
	<b>Project Management – Coordination and Management</b>	3.1.1			
2	1. Meeting minutes have been provided within 5 working days after meeting, 90% of time.	Annex B. 3.1.1.1.9. 4& CDRL			
2	2. Meeting Action Items Log issues closed or updated weekly, 90% of time.	Annex B. 3.1.1.1.11 & CDRL			
4	3. No Data Items are late.	As per CDRL			
	<b>Project Performance Management</b>	3.1.2			
4	4. Performance Exception List (PEL) issues closed or updated as of the date of this survey.	Annex B. 3.1.2.1.5			
	<b>Task Management</b>	3.1.3			
4	5. Task deliverables are on time, every time.	Annex B. 3.1.3 & ISS Contract Clauses			
4	6. DND 626 task proposal submitted to DND within 10 working days, every time.	ISS Contract Clauses			
	<b>Supply Support</b>	3.2			
4	7. Urgent Spares Quotation provided on time, every time.	Annex B. 3.2.1.1.3			
4	8. Qualified FSR arrives on time (as agreed to) when requested.	Annex B 3.3.1.3.			
	<b>Engineering Support</b>	3.4			
4	9. Technical Data Package provided to Canada within 2 days upon request, every time.	Annex B. 3.4.5.1.5			
4	10. Technical Publications are updated as agreed upon, as of the date of this survey.	Annex B 3.4.4.			
2	11. Reliability / Trend Analysis Reports are submitted on time,	Annex B 3.4.3.2.2.			

	every time, when requested.	1.			
	<b>EIE</b>	Appendix BE			
4	12. EIE available for 24 hours a day, 7 days a week, excluding planned down time.	Appendix BE, para. 2.11			
<b>42 (max)</b>	<b>Total points avail for this survey:</b>	<b>(points for elements met) + (points for elements not met)</b>			
	<b>Total points awarded for this survey:</b>	<b>Points for elements met</b>			

**Met**

- Full points for that element

**Not Met**

- No points for that element

**No Activity**

- activity did not occur during the evaluation period
- points for that element to be removed from the total points available for the survey.

Average Annual Survey Score:

Score of all surveys of that quarter averaged by converting all scores to a common denominator of 100 (percentage) and take the average.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 - Resulting Contract ISS

**ISS - ANNEX B - STATEMENT OF WORK**

**ATTACHMENT BB-2**

**NOT USED**



# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 - Resulting Contract ISS

**ANNEX B - STATEMENT OF WORK**

**APPENDIX BC – NOT USED**

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 - Resulting Contract ISS

**ANNEX B - STATEMENT OF WORK**

**APPENDIX BD – NOT USED**

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex B

STATEMENT OF WORK

APPENDIX BE – ELECTRONIC INFORMATION ENVIRONMENT (EIE)

ID	Electronic Information Environment	Proposal Compliance Methods	Evaluation Point Allocation
103	<b>1 Electronic Information Environment (EIE)</b>		
104	The EIE will supply DND with electronic access to the features, tools, and data required in support of the performance of SMP life-cycle activities assigned to DND. The EIE will support DND's SMP equipment acquisition management, and associated contract management, as performed by PMO MSVS and the MSVS SMP Equipment Management Team (EMT).	Information Only	N/A
180	"Users" herein include both Canada and Contractor.	Information Only	N/A
1	<b>2 General Features</b>	N/A	N/A
105	The EIE will be comprised of applications, data, and infrastructures, existing and new, that the Contractor, from initiation of the contract, will progressively supply in time to meet Canada's requirements. The EIE will provide timely access, as described in the ISS SOW, to increased capabilities.	Information Only	N/A
181	The content (data) will be initially made available as specified in the acquisition and ISS SOWs. The EIE shall provide access to SMP data of record in a manner transparent to the location where the particular data may be maintained.	SOC	Mandatory Requirement. No points allotted.
22	The EIE shall provide remote bi-directional access, between DND and the Contractor, to SMP data for the acquisition and ISS activities.	SOC	Mandatory Requirement. No points allotted.
198	The EIE shall provide authorized users with access to required data to perform the life-cycle activities in support of the Equipment.	SOC	Mandatory Requirement. No points allotted.
2	<b>2.1 Web-browser Based Access</b>	N/A	N/A
3	The EIE shall provide users with access to SMP features, tools, and data, through the use of DND's standard Internet browser application on the DND Defence Wide Area Network (DWAN), and from any standalone Internet station. The DWAN Internet Browser is able to support web-based portals, FTP sites and authorized HTTPS sites.	SOC	Mandatory Requirement. No points allotted.
168	<b>2.2 Information System security</b>	N/A	N/A
169	The Contractor shall comply with the requirements identified in DND/CF Information System Certification and Accreditation guideline, A-IM-100-000/AG-001, for information systems delivered.	SOC	Mandatory Requirement. No points allotted.

ID	Electronic Information Environment	Proposal Compliance Methods	Evaluation Point Allocation
35	<b>2.3 Support for Standard Office Automation Tools</b>	N/A	N/A
36	The EIE shall support Canada's use of Microsoft Office Suite and Exchange as the standard office automation tool set and the means by which to send and receive email.	SOC	Mandatory Requirement. No points allotted.
4	<b>2.4 User-Computer Interface</b>	N/A	N/A
5	The EIE shall comply with user-computer interface standards established in MIL-STD-1472F, paragraph 5.14.	SOC	Mandatory Requirement. No points allotted.
6	<b>2.5 Access Control</b>	N/A	N/A
7	The EIE shall authenticate users to control access and comply with DND Operational Security Standard for Information Systems A-SJ-100-002/AS-001, Chapter 3, Section 2, Security Controls regarding access and audit functions.	SOC	Mandatory Requirement. No points allotted.
108	<b>2.6 Guidance on Use of EIE</b>	N/A	N/A
109	The EIE shall provide access to on-line help and/or demos that guide the user through the use of the EIE.	SOC	Mandatory Requirement. No points allotted.
8	<b>2.7 Printing Capability</b>	N/A	N/A
9	The EIE shall allow a user to print or plot EIE data so that it can be reviewed.	SOC	Mandatory Requirement. No points allotted.
32	<b>2.8 Drawings</b>	N/A	N/A
33	The EIE shall access and display drawings.	SOC	Mandatory Requirement. No points allotted.
34	The EIE shall allow a user to print drawings.	SOC	Mandatory Requirement. No points allotted.
23	<b>2.9 Import and Export Capabilities</b>	N/A	N/A
24	The EIE shall support DND's use of Microsoft Office Suite as the standard software for importing and exporting data, as required.	SOC	Mandatory Requirement. No points allotted.

ID	Electronic Information Environment	Proposal Compliance Methods	Evaluation Point Allocation
10	<b>2.10 User Accounts</b>	N/A	N/A
11	The EIE shall be accessed through Contractor provided and maintained user accounts management services.	SOC	Mandatory Requirement. No points allotted.
200	The Contractor shall provide Canada with up to 25 workstation licences for EIE.	SOC	Mandatory Requirement. No points allotted.
12	<b>2.11 EIE Access</b>	N/A	N/A
13	The EIE shall be accessible to authorized users from the Defence Wide Area Network (DWAN).	SOC	Mandatory Requirement. No points allotted.
25	The EIE shall be available to Canada in the performance of its life cycle support activities for 24 hours a day, 7 days a week, excluding Contractor planned down time.	SOC	Mandatory Requirement. No points allotted.
26	The EIE shall have Contractor-planned downtime scheduled only between the hours of 10:00 PM to 06:00 AM (EST) Mondays to Fridays, and on Saturdays, Sundays, and Canada's statutory holidays.	SOC	Mandatory Requirement. No points allotted.
27	The EIE shall be available for access with a total Contractor-planned downtime that is not to exceed 36 hours per calendar month.	SOC	Mandatory Requirement. No points allotted.
28	The EIE shall alert users of the time and duration of the Contractor-planned downtime at least one working day prior its occurrence.	SOC	Mandatory Requirement. No points allotted.
199	For any period that the EIE is not operational, all activities shall be maintained outside the EIE and be made available to Canada when requested.	SOC	Mandatory Requirement. No points allotted.
98	<b>2.12 Notifications and Alerts</b>	N/A	N/A
99	The EIE shall notify users when new posting or update on the EIE is available or when user action is required.	SOC	Mandatory Requirement. No points allotted.
37	<b>2.13 Routing and Electronic Notification</b>	N/A	N/A
38	The EIE shall provide electronic routing and notification, via e-mail or other automated means, identifying availability of data to designated individuals.	SOC	Mandatory Requirement. No points allotted.
39	<b>2.14 Process Tracking and Hastening</b>	N/A	N/A
40	The EIE shall keep track of status and display the remaining response times and due dates of workflow,	SOC	Mandatory Requirement.

ID	Electronic Information Environment	Proposal Compliance Methods	Evaluation Point Allocation
	and be able to hasten users to action.		No points allotted.
41	<b>2.15 Access to Version History and Storage capability</b>	N/A	N/A
97	The EIE shall have document storage and retrieval features including version history.	SOC	Mandatory Requirement. No points allotted.
42	The EIE shall display data version history, based upon user-selected parameters, to support Canada in the management and administration of contractual deliverables and activities.	SOC	Mandatory Requirement. No points allotted.
14	<b>2.16 Data Currency</b>	N/A	N/A
15	The EIE shall provide access to the latest released technical data.	SOC	Mandatory Requirement. No points allotted.
106	<b>2.17 Data History and Audit Trail</b>	N/A	N/A
107	The EIE shall maintain, track and administer a complete history and audit trail of SMP data in order to maintain data integrity.	SOC	Mandatory Requirement. No points allotted.
182	<b>2.18 Data Review and Approval Process</b>	N/A	N/A
29	The EIE shall provide users with processes, features, tools and data, that are necessary to support the review, comment, and approval of deliverable data for both acquisition and ISS contracts.	SOC	Mandatory Requirement. No points allotted.
43	The EIE shall allow a user to electronically access, transfer, retain, post and modify an electronic copy of Contract Data Requirement List (CDRL), data items, Life cycle data, Project Management data, engineering change process, design reviews and other data as necessary to support the review and use of data by Canada in the performance of contract management and life-cycle support activities.	SOC	Mandatory Requirement. No points allotted.
44	<b>3 Contractual Data Deliverables</b>	N/A	N/A
17	In support of Contract Data Deliverables and other data management the EIE shall record, track, administer, process, and post the data elements of the CDRL and related DIDs and Data Items (DIs) and other deliverable requirements and work statements.	SOC	Mandatory Requirement. No points allotted.
18	<b>3.1 Contract Data Requirements List Item Database</b>	N/A	N/A
19	The CDRL Item Database shall contain fields as defined in Contract Data (CDRL, DIDs) documents	SOC	Mandatory Requirement.

ID	Electronic Information Environment	Proposal Compliance Methods	Evaluation Point Allocation
	of acquisition (Appendix BE) and ISS (Appendix BI) contracts and the history of the transactions of each DI as per the following fields: a. item number; b. submission number (ie. first, second, third, etc); c. submission type (original, revision, subsequent); d. title; e. linked event/milestone; f. due date to PMO; g. date sent to PMO; h. Contractor Document reference; i. Contractor Document number; j. Contractor Document date; k. PMO/EMT comments due date; l. PMO/EMT comments received date; m. approval code: A (Approval), R (Review); n. PMO/EMT response reference; and o. remarks.		No points allotted.
20	<b>3.2 Data Information</b>	N/A	N/A
21	The EIE shall display data authorship, ownership, associated data, and status, including in-progress, submitted, approved, and released.	SOC	Mandatory Requirement. No points allotted.
30	<b>3.3 Review, Annotations and Comments</b>	N/A	N/A
31	The EIE shall allow Canada to review, print and download files, make electronic annotations, and capture comments and return by using Canada's standard office automation tool set (e.g., Microsoft Word, Microsoft Project), and as encapsulated files (e.g., Adobe Acrobat).	SOC	Mandatory Requirement. No points allotted.
45	<b>4 Project Management Control System (PMCS)</b>	N/A	N/A
110	The Project Management Control System (PMCS) shall provide the necessary automated capabilities to ensure the maintenance of valid, auditable, and timely cost/schedule data as required in the planning and control activities of the contracts.	SOC	Mandatory Requirement. No points allotted.
184	The EIE shall provide native files for all data posted on the PMCS.	SOC	Mandatory Requirement.



ID	Electronic Information Environment	Proposal Compliance Methods	Evaluation Point Allocation
			No points allotted.
47	<b>4.1 Master Project Schedule</b>	N/A	N/A
48	The EIE shall display the Master Project Schedules for the acquisition and ISS contracts IAW the respective CDRLs.	SOC	Mandatory Requirement. No points allotted.
54	<b>4.2 Meetings</b>	N/A	N/A
55	The EIE shall track and display Progress Review Meetings (PRMs), Systems Engineering Management Team (SEMT), ILSMT and ISSMT Meetings and other SMP Project related meetings information, including progress on problems or special issues, technical performance, activities, activities accomplished and planned, explanations, corrective actions, anticipated problems, and proposed solutions.	SOC	Mandatory Requirement. No points allotted.
56	The EIE shall display Meeting Agenda and Meeting Minutes for acquisition and ISS Contract IAW the respective CDRLs.	SOC	Mandatory Requirement. No points allotted.
93	The EIE shall display supporting documentation as per SOWs.	SOC	Mandatory Requirement. No points allotted.
49	<b>4.3 Action Items Log (AIL)</b>	N/A	N/A
50	The EIE shall display the AILs for the acquisition and ISS contracts IAW the respective CDRLs.	SOC	Mandatory Requirement. No points allotted.
51	The EIE shall allow users to view, modify and add new action items.	SOC	Mandatory Requirement. No points allotted.
59	<b>4.4 Risk/Issue Register</b>	N/A	N/A
60	The EIE shall display the Risk Registers for the acquisition and ISS contracts IAW the respective CDRLs.	SOC	Mandatory Requirement. No points allotted.
65	<b>5 Project Performance Management System</b>	N/A	N/A
69	The EIE shall allow users to post, remove and modify Qualitative and Quantitative surveys generated by Canada and the Contractor.	SOC	Mandatory Requirement. No points allotted.
90	The EIE shall display the Performance Exception List (PEL) and allow Canada to view, modify and add	SOC	Mandatory Requirement.

ID	Electronic Information Environment	Proposal Compliance Methods	Evaluation Point Allocation
	items to it.		No points allotted.
120	The EIE shall allow a user to download, to a locally accessible destination of the user's choice, a Comma Separated Value formatted copy of all the source data used in the calculation of a specified metric for historical time periods, in divisions of whole months, as specified by the user.	SOC	Mandatory Requirement. No points allotted.
70	<b>5.1 Historical Records</b>	N/A	N/A
72	The EIE shall generate and store, in a location that is retrievable by a user, for each selected month of the contract a copy of the source data, that was used by the Contractor to render the levels of performance.	SOC	Mandatory Requirement. No points allotted.
152	<b>6 Technical Problem Management System (TPMS)</b>	N/A	N/A
156	The EIE shall provide a Technical Problem Management System (TPMS) to continuously track technical problems initiation and resolution.	SOC	Mandatory Requirement. No points allotted.
153	<b>6.1 Data Capture Capability</b>	N/A	N/A
154	The TPMS shall capture the data and attachments (e.g. photos, data files, etc) required to: a. identify the Equipment or support service the technical problem is reported against; b. describe the technical problem and attributes or characteristics of the technical problem including the specific circumstances within which the technical problem was observed or found; c. identify the originator, reviewer(s) and DND release authority for the technical problem including contact information; d. indicate the DND priority for technical problem resolution; e. determine the support service that is accountable for the resolution of the reported technical problem; and f. enable a screener to determine if a reported technical problem already exists within the TPMS.	SOC	Mandatory Requirement. No points allotted.
159	<b>6.2 Technical Problem Initiation</b>	N/A	N/A
160	The TPMS shall enable a user to raise a technical problem notification report against any element of the Equipment.	SOC	Mandatory Requirement. No points allotted.
161	<b>6.3 Resolution Tracking Capabilities</b>	N/A	N/A

ID	Electronic Information Environment	Proposal Compliance Methods	Evaluation Point Allocation
162	The TPMS shall allow a user to query the resolution status and details of technical problems including: problem title, class and priority; date initiated; assigned investigator, contact info and date assigned; investigation findings; correspondence amongst investigators or between the Contractor and DND; solution options under consideration; impact and sensitivity analyses results; proposed solution; approvals and approval contact information; and links to all completed technical problems.	SOC	Mandatory Requirement. No points allotted.
163	<b>6.4 Workflow Management</b>	N/A	N/A
164	The TPMS shall provide the option for users to route technical problems to: a. Subject Matter Experts who will be responsible for the conduct of a technical investigation, and the documentation of findings (e.g. cause factors), solutions options analyses and recommendations within the TPMS; and b. authorities, responsible for rendering approval decisions, including DND, as required.	SOC	Mandatory Requirement. No points allotted.
165	For technical problem resolution recommendations requiring DND approval, the TPMS shall be able to produce reports.	SOC	Mandatory Requirement. No points allotted.
78	<b>7 Configuration Management</b>	N/A	N/A
79	<b>7.1 Change Request Control</b>	N/A	N/A
130	The EIE shall provide a user with access to processes, features, tools and data, that are necessary to support the review, comment, and approval of configuration changes.	SOC	Mandatory Requirement. No points allotted.
80	The EIE shall allow a user to create, display, edit, and process configuration change proposals, including but not limited to Contract Change Proposals, Engineering Change Proposals, Requests for Deviation, Requests for Waiver, Specification Change Notices, and Materiel Change Notices.	SOC	Mandatory Requirement. No points allotted.
83	<b>8 LSA Features</b>	N/A	N/A
145	The EIE shall provide users with processes, features, tools and data, that are necessary to manipulate LSA data.	SOC	Mandatory Requirement. No points allotted.
84	The EIE shall provide users with electronic access to a LSA data repository to enable Canada to import/export LSAR data to DND's Omega PS LSAR.	SOC	Mandatory Requirement. No points allotted.
85	<b>9 Technical Documentation (TD) Database</b>	N/A	N/A

ID	Electronic Information Environment	Proposal Compliance Methods	Evaluation Point Allocation
135	The EIE shall provide users with electronic access to the acquisition contract TDP through a Technical Documentation (TD) Database, when requested by Canada.	SOC	Mandatory Requirement. No points allotted.
136	The EIE shall allow users to view, export and print technical documentation.	SOC	Mandatory Requirement. No points allotted.
142	<b>9.1 TD Database</b>	N/A	N/A
139	The EIE shall track and display TD requests including identifier of who raised the request, document number, date requested and date posted for Canada use, as well as the date of disposal.	SOC	Mandatory Requirement. No points allotted.
141	<b>9.2 Not Used</b>	N/A	N/A
	<b>9.3 Electronic Notification</b>		
138	The EIE shall provide electronic notification, via e-mail or other automated means, identifying both request pending to the Contractor and availability of technical documents to designated individuals.	SOC	Mandatory Requirement. No points allotted.
88	<b>10 Training Support</b>	N/A	N/A
89	The EIE shall provide users with electronic access to Courseware and Training documentation to enable Canada to import and export data in a format that is acceptable to DND.	SOC	Mandatory Requirement. No points allotted.
147	<b>11 Warranty Support</b>	N/A	N/A
166	The EIE shall display Warranty Claim Reports IAW the acquisition contract.	SOC	Mandatory Requirement. No points allotted.
148	The EIE shall provide users with electronic access to processes, features, tools and data, that are necessary to support the review and comment on Warranty Claims Reports.	SOC	Mandatory Requirement. No points allotted.
149	The EIE shall display all closed Warranty Claims Reports and status of all ongoing open claims, including in-progress, submitted, approved.	SOC	Mandatory Requirement. No points allotted.
150	The EIE shall allow users to review, print and download files, make electronic annotations, and capture comments and return by using Canada's standard office automation tool set (e.g., Microsoft Word, Microsoft Project), and as encapsulated files (e.g., Adobe Acrobat).	SOC	Mandatory Requirement. No points allotted.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex B

STATEMENT OF WORK

APPENDIX BF – REPAIR AND OVERHAUL (R&O)

## Table of Contents

1 General .....	3
1.1 Aim .....	3
1.2 Extent of Work .....	3
1.3 Completion of Work .....	3
2 Administration .....	4
2.1 Receipt .....	4
2.2 Discrepancies in Shipments .....	4
2.3 Work Control .....	4
2.4 Cost Control .....	5
2.5 Costing Records .....	5
2.6 Plant Shut-Down/Vacation period .....	5
2.7 Stop Repair Action .....	5
3 Maintenance Support .....	6
3.1 Minor Repairs .....	6
3.2 Priority Repair Request .....	6
4 Supply Support .....	6
4.1 Contractor Supply Accounting .....	6
4.2 Transaction Documentation .....	6
4.3 Reports .....	6
4.4 Preservation and Packaging Failure .....	6
4.5 Reusable Containers .....	6
4.6 Stocktaking .....	7
4.7 Management of Canada-Owned Inventory .....	7
4.8 Embodiment Fees .....	7
4.9 Spares Review .....	7
4.10 Loss or Damage of Canada Materiel .....	7
4.11 Salvage .....	8
4.12 Scrap-Custody and Disposal .....	8
4.13 Selection Notice Observation Message (SNOM) .....	8
5 Miscellaneous .....	8
5.1 Warranty Consideration .....	8
5.2 Special Year-End Material Report .....	8

ID	Repair and Overhaul
1	<b>1 General</b>
2	<b>1.1 Aim</b>
133	The R&O requirement is divided into two categories: R&O and Major Repair Program (MRP). MRP is explained in Appendix BG. The R&O process is further divided into two types: R&O Free-flow and Repair Material Request (RMR), as depicted in Attachment BF-1.
3	The Contractor shall provide repair and overhaul services IAW applicable sections of A-LM-184-001/JS-001.
110	For Free-flow R&O, the Contractor shall repair and overhaul the items listed at Table 1 of Appendix 4 of Annex C, as requested.
135	For Repairable Materiel Request (RMR) the Contractor shall repair and overhaul the equipment for which it has received the appropriate authorization.
136	The Contractor shall conform to the supply procedures as are advised in this SOW for the management of Canada's equipment and stores in its possession. Repair and Overhaul priorities will be maintained as advised by the Requisitioning Authority (RA) or an appointed delegate.
5	<b>1.2 Extent of Work</b>
4	The intent is that repair and overhaul work will be done only where such is economically and technically justifiable or where required by technical specifications.
113	After completion of the R&O the item shall be brought back to the Original Equipment Manufacturer (OEM) specification of the given item. When no such specifications are provided or when the specification prescribed is considered by the Contractor to be inadequate, the Contractor shall submit through the National Defence Quality Assurance Representative (NDQAR) for DND approval, the standard of performance and reliability to which it proposes to R&O the equipment.
106	Components which, by design, cannot be re-used or repaired shall be replaced with new condition components. Use of refurbished to "as-new" condition components will be only in the exceptional cases and only when specifically authorized by DND. All components that are in an "as new" condition shall have their historical documentation presented to the NDQAR for verification and acceptance prior to being embodied on any Crown owned materiel.
131	The Contractor shall provide all spares, supplies and consumables required for the R&O work, i.e. 3rd and 4th level of repair which may include 1st to 4th level of spares.
6	<b>1.3 Completion of Work</b>
7	On completion of repair and overhaul, the Contractor shall prepare and transmit, in accordance with Part 2 of A-LM-184-001/JS-001, a change notification from the "RP" repair item to serviceable category code "AV" while processing the MSO 150.
8	<p>The following "Contractor Certification" shall be stamped on the CFSS Supply Document (DND 2227) and signed prior to the Contractor transmitting a condition code change notification using MSO 150: Contractor Notification</p> <p>I certify that the item(s) listed above have been inspected, tested and conform to all specifications and requirements detailed in the Contract or purchase order.</p> <p>Signature                      Date (Contractor QC)</p>

ID	Repair and Overhaul
9	<b>2 Administration</b>
10	<b>2.1 Receipt</b>
11	<p>Upon receipt of Canada equipment, the Contractor shall:</p> <ol style="list-style-type: none"> <li>Identify the equipment and ensure authority to repair (SNAPS, RMRs);</li> <li>Open a work order in CFSS using MSO 62P;</li> <li>Carry out a physical check to ensure that the item is complete and is in accordance with the accompanying vouchers;</li> <li>Complete receipt documentation, including any adjustment transactions, work order number; and</li> <li>Action warranty materiel.</li> </ol> <p>The Contractor shall raise the work order within 48 hours of delivery to the Contractor.</p>
12	If the Contractor is missing any information or documentation, the Contractor shall request it through the NDQAR.
13	For those items where the Basis of Payment is other than the firm price (in the case of RMR), and based on available information and inspection of the item, the Contractor shall determine the extent of work required, prepare a cost estimate, and if the cost to repair is below the Maximum Repair Cost (MRC), proceed with the repair. Whenever the cost to repair threatens to exceed the MRC, the Contractor shall request authority to proceed with the repair in accordance with Part 2 of A-LM-184-001/JS-001.
14	Where it is impossible to determine the cost to repair, the Contractor may be granted authority by the NDQAR to strip the equipment so as to assess its repair and overhaul potential and to estimate the costs. Unless otherwise specified, and regardless of the value of the equipment, the cost of the work involved in estimating the repair is chargeable to the item whether or not it is subsequently repaired.
15	<b>2.2 Discrepancies in Shipments</b>
16	<p>If, upon initial inspection, the Contractor identifies equipment as having the same form, fit and function as other equipment but as being mis-identified (as per Canadian Government Cataloguing System (CGCS)), the Contractor shall:</p> <ol style="list-style-type: none"> <li>Verify the MSO101 to verify the stock code or colloquial to identify like-equipment;</li> <li>Identify discrepancy when transmitting the receipt using MSO150;</li> <li>If required, transmit a MSO173 with the incorrect stock code quantity receipted, and return the mis-identified material to the shipping base; and</li> <li>Forward a message to the shipping base and inform NDQAR with the following information: <ol style="list-style-type: none"> <li>requisition number;</li> <li>receipted Stock Code (SC) and quantity actually received;</li> <li>no Discrepancy Report (DR) (CF1092) action taken; and</li> <li>suggest stock verification and consider complete.</li> </ol> </li> </ol>
17	When other discrepancies are discovered, the Contractor shall prepare a DR (CF 1092) in four copies, attaching a copy of the original issue instruction. A separate DR is required for each line item. The Contractor shall forward the DR to NDQAR and the Technical Authority (TA) within 45 calendar days of delivery of shipment.
18	<b>2.3 Work Control</b>
19	<p>The Contractor shall ensure that the repair of all Canada equipment is controlled by a serial numbered work order in accordance with Part 2 of A-LM-184-001/JS-001. Upon completion of work, the work order shall include at a minimum the following:</p> <ol style="list-style-type: none"> <li>A contract serial number against which all costs incurred are chargeable;</li> </ol>



ID	Repair and Overhaul
	<p>b. The NATO Stock Number (NSN) and Part Number (PN), description, quantity and serial number (if any) of item repaired;</p> <p>c. A cross-reference to all Supply Documents. This includes receipt, issues and returns, including scrap activity, finalization of repair, inspection, and final acceptance;</p> <p>d. Reference to the applicable technical data;</p> <p>e. Details of the work performed;</p> <p>f. A list of all the parts, by part number and description, found unserviceable and requiring repair and overhaul, ensuring that the repair scheme is referenced;</p> <p>g. A list of parts required, identifying the source of stock where the stores originated from;</p> <p>h. Repair cost estimate for other than firm fixed priced items (RMRs); and</p> <p>i. The identity of the person opening the work order.</p>
20	The Contractor shall provide to the NDQAR, and as necessary amend, a list of Contractor personnel authorized to open work orders.
21	<b>2.4 Cost Control</b>
22	For RMR only, the Contractor shall monitor the cost of each repair to ensure that total repair costs remain within approved limits. Appropriate management control procedures must be in place and records maintained. These control procedures and records shall be available for review and audit on request of the RA or the Contracting Authority (CA).
23	<b>2.5 Costing Records</b>
24	<p>The Contractor shall prepare forms and maintain records which will provide:</p> <p>a. A cost listing, by serial number if applicable, of each item or job lot going through the repair line;</p> <p>b. A detail of the extent of work carried out, in-process inspections completed and materiel embodied at any stage of the repair process;</p> <p>c. The average cost of repair and overhaul, by NSN; and</p> <p>d. The total repair cost for an item (NSN), by work order.</p> <p>The Contractor shall provide this data as requested by the RA, the CA and NDQAR.</p>
25	<b>2.6 Plant Shut-Down/Vacation period</b>
26	During plant shutdown and vacation periods, the Contractor shall ensure that adequate facilities/personnel are available to ensure the satisfaction of Priority Repair Requests (PRRs). It is the Contractor's responsibility to ensure that personnel are available to satisfy PRR requirements once identified.
71	<b>2.7 Stop Repair Action</b>
72	The Contractor shall comply immediately with all stop repair instructions in accordance with the procedures in

ID	Repair and Overhaul
	Part 2 of A-LM-184-001/JS-001.
29	<b>3 Maintenance Support</b>
30	<b>3.1 Minor Repairs</b>
31	Certain RMR equipment, because of its construction or use, may include sub-components or assemblies that are also repairable components in their own right. Minor repair may be carried out to the unserviceable part by the Contractor at the discretion of and as directed by the NDQAR.
34	<b>3.2 Priority Repair Request</b>
70	The Contractor shall satisfy all PRRs as defined in Part 2 of A-LM-184-001/JS-001.
35	The Contractor shall satisfy PRRs in an expeditious manner.
36	<b>4 Supply Support</b>
37	<b>4.1 Contractor Supply Accounting</b>
38	The Contractor shall account for materiel held on the Repairable Materiel Account (RMA) as per the Canadian Forces Supply System (CFSS) automated procedures in accordance with A-LM-184-001/JS-001. Contractor-held Inventory (CHI) will be accounted for in either a manual or an automated system. Regardless of the system used, the Contractor shall maintain an audit trail acceptable to Canada. Further, any automated or manual materiel accounting system shall first be approved by Canada. Supply accounting records for Canada materiel shall be maintained separate from other company records.
39	<b>4.2 Transaction Documentation</b>
40	The Contractor's Document Control Group (DCG) facilities shall file and retain the following auditable transaction documentations by RMA warehouse accounts either by stock code or by requisition number, in accordance with Part 3 of A-LM-184-001/JS-001:  TRANSACTIONS (i) Stock code sequence followed by requisition number; or (ii) Requisition number.
111	<b>4.3 Reports</b>
112	The following report is available on the CFSS MIMS to the Contractor: Two Months of Transaction History SERPT150 can be verified using MSO178/MSM178A action code ``T`` AND MSM119A, action code ``H``.
41	<b>4.4 Preservation and Packaging Failure</b>
42	The Contractor shall report equipment damaged due to preservation and packaging failures in shipments to the NDQAR using form CF 777, Unsatisfactory Condition Report (UCR), supported by photographs in accordance with C-02-015-001/AG-000.
43	<b>4.5 Reusable Containers</b>
44	The Contractor shall use containers utilized by Canada to return articles to be repaired and overhauled to the

ID	Repair and Overhaul
	Contractor's plant, if considered adequate to protect articles in shipment by the Contractor and the NDQAR, and meet required packaging level.
45	The Contractor shall inspect, repair and repaint reusable metal or wooden containers. All odd, non-pertinent markings, shall be obliterated by the use of a suitable masking paint; loose or curled labels shall also be removed prior to the application of new labels. Where a requirement to repair, replace or provide a reusable container or other packaging materiel has been identified, it will become a charge IAW the "Basis of Payment" and on the repair work order.
46	Surplus reusable containers, identified by NSN, shall be reported to the RA.
47	<b>4.6 Stocktaking</b>
48	The Contractor shall initiate and complete a one hundred per cent (100%) manual stocktaking of the RMA at least once every two years in accordance with Part 6 of A-LM-184-001/JS-001. Contractor Held Inventory (CHI) shall be reported annually for the Consumable and Repairable Inventory at the end of the Fiscal Year (31 March) to the RA IAW CDRL SMP-ISS-037/DID SMP-ISS-037.
78	<b>4.7 Management of Canada-Owned Inventory</b>
129	The Contractor shall handle inventory owned by Canada but held by Contractor, e.g. spare parts that are salvaged by the Contractor from DND owned equipment, scrap materiel and reusable containers.
79	The Contractor shall determine the requirement for all spares and other inventory for R&O and determine the source of inventory: Contractor Furnished or Contractor-held DND inventory.
130	The Contractor shall obtain the inventory, maintain custody of the inventory , account for the inventory in an approved manner, issue the spares for use on the R&O repair line and dispose (when so directed) of the spares in accordance with A-LM-184-001/JS-001.
81	For RMR only, the Contractor shall use spares in the following order: a. Contractor-held Inventory (CHI) ; b. Contractor Furnished Materiel (CFM).
82	CHI repairable spares shall be held as repairable until required. When repairable CHI requires repair and overhaul, it shall be approved by the NDQAR and repaired as per A-LM-184-001/JS-001.
83	<b>4.8 Embodiment Fees</b>
84	On this contract embodiment fees will not be considered.
86	<b>4.9 Spares Review</b>
87	In conjunction with the stocktaking schedule, the Contractor shall carry out a review of CHI to determine if stock holdings include any item which: a. has become surplus to requirement as a result of removal of the end item from the SNAPS; or b. is no longer usable because of a modification, change notice, product improvement, etc.
88	The Contractor shall dispose of and transfer spares which meet the criteria above and shall prepare and handle the necessary documentation associated with the disposal function in accordance with Part 7 of A-LM-184-001/JS-001.
52	<b>4.10 Loss or Damage of Canada Materiel</b>
53	The Contractor shall report to the NDQAR all instances of loss or damage to Canada-owned materiel in its custody within two working days of its discovery.
54	The Contractor may be authorized to make repairs to Canada-owned equipment on loan. All requests shall be forwarded to the RA for approval. If the Contractor is authorized to repair damaged Canada materiel, it shall

ID	Repair and Overhaul
	notify the applicable NDQAR before any repair commences to enable adequate quality assurance of the repair.
55	The Contractor shall action the loss or damage of materiel in transit in accordance with Part 8 of A-LM-184-001/JS-001.
122	<b>4.11 Salvage</b>
123	When concurred by the TA and approved by the RA, the R&O equipment/items may be reduced to Salvageable spares which are still usable, scrap materiel or both.
56	<b>4.12 Scrap-Custody and Disposal</b>
57	The Contractor shall safeguard, control, and dispose of scrap materiel in accordance with Part 7 of A-LM-184-001/JS-001.
121	Where applicable, as concurred by the TA and approved by the RA, the disposal of some special items may involve expenses from the Contractor. The payment associated with such disposals shall be IAW the Basis of Payment.
62	<b>4.13 Selection Notice Observation Message (SNOM)</b>
63	Should the Contractor wish to make observations on information contained in the SNAPS, including MRC, it shall do so by submitting its observations using the SNOM in accordance with Part 2 of A-LM-184-001/JS-001.
92	<b>5 Miscellaneous</b>
64	<b>5.1 Warranty Consideration</b>
65	Materiel which has been returned for warranty consideration shall be actioned in accordance with the Contract Terms and Conditions and Part 10 of A-LM-184-001/JS-001.
93	<b>5.2 Special Year-End Material Report</b>
108	The Contractor shall prepare and submit Year-End Contractor-held Inventory (CHI) Reports IAW CDRL SMP-ISS-037 / DID SMP-ISS-037.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

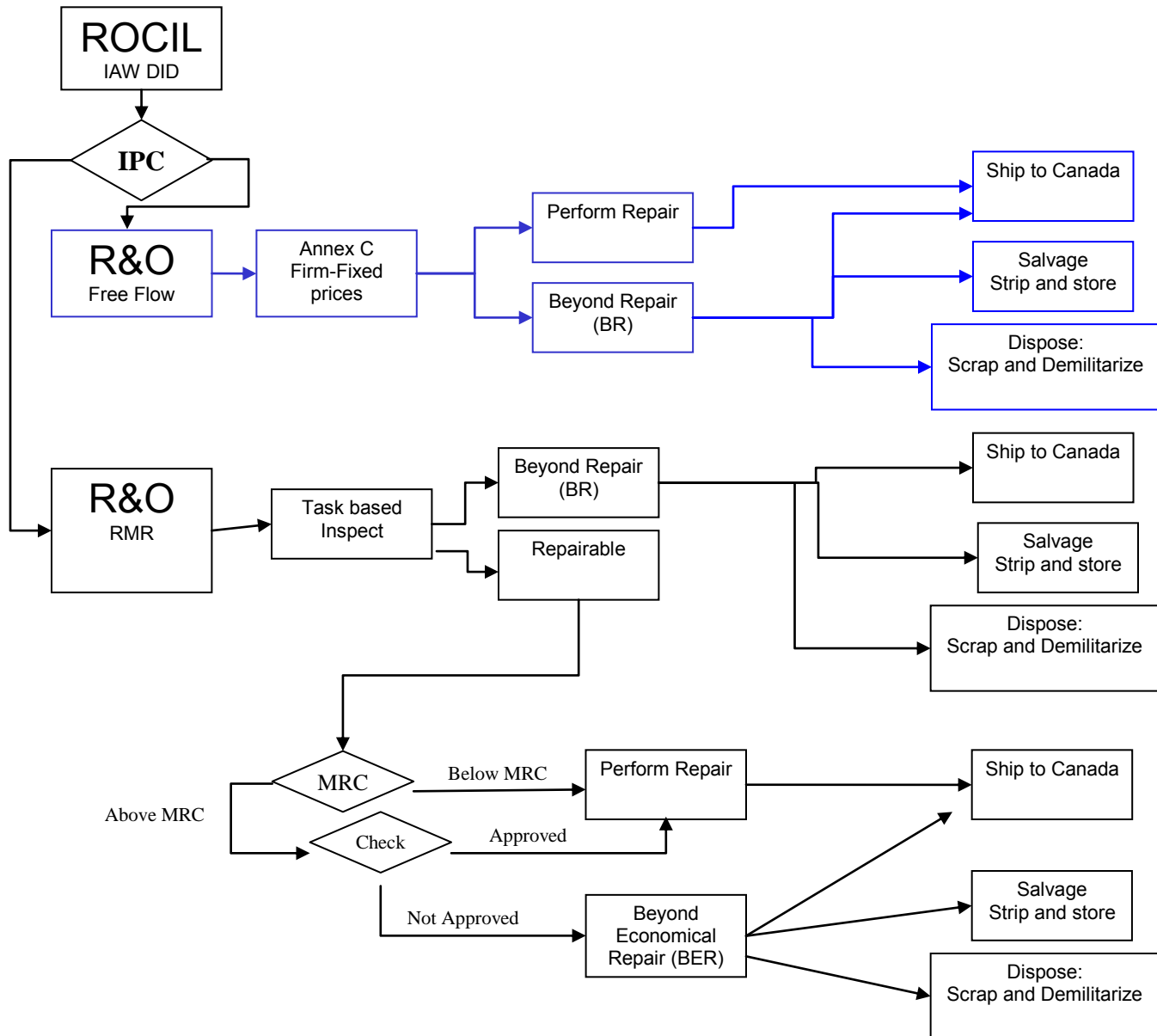
Annex B

STATEMENT OF WORK

APPENDIX BF – REPAIR AND OVERHAUL

ATTACHMENT BF-1 – R&O PROCESS FLOW DIAGRAM

## R&O PROCESS



**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex B

STATEMENT OF WORK

APPENDIX BG – MAJOR REPAIR PROGRAM (MRP)

TABLE OF CONTENTS

1 General ..... 3

    1.1 Aim ..... 3

    1.2 Extent of Work..... 3

    1.3 Completion of Work..... 3

2 Administration ..... 3

    2.1 Receipt ..... 3

    2.2 Discrepancies in Receipts ..... 4

    2.3 Work Control ..... 4

    2.4 Cost Control ..... 4

    2.5 Costing Records..... 5

    2.6 Plant Shut-Down/Vacation period ..... 5

    2.7 Stop Repair Action ..... 5

3 Supply Support ..... 5

    3.1 Contractor Supply Accounting..... 5

    3.2 Preservation and Packaging Failure ..... 5

    3.3 Management of Canada-Owned Inventory ..... 5

        3.3.1 Embodiment Fees..... 6

    3.4 Spares Review ..... 6

    3.5 Loss or Damage of Canada Materiel ..... 6

    3.6 Salvage ..... 6

    3.7 Scrap-Custody and Disposal..... 6

4 Miscellaneous ..... 6

    4.1 Warranty Consideration ..... 6

    4.2 Special Year-End Material Report..... 7



ID	Major Repair Program
1	<b>1 General</b>
2	<b>1.1 Aim</b>
112	The R&O requirement is divided into two categories: R&O and Major Repair Program (MRP). R&O is explained in Appendix BF. This Appendix is for the MRP, as depicted in Attachment BG-1.
108	The Contractor shall provide repair and overhaul services IAW sections of A-LM-184-001/JS-001 applicable to the Major Equipment repair and overhaul.
3	The Contractor shall conform to supply procedures in this SOW related to the management of Canada equipment and stores in its possession.
5	<b>1.2 Extent of Work</b>
113	The Contractor shall provide an R&O repair plan for the MRP IAW DID SMP-ISS-016
101	After completion of the R&O the item shall be brought back to the Original Equipment Manufacturer (OEM) specification of the given item. When no such specifications are provided or when the specification prescribed is considered by the Contractor to be inadequate, the Contractor shall submit through the National Defence Quality Assurance Representative (NDQAR) for DND approval, the standard of performance and reliability to which it proposes to R&O the equipment.
96	Components which, by design, cannot be re-used or repaired shall be replaced with new or refurbished to "as-new" condition components. Use of refurbished to "as-new" condition components will be only in the exceptional cases and only when specifically authorized by DND. All components that are in an "as new" condition shall have their historical documentation presented to the NDQAR for verification and acceptance prior to being embodied on any Crown owned materiel.
111	The Contractor shall provide all spares, supplies and consumables required for the R&O by the Contractor, i.e.3rd and 4th level of repair which may include 1st to 4th level of spares.
6	<b>1.3 Completion of Work</b>
7	On completion of repair and overhaul, the Contractor shall prepare and transmit, in accordance with Part 2 of A-LM-184-001/JS-001, a change notification from the "RP" repair item to serviceable category code "AV" while processing the MSO 150.
8	<p>The following "Contractor Certification" shall be stamped on the CFSS Supply Document (DND 2227) and signed prior to the Contractor transmitting a condition code change notification using MSO 150:</p> <p>Contractor Notification</p> <p>I certify that the item(s) listed above have been inspected, tested and conform to all specifications and requirements detailed in the Contract or purchase order.</p> <p>Signature (Contractor QC)</p> <p>Date</p>
9	<b>2 Administration</b>
10	<b>2.1 Receipt</b>
11	On receipt of Major (Code E) Equipment, the Contractor shall check the completeness of the major equipment

ID	Major Repair Program
	against the appropriate check lists and the consignor's issue voucher, and report any discrepancy to the consignor with an information copy to the NDQAR and the Requisitioning Authority (RA). The Contractor shall, within three working days of receipt of equipment, notify NDHQ/DSCO 3-5-3, as applicable, by e-mail message stating the applicable Equipment Movement Order (EMO) message, type and model, serial number(s) and registration numbers, and date of receipt.
15	<b>2.2 Discrepancies in Receipts</b>
89	<p>If, upon initial inspection, the Contractor identifies the Major Equipment as having the same form, fit and function as other Major Equipment but as being mis-identified, there is a discrepancy. A discrepancy in shipment can consist of any of the following:</p> <ul style="list-style-type: none"> <li>a. Identification;</li> <li>b. Surplus; or</li> <li>c. Shortage.</li> </ul>
90	The Contractor shall action discrepancies in shipments in accordance with PART 3 of A-LM-184-001/JS-001.
18	<b>2.3 Work Control</b>
19	<p>The Contractor shall ensure that the repair of all Major Equipment is controlled by a serial numbered work order in accordance with Part 2 of A-LM-184-001/JS-001. Upon completion of work, the work order shall include at least the following:</p> <ul style="list-style-type: none"> <li>a. A contract serial number against which all costs incurred are chargeable;</li> <li>b. The NATO Stock Number (NSN) and Part Number (PN), description, quantity and serial number, if any, of item repaired;</li> <li>c. A cross-reference to all Supply Documents. This includes receipt, issues and returns, including scrap activity, finalization of repair, inspection, and final acceptance;</li> <li>d. Reference to the applicable technical data;</li> <li>e. Details of the work performed;</li> <li>f. A list of all the parts, by part number and description, found unserviceable and requiring repair and overhaul, ensuring that the repair scheme is referenced;</li> <li>g. A list of parts required, identifying the source of stock where the stores originated from;</li> <li>h. Repair cost estimate; and</li> <li>i. The identity of the person opening the work order.</li> </ul>
20	The Contractor shall provide to the NDQAR, and as necessary amend, a list of Contractor personnel authorized to open work orders.
21	<b>2.4 Cost Control</b>
22	The Contractor shall monitor the cost of each repair to ensure that total repair costs remain within approved limits. Appropriate management control procedures must be in place and records maintained. These control procedures and records shall be available for review and audit on request of the RA or the Contracting Authority

ID	Major Repair Program
	(CA).
23	<b>2.5 Costing Records</b>
24	The Contractor shall prepare forms and maintain records which will provide: <ul style="list-style-type: none"> <li>a. A cost listing, by serial number if applicable, of each item or job lot going through the repair line;</li> <li>b. A detail of the extent of work carried out, in-process inspections completed and materiel embodied at any stage of the repair process;</li> <li>c. The average cost of repair and overhaul, by NSN; and</li> <li>d. The total repair cost for an item (NSN), by work order.</li> </ul> The Contractor shall provide this data as requested by the RA, the CA and NDQAR.
25	<b>2.6 Plant Shut-Down/Vacation period</b>
26	During plant shutdown and vacation periods, the Contractor shall ensure that adequate facilities/personnel are available to ensure the satisfaction of Priority Repair Requests (PRRs). It is the Contractor's responsibility to ensure that personnel are available to satisfy PRR requirements once identified.
75	<b>2.7 Stop Repair Action</b>
76	The Contractor shall comply immediately with all stop repair instructions in accordance with the procedures in Part 2 of A-LM-184-001/JS-001.
36	<b>3 Supply Support</b>
37	<b>3.1 Contractor Supply Accounting</b>
38	Contractor Held Inventory (CHI) will be accounted for in either a manual or an automated system. Regardless of the system used, the Contractor shall maintain an audit trail acceptable to Canada. Further, any automated or manual materiel accounting system shall first be approved by Canada. Supply accounting records for Canada materiel shall be maintained separate from other company records.
41	<b>3.2 Preservation and Packaging Failure</b>
42	The Contractor shall report equipment damaged due to preservation and packaging failures in shipments to the NDQAR using form CF 777, Unsatisfactory Condition Report (UCR), supported by photographs in accordance with C-02-015-001/AG-000.
66	<b>3.3 Management of Canada-Owned Inventory</b>
109	The Contractor shall handle inventory owned by Canada but held by the Contractor, e.g. spare parts that are salvaged by the Contractor from DND owned equipment, scrap materiel and reusable containers.
67	The Contractor shall determine the requirement for all spares and other inventory for R&O and determine the source of inventory: Contractor Furnished or Contractor-held DND inventory.
110	The Contractor shall obtain the inventory, maintain custody of the inventory, account for the inventory in an approved manner, issue the spares for use on the R&O repair line and for the disposal (when so directed) of the spares in accordance with A-LM-184-001/JS-001.
68	The Contractor shall use the spares in the following order <ul style="list-style-type: none"> <li>a. Contractor Held Inventory (CHI); and</li> <li>b. Contractor Furnished Materiel (CFM).</li> </ul>

ID	Major Repair Program
103	CHI repairable spares shall be held as repairable until required. When repair and overhaul of repairable CHI is approved by the NDQAR, the Contractor shall withdraw the required spares, bring them to charge using the Service Charge Work Order Form and, unless otherwise specified, charge the cost of such work to the contract. Upon completion of work, the spares will be returned to CHI stores or embodied.
98	<b>3.3.1 Embodiment Fees</b>
99	On this contract embodiment fees will not be considered.
72	<b>3.4 Spares Review</b>
74	In conjunction with the stocktaking schedule, the Contractor shall carry out a review of CHI to determine if stock holdings include any item which: a. has become surplus to requirement as a result of removal of the end item from the Selection Notice and Priority Summary (SNAPS); or b. is no longer usable because of a modification, change notice, product improvement, etc.
77	The Contractor shall dispose of and transfer spares which meet the criteria above and shall prepare and handle the necessary documentation associated with the disposal function in accordance with Part 7 of A-LM-184-001/JS-001.
52	<b>3.5 Loss or Damage of Canada Materiel</b>
53	The Contractor shall report to the NDQAR all instances of loss or damage to Canada-owned materiel in its custody within two working days of its discovery.
54	The Contractor may be authorized to make repairs to Canada-owned equipment on loan. All requests shall be forwarded to the RA for approval. If the Contractor is authorized to repair damaged Canada materiel, it shall notify the applicable NDQAR before any repair commences to enable adequate quality assurance of the repair.
55	The Contractor shall action the loss or damage of materiel in transit in accordance with Part 8 of A-LM-184-001/JS-001.
104	<b>3.6 Salvage</b>
105	When concurred by the TA and approved by the RA, the MRP equipment/items may be reduced to Salvageable spares which are still usable, scrap materiel or both.
56	<b>3.7 Scrap-Custody and Disposal</b>
57	The Contractor shall safeguard, control, and dispose of scrap materiel in accordance with Part 7 of A-LM-184-001/JS-001.
102	Where applicable, as concurred the DND TA or LCMM and approved by the RA, the disposal of some special items may involve expenses from the Contractor. The payment associated with such disposals shall be IAW the Basis Of Payment.
80	<b>4 Miscellaneous</b>
64	<b>4.1 Warranty Consideration</b>
65	Materiel which has been returned for warranty consideration shall be actioned in accordance with the Contract Terms and Conditions and Part 10 of A-LM-184-001/JS-001.

ID	Major Repair Program
83	<b>4.2 Special Year-End Material Report</b>
95	The Contractor shall prepare and submit Special Year-End Contractor-held Inventory (CHI) Reports IAW CDRL SMP-ISS-037 / DID SMP-ISS-037.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

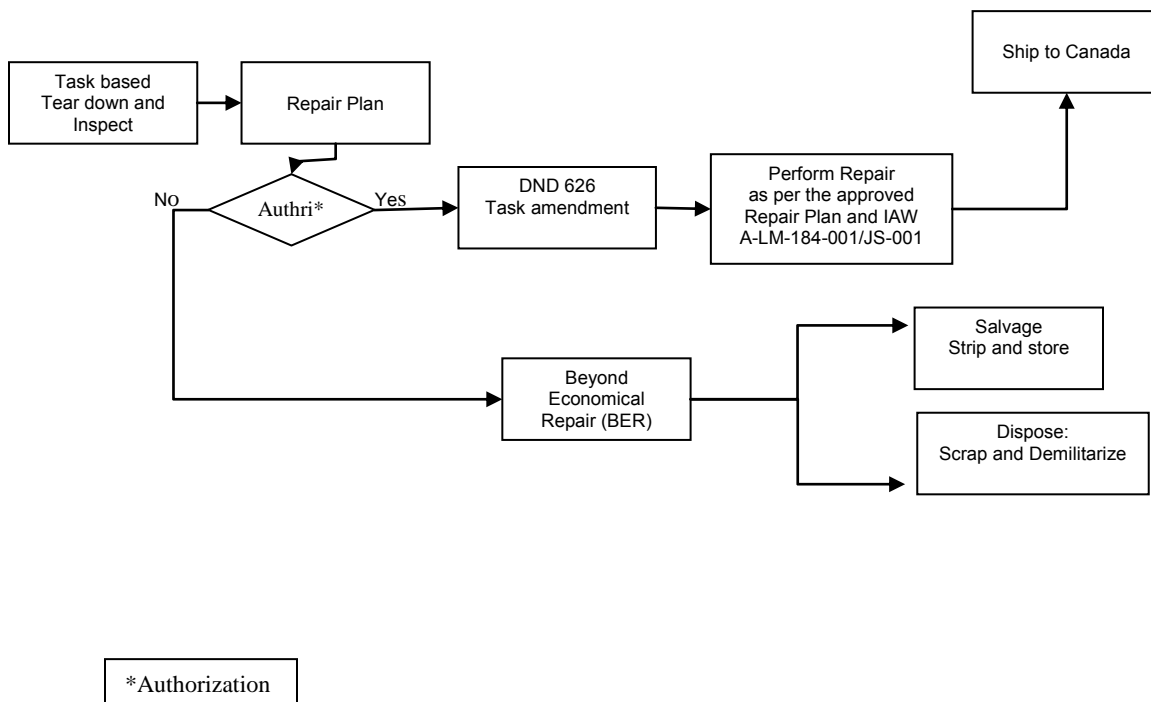
Annex B

STATEMENT OF WORK

APPENDIX BG – MAJOR REPAIR PROGRAM

ATTACHMENT BG-1 – MRP PROCESS FLOW DIAGRAM

## MRP PROCESS



# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex B

STATEMENT OF WORK

APPENDIX BH – MISSION PROFILE



Medium Support Vehicle System  
Standard Military Pattern  
Statement of Work  
Mission Profile

Appendix BH  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

## **1 Appendix BH – Mission Profile**

### **ATTACHMENT BH-1 – MISSION PROFILE**

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex B

STATEMENT OF WORK

APPENDIX BH – MISSION PROFILE

ATTACHMENT BH-1 – MISSION PROFILE

## **1. System description**

1.1 The MSVS SMP Vehicle System will be comprised of:

- 1.1.1 Cargo Variant;
- 1.1.2 Load Handling System Variant;
- 1.1.3 Cargo Variant with Crane;
- 1.1.4 Gun Tractor Variant;
- 1.1.5 Mobile Repair Truck (MRT);
- 1.1.6 Load Handling System Trailer; and
- 1.1.7 Interchangeable Armour Protection System (APS) Kit that can be installed on any vehicle as and when required.

## **2. Intended use**

2.1 The MSVS SMP Vehicle is intended for use worldwide to support preparation and conduct of all types of land based operations. These operations range from disaster relief to combat operations when the Canadian Forces, including Joint or Land forces are ordered to deploy to perform land based operations.

## **3. Missions**

The following missions describe the set of circumstances in which defence forces could expect to be used. The six missions are described in Capability Based Planning and are the basis for the development of plans. Their applicability to MSVS is summarized below.

The SMP MSVS is a key vehicle for all Regular Land Force units. It shall be usable in all missions.

### **3.1. Mission one**

3.1.1 Mission One includes the conduct of daily domestic and continental operations, including in the Arctic and through NORAD. The MSVS SMP will be used in providing assistance to authorities in the conduct of operations within their territory. The capability will enable the transport of troops and supplies to locations, including remote locations, via highways, secondary roads and improvised road such as (but not limited to) cut lines, fire road, trails, etc.

### **3.2 Mission Two**

3.2.1 Mission Two is the support of major international event in Canada, such as the 2010 Olympics. Within this scenario, the MSVS SMP will be used in providing assistance to authorities in supporting operation within their territory. The capability will enable the transport of troops and supplies to accessible and remote locations via highways, secondary roads improvised road such as (but not limited to) cut lines, fire road, trails, etc.

### **3.3 Mission Three**

3.3.1 Mission Three is the response to a major terrorist attack. Within this scenario, the MSVS SMP will be used in providing assistance to authorities in supporting the response to a terrorist attack within their territory. The capability will enable the transport of troops and supplies to accessible and remote locations via highways, secondary roads improvised road such as (but not limited to) cut lines, fire road, trails, etc.

### **3.4 Mission Four**

3.4.1 Mission Four is the support to civilian authorities during a crisis in Canada, such as a natural disaster. Within this scenario, the MSVS SMP will be used as a primary means of Land transportation by Regular Forces units to provide assistance to civil authorities in most disaster relief operations in Canada. The breadth of operations encompasses past events such as: Ice Storm, floods, forest fire, snow storms, etc, as well as contingency planning scenarios (earthquakes, chemical disaster, etc.).

### 3.5 Mission Five

3.5.1 Mission Five is the leading and/or conducting a major international operation for an extended period. The MSVS SMP will be deployed to Support Regular Forces Units in the conduct of the operations by transporting equipment and supplies on and off road.

### 3.6 Mission six

3.6.1 Mission Six is the deployment of forces in response to crisis elsewhere in the world for shorter periods. The MSVS SMP will be deployed to Support Regular Forces Units in the conduct of the operations by transporting equipment and supplies on and off road.

## 4. Geographical

4.1 The MSVS SMP shall perform all its functions with maximum gross loads, including a fully loaded trailer and with all attachments and equipment while maintaining the necessary stability, structural integrity, and operational capability. The MSVS SMP shall perform in the following operating conditions: Severe washboard surfaces and cross country conditions including but not limited to: Rocky surfaces; Plowed fields; Sand; Mud; Flooded terrain; Snow and Ice (including the use of tire chains); Trails; Cut Lines; Light Vegetation; Highway and Secondary roads.

## 5. Concept of Operations

5.1 The MSVS SMP shall support the preparation and conduct of land based operations world wide under all conditions when land forces are called to action. It shall be capable of effective, real time combat support and combat service support for all wheeled combat vehicle and supporting tracked vehicles in near real time.

## 6. Usage pattern

6.1 The MSVS SMP fleet is expected to be used an average of 5,000 kilometers per year, per vehicle. This usage is expected to take place 70% of the time on publicly maintained roads and the remainder on off roads conditions described above. Within the publicly maintained roads, approximately 30% of the total distance will be on paved surfaces, and the remainder will be gravel based and like substances. The table below lists activities that can take place during a mission. This table has been averaged over the life of the vehicle over all activities (operations, training, administrative function, etc) that can take place, using the requested reliability and dependability factors requested in the specifications.

Mission	Unit of Measure	Qty	Comments
a. Time	Duration in hours	10	
b. Length	Distance in kilometers	200	
c. Idling time	Hours	2	
d. Paved road	% of distance	20	Approx 100 km/h
e. Secondary road	% of distance	50	Approx 60 km/h
f. Trails	% of distance	25	Approx 20 km/h
g. X-Country	% of distance	5	Approx 3-5 km/h
h. Night driving	% of time	40	
i. Reverse gear	Times per mission	10	
j. Average speed	km/h	30	
k. Max speed	km/h	110	Dash or unsustained speed up to
l. Fording	Times per mission	1	
m. Trailer towing	% of time	30	

Mission	Unit of Measure	Qty	Comments
n. Shutdown / start	Times per mission	4	
o. Hard braking	Times per mission (deceleration of at least 3.5m/s <sup>2</sup> )	50	
p. Hard acceleration	Times per mission (acceleration of at least 1m/s <sup>2</sup> )	50	
q. Hard turns	Steering limiter hits per mission	75	
r. LHS load cycle	Times per mission	6.4	LHS vehicles only
s. Crane operation	Hour per mission	1	Vehicles with crane only
t. Crane operation	Cycles per mission	12	At maximum capacity
u. All Wheel Drive	Distance in meters per mission	20000	
v. Differentials locked (when applicable)	Distance in meters per mission	1000	
w. Self Recovery	Times per Mission	1	Vehicles with winch only
x. Self Recovery	Distance in Meters per event	100	Vehicles with winch only
y. Suspended tow	Times per Mission	.02	At GVW
z. Suspended tow	Distance in Kilometres per event	80	At GVW
aa. Driving with chains	Maximum occurrence per mission	2	Note: occurs in winter or marginal traction conditions.
ab. Driving with chains	Distance in Kilometres per event	50	Note: Speed reduced IAW OEM and chain manufacturer recommendations, typically in the 15-40 Km/h range.
ac. Camouflaging vehicle	Times per Mission	1	2 personnel climbing on vehicle
ad. Ferrying Ops	Times per year	2	

Table 1. MSVS SMP Duty Cycle

**7. Unusual and severe conditions**

7.1 Light vegetation is described as small trees/brush with a stem diameter less than or equal to 25 mm in diameter at breast height. Driving with tire chains may be required for off-road conditions or where extreme winter road conditions occur. Decision may also be made to use Tire Chains when operational requirement/necessity dictate, having due regard to safety and potential risk involved. Specific activities such as camouflaging vehicles occur more frequently during exercises.

**8. Key Role**

8.1 The MSVS SMP shall be the intrinsic medium weight/lift ground capability for land based units and formations.

**9. Key Tasks**

9.1 The MSVS SMP fleet shall be used for, but not limited to:

- 9.1.1 Transportation of cargo;
- 9.1.2 Transportation of Troops;
- 9.1.3 Integral support (1st line) resupply;
- 9.1.4 Close support resupply;
- 9.1.5 General support resupply;
- 9.1.6 The prime mover for Mobile Repair Team vehicles, equipped with crane and winch
- 9.1.7 The prime mover for ISO sized Special Equipment Vehicle Kits, within the rated capacity of the vehicle;
- 9.1.8 Towing the LHS trailer;
- 9.1.9 Towing of in-service trailers within the rated capacity of the vehicle; and
- 9.1.10 Towing of in-service guns within the rated capacity of the vehicle.

**10.0 Life Cycle**

- 10.1 The MSVS SMP expected average annual usage is 5,000 km.
- 10.2 The MSVS SMP expected lifetime usage is 100,000 km.
- 10.3 The MSVS SMP expected life is 20 yrs.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 - Resulting Contract - ISS

**ANNEX B - STATEMENT OF WORK**

**APPENDIX BI - CONTRACT DATA (CDRL, DIDS)**

## **1. SCOPE**

- 1.1 This Appendix specifies the Deliverable Data required under the Statement of Work (SOW) and the delivery of the data items.
- 1.2 The Contract Data Requirements List (CDRL) specifies the Deliverable Data required and the Data Item Descriptions (DIDs) define data content, preparation instructions, format and intended use of the data.
- 1.3 The CDRL is included at Attachment BI-1 and the DIDs are included at Attachment BI-2.

## **2. CONTRACT DATA REQUIREMENTS LIST (CDRL)**

### **2.1 Precedence of CDRL**

The requirements stated in Blocks 8 through 12 of the CDRL take precedence over any such requirements that may have been identified in the DIDs.

### **2.2 CDRL Layout**

The following describes the layout and interpretation of the CDRL blocks.

- 2.2.1 Block 1A - CDRL Identification Number. Denotes the sequential alphanumerical number assigned to the CDRL item.
- 2.2.2 Block 1B - DID Identification Number. Denotes the DID number which describes the data to be submitted.
- 2.2.3 Block 2 – Title. Denotes the title of the Data Item and corresponds to the title used in the main body of the SOW.
- 2.2.4 Block 3 - SOW Reference. Denotes the specific section(s) of the SOW which request(s) the data or references the Data Item.
- 2.2.5 Block 4 - Office of Primary Interest. Denotes Canada's office responsible for review of the data to determine its adequacy.
- 2.2.6 Block 5 - Acceptance Code. Denotes whether the data is to be submitted for acceptance or review:
  - a. An "A" in Block 5 means that the deliverable shall be submitted for acceptance. The Contractor shall obtain this acceptance before using the delivered data. Acceptance by Canada indicates that the format, clarity and completeness of the deliverable is acceptable and the deliverable has met the intent of the requisite DID; and
  - b. An "R" in Block 5 means that the deliverable will be reviewed by Canada for acceptability of format, clarity and completeness. The data will be considered for information only.
- 2.2.7 Block 6 - Review Period. Denotes the number of calendar days that are required for Canada to approve or review the data item.



2.2.8 Block 7 – Frequency. Denotes the frequency of delivery of the data (see Block 9 for codes to be used).

2.2.9 Block 8 - First Submission. Specifies when the data shall first be submitted (to be read in conjunction with Block 9).

2.2.10 Block 9 - Subsequent Submission. Specifies the required submittal date(s) for any subsequent data deliveries if data is submitted more than once. Submission times may be expressed using the following codes:

ANNLY	Annually
ASGEN	As Generated
ASREQ	As Required
DACA	Days After Contract Award
FDA	Final Design Acceptance
FDR	Final Design Review
MACA	Months After Contract Award
MAFDA	Months After Final Design Acceptance
MNTHY	Monthly
ONE/R	One Time, Revisions as Required
PDR	Preliminary Design Review
QRTLY	Quarterly (every 3 months)
R/ASR	Revisions as Required
SEMI	Semi-annually (every 6 months)
WKLY	Weekly

2.2.11 Block 10 - Distribution and Addressee.

CA	Contracting Authority
TA	Technical Authority
OPI	Office of Primary Interest

2.2.12 Block 11 - Media and Quantity. The media and the number of copies in which the data item is to be delivered. The following codes may be used:

EIE	Data is to be accessible through EIE.
x HC	Hard Copy
x SC	Soft Copy

The "x" represents the number of copies to be delivered.

2.2.13 Block 12 – Remarks. Contains additional or clarifying information for Blocks 1 through 11.

### **3. DATA ITEM DESCRIPTION (DID)**

#### **3.1 DID Layout**

The following describes the layout and interpretation of the DID blocks.

- 3.1.1 Block 1 - Title. Denotes the title of the Data Item and corresponds to the title used both in the main body of the SOW and in the CDRL.
- 3.1.2 Block 2 - Identification Number. Denotes the sequential alphanumerical number assigned to the DID.
- 3.1.3 Block 3 - Description. The description entry presents a concise description of the data content requirements and presents the purpose for which the data is required.
- 3.1.4 Block 4 – Approval Date. Not Used.
- 3.1.5 Block 5 - Office of Primary Interest. Denotes Canada's office responsible for specifying the data requirement.
- 3.1.6 Block 6 - GIDEP Application. Not Used.
- 3.1.7 Block 7 - Applications/Interrelationship. Denotes information assisting in the proper selection and application of the data item. Where appropriate, other data items that have a significant relationship with the Data Item and any special guidance are listed.
- 3.1.8 Block 8 - Originator. Denotes the designation of the DID originator.
- 3.1.9 Block 9 – Applicable Forms. Denotes any forms necessary in preparing the data requirement.
- 3.1.10 Block 10 - Preparation Instructions. Identifies the content and format requirements for data to be prepared.

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 - Resulting Contract - ISS

ANNEX B – STATEMENT OF WORK

APPENDIX BI – CONTRACT DATA (CDRL, DIDs)

ATTACHMENT BI-1 – CONTRACT DATA REQUIREMENTS LIST (CDRL)

PROJECT MANAGEMENT											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-001	SMP- ISS- 001	In Service Support Plan (ISSP)	Anx B, 3.1.1.1.4	ILSM	A	30 days	ONE/R	See Block 12	R/ASR	TA, cc to CA	EIE  2HC
			12. REMARKS Block 8. Draft ISSP to be submitted with Bidder's proposal for evaluation purposes. Canada comments will be presented at the Kick-Off meeting. Final revision to be submitted 1 MACA.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-002	SMP- ISS- 002	Annual Operating Plan (AOP)	Anx B, 3.1.1.1.5	ILSM	A	90 days	ANNLY	See Block 12	See Block 12	TA, cc to CA	EIE  2HC
			12. REMARKS Block 8. Draft AOP to be submitted 90 days prior to the end of the second fiscal year for assessment and negotiation purposes. Canada comments will be presented at the ISSMT. Revised plan to be submitted 15 days after the completion of each AOP negotiations.								

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-003	SMP- ISS-	<b>Long Term Plan (LTP)</b>	Anx B, 3.1.1.1.7	ILSM	A	90 days	BIENNIA LY	See Block 12	See Block 12	TA, cc to CA	EIE 2HC
12. REMARKS Block 8. Draft LTP to be submitted 90 days prior to the end of second fiscal year for assessment and negotiation purposes. Canada comments will be presented at the ISSMT. Revised plan to be submitted 15 days after the completion of each LTP negotiation.  Block 9. Subsequent submissions shall occur every 2 years at the end of Q3.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-004	SMP- ISS-	<b>Meeting Agenda</b>	Anx B, 3.1.1.1.9. 4	ILSM	A	See Block 12	ASREQ	See Block 12	See Block 12	CA, cc to TA	EIE
12. REMARKS Blocks 6, 8 and 9. Meeting Agenda to be submitted for review no later than 10 working days prior to the meeting. Canada will return comments no later than 5 working days prior to the meeting. Revised Meeting Agenda to be resubmitted at least 2 working days prior to the meeting.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY

SMP- ISS-005	SMP- ISS-	<b>Meeting Minutes</b>	Anx B, 3.1.1.1.9. 4	ILSM	A	See Block 12	ASREQ	See Block 12	See Block 12	CA, cc to TA	EIE
			12. REMARKS Blocks 6, 8 and 9. Meeting Minutes shall be submitted for review within 5 working days following each meeting. Canada will provide comments within 5 working days of receipt. Revised Meeting Minutes addressing Canada's comments to be submitted for approval within 2 working days of receipt of comments.								

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-006	SMP- ISS- 006	Master Project Schedule (MPS)	Anx B, 3.1.1.1.1 0	ILSM	A	15 days	See Block 12	1 MACA	ASREQ	TA, cc to CA	EIE  2 HC
			12. REMARKS Block 7. Frequency of MPS deliverable will be monthly (in electronic format) for the first year of the Contract starting at 1 MACA, and As Requested afterwards.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-007	SMP- ISS-	Action Item Log	Anx B, 3.1.1.1.1 1	ILSM	R	5 days	WKLY	See Block 12	See Block 12	TA, cc to CA	EIE
			12. REMARKS Block 8. First submission shall be 5 days after Kick-off meeting. Block 9. The Action Item Log to be updated weekly within the EIE.								
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-008	SMP- ISS- 008	Risk Register	Anx B, 3.1.1.1.1 2	ILSM	R	5 days	MTHLY	See Block 12	See Block 12	TA, cc to CA	EIE

Medium Support Vehicle System  
Standard Military Pattern  
ISS Resulting Contract  
Contract Data  
Contract Data Requirements List

Attachment BI-1 to  
Appendix BI to  
Annex B to Part 8  
Request For Proposal W8476-06-MSMP/L

			<p>12. REMARKS</p> <p>Block 8. First submission shall be 5 working days before first ISSMT meeting.</p> <p>Block 9. The Risk Register to be maintained within the EIE. The Risk Register to be submitted no later than 5 working days prior to each ISSMT.</p>
--	--	--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT	6. REVIEW	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS	10. DIST	11. MEDIA &
SMP- ISS-009	SMP- ISS-	<b>Not used</b>									
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-010	SMP- ISS- 010	<b>Performance Management Plan (PfMP)</b>	Anx B, 3.1.2.1.2	ILSM	A	60 days	ONE/R	30 MACA	R/ASR	TA, cc to CA	EIE  2HC
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-011	SMP- ISS- 011	<b>Services Status Report</b>	Anx B, 3.1.2.1.4	ILSM	See Block 12	15 days	QRTLY	See Block 12	R/ASR	TA, cc to CA	EIE  2HC

Medium Support Vehicle System  
Standard Military Pattern  
ISS Resulting Contract  
Contract Data  
Contract Data Requirements List

Attachment BI-1 to  
Appendix BI to  
Annex B to Part 8  
Request For Proposal W8476-06-MSMP/L

			<p>12. REMARKS</p> <p>Block 5: First delivery of the Service Status Report shall be submitted for acceptance by Canada.</p> <p>Following reports shall be reviewed by Canada.</p> <p>Block 8: First submission of the Service Status Report shall be 3 months after first Vehicle, APS or Trailer delivery, whichever comes first.</p>
--	--	--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-012	SMP- ISS- 012	<b>Technical Problem Management (TPM) Plan</b>	Anx B, 3.4.2.1.1	ILSM	A	30 days	ONE/R	See Block 12	R/ASR	TA, cc to CA	EIE 2HC
12. REMARKS Block 8: TPM Plan shall be delivered the month of first Vehicle, APS or Trailer delivery, whichever comes first.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-013	SMP- ISS- 013	<b>Identification, Shipping and Packaging Data Reports</b>	Anx B, 3.2.1.1.5. 2	ILSM	A	30 days	ASR	ASR	R/ASR	TA, cc to CA	EIE 2HC
12. REMARKS											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-014	SMP- ISS- 014	<b>Monthly Spares Report</b>	Anx B, 3.2.1.1.8	ILSM	R	15 days	MNTHY	See Block 12	R/ASR	TA, cc to CA	EIE 2HC
12. REMARKS Block 8. First submission shall be the month of first spare parts delivery or first Vehicle, APS or Trailer delivery whichever comes first.											

Medium Support Vehicle System  
Standard Military Pattern  
ISS Resulting Contract  
Contract Data  
Contract Data Requirements List

Attachment BI-1 to  
Appendix BI to  
Annex B to Part 8  
Request For Proposal W8476-06-MSMP/L

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-015	SMP- ISS- 015	<b>Materiel Change Notices (MCNs)</b>	Anx B, 3.2.1.1.9	ILSM	A	30 days	ASGEN	ASGEN	R/ASR	TA, cc to CA	EIE  2HC
12. REMARKS											

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-016	SMP- ISS- 016	<b>R&amp;O Repair Plan</b>	Anx B, 3.2.2.2.3	ILSM	A	30 days	ASREQ	ASREQ	R/ASR	TA, cc to CA	2HC EIE
12. REMARKS											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-017	SMP- ISS- 017	<b>R&amp;O Performance Reports</b>	Anx B, 3.2.2.1.3	ILSM	R	15 days	MNTHY	See Block 12	R/ASR	TA, cc to CA	EIE 2HC
12. REMARKS Block 8. First submission shall be the month following the first R&O delivery.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-018	SMP- 018	<b>Consolidated Field Support Services Reports (CFSSR)</b>	Anx B, 3.3.1.2.1	ILSM	R	15 days	MNTHY	See Block 12	R/ASR	TA, cc to CA	EIE 2HC
12. REMARKS Block 8. First submission shall be the month following the first FSR delivery.											

Medium Support Vehicle System  
Standard Military Pattern  
ISS Resulting Contract  
Contract Data  
Contract Data Requirements List

Attachment BI-1 to  
Appendix BI to  
Annex B to Part 8  
Request For Proposal W8476-06-MSMP/L

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-019	SMP- ISS- 019	<b>Not used</b>									

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-020	SMP- ISS- 020	<b>Major Repair Program Reports (MRPR)</b>	Anx B, 3.3.3.3.1	ILSM	R	30 days	ASREQ	See Block 12	R/ASR	TA, cc to CA	EIE  2HC
12. REMARKS Block 8. First submission shall be the end of Quarter of the first MRP delivery.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-021	SMP- ISS- 021	<b>Reliability/Trend Analysis Reports (RTAR)</b>	Anx B, 3.4.3.2.2. 1	ILSM	R	30 days	ASREQ	ASREQ	R/ASR	TA, cc to CA	EIE  2HC
12. REMARKS											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-022	SMP- ISS- 022	<b>Engineering Change Proposal (ECP)</b>	Anx B, 3.4.5.1.3. 1	ILSM	A	See Block 12	ASGEN	ASGEN	R/ASR	TA, cc to CA	EIE  2HC
12. REMAR KS Block 6. Technical Approval or Rejection of Engineering Change Proposals (ECPs) shall be given within the following requirements: a. Emergency ECP: 48 hours; b. Urgent ECP: 30 days; and c. Routine ECP: 90 days											

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT	6. REVIEW	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA &
SMP- ISS-023	SMP- ISS- 023	<b>Request for Deviation/Waiver (RFD/RFW)</b>	Anx B, 3.4.5.1.3. 2	ILSM	A	10 days	ASGEN	ASGEN	R/ASR	TA, cc to CA	EIE  2HC
12. REMARKS											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT	6. REVIEW	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA &
SMP- ISS-024	SMP- ISS- 024	<b>Specification Change Notice-Notice of Revision</b>	Anx B, 3.4.5.1.3. 3	ILSM	A	10 days	ASGEN	ASGEN	R/ASR	TA, cc to CA	EIE  2HC
12. REMARKS											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT	6. REVIEW	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA &
SMP- ISS-025	SMP- ISS- 025	<b>Configuration Status Accounting (CSA) Report</b>	Anx B, 3.4.5.1.4	ILSM	R	15 days	See Block 12	See Block 12	See Block 12	TA, cc to CA	EIE  2HC
12. REMARKS Blocks 7,8 & 9: The Configuration Status Accounting Report, initially provided by the Acquisition Contract, shall be updated when determined necessary or when requested by Canada.											



1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-026	SMP- ISS- 026	<b>Obsolescence Management Report (OMR)</b>	Anx B, 3.4.6.1.2	ILSM	A	30 days	ANNLY	See Block 12	R/ASR	TA, cc to CA	EIE  2HC
12. REMARKS Block 8: First submission shall be the month of the first Vehicle, APS or Trailer delivery, whichever comes first.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-027	SMP- ISS- 027	<b>Equivalent Standards or Parts Justification Report</b>	Anx B, 1.6	ILSM	A	15 days	ASGEN	ASGEN	R/ASR	TA, cc to CA	EIE  2HC
12. REMAR											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-028	SMP- ISS- 028	<b>EIE Plan</b>	Anx B, 3.6.1.2	ILSM	A	30 days	ONE/R	1 MACA	R/ASR	TA, cc to CA	EIE  2HC
12. REMARKS											

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-029	SMP- ISS- 029	<b>Not Used</b>									
12. REMARKS											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-030	SMP- ISS- 030	<b>Not used</b>									
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-031	SMP- ISS- 031	<b>Not used</b>									

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-032	SMP- ISS- 032	<b>Repair and Overhaul (R&amp;O) Candidate Items List</b>	Anx B, 3.2.2.1	ILSM	A	30 days	See Block 12	See Block 12	See Block 12	TA, cc to CA	EIE  2HC
12. REMARKS Blocks 7,8 & 9: The Repair and Overhaul Candidate Items List, initially provided by the Acquisition Contract, shall be updated when determined necessary or when requested by Canada.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT	6. REVIEW	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA &
SMP- ISS-033	SMP- ISS- 033	<b>Configuration Management Plan</b>	Anx B, 3.4.5.1.1	ILSM	A	30 days	See Block 12	See Block 12	See Block 12	TA, cc to CA	EIE  2HC
12. REMARKS Blocks 7,8 & 9: The Configuration Management Plan, initially provided by the Acquisition Contract, shall be updated when determined necessary or when requested by Canada.											

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT	6. REVIEW	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA &
SMP- ISS-034	SMP- ISS- 034	<b>Environmental, Health and Safety Impact Report (EHSIR)</b>	Anx B, 3.5.3	ILSM	A	30 days	See Block 12	See Block 12	See Block 12	TA, cc to CA	EIE  2HC
12. REMARKS Blocks 7,8 & 9: The EHSIR, initially provided by the Acquisition Contract, shall be updated when determined necessary or when requested by Canada.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT	6. REVIEW	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA &
SMP- ISS-035	SMP- ISS- 035	<b>Contractor Capability and Facility Survey</b>	Anx B, 3.5.4	ILSM	A	30 days	See Block 12	See Block 12	See Block 12	TA, cc to CA	EIE  2HC
12. REMARKS Blocks 7,8 & 9: The CCFS, initially provided by the Acquisition Contract, shall be updated when determined necessary or when requested by Canada.											
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT	6. REVIEW	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA &
SMP- ISS-036	SMP- ISS- 036	<b>Not used</b>									

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- ISS-037	SMP- ISS- 037	Contractor-Held Inventory Report	Anx B, Appx BF, 4.6	ILSM	R	30 days	ANNLY	See Block 12	R/ASR	TA, cc to CA	EIE
											2HC
		12. REMARKS Block 8. 30 days after the delivery of first Vehicle, APS or Trailer, whichever comes first.									
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP- IRB-001	SMP- IRB- 001	Industrial and Regional Benefits (IRB) Report	Anx F	IC	R	120 days	ANNLY	See Block 12	R/ASR	TA, cc to CA	EIE
											2HC (see block 12)
		12. REMARKS Block 8. Sixty (60) calendar days after the end of the annual IRB Reporting Period. Block 11. In addition to 2HC, provide 2 x soft copy on CD/DVD.									

1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-  IRB-002	SMP-  IRB-002	Tranche 2 of proposed IRB Report	Anx F	IC	R		ONE /R	12 MACA	R/ASR	CA and IRB Authority	2HC (see block 12)
		12. REMARKS Block 8. Sixty (60) calendar days after the end of the annual IRB Reporting Period.. Block 11. In addition to 2HC, provide 2 x soft copy on CD/DVD.									
1A. CDRL #	1B. DID #	2. TITLE	3. SOW REF	4. OPI	5. ACCEPT CODE	6. REVIEW PERIOD	7. FREQ	8. FIRST SUBMISS	9. SUB. SUBMIS.	10. DIST	11. MEDIA & QTY
SMP-  IRB-003	SMP-  IRB-003	Tranche 3 of proposed IRB Report	Anx F	IC	R		ONE /R	36 MACA	R/ASR	CA and IRB Authority	2HC (see block 12)
		12. REMARKS Block 8. Sixty (60) calendar days after the end of the annual IRB Reporting Period.. Block 11. In addition to 2HC, provide 2 x soft copy on CD/DVD.									

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 - Resulting Contract - ISS

ANNEX B – STATEMENT OF WORK

APPENDIX BI – CONTRACT DATA (CDRL, DIDs)

ATTACHMENT BI-2 – DATA ITEM DESCRIPTIONS (DIDs)

## TABLE OF CONTENTS

DID SMP-ISS-001	In-Service Support Plan.....	3
DID SMP-ISS-002	Annual Operating Plan.....	7
DID SMP-ISS-003	Long Term Plan .....	8
DID SMP-ISS-004	Meeting Agenda.....	10
DID SMP-ISS-005	Meeting Minutes .....	11
DID SMP-ISS-006	Master Project Schedule.....	12
DID SMP-ISS-007	Action Item Log .....	14
DID SMP-ISS-008	Risk Register .....	15
DID SMP-ISS-009	Not Used .....	16
DID SMP-ISS-010	Performance Management Plan.....	17
DID SMP-ISS-011	Services Status Reports .....	19
DID SMP-ISS-012	Technical Problem Management Plan.....	21
DID SMP-ISS-013	Identification, Shipping and Packaging Data Reports .....	23
DID SMP-ISS-014	Monthly Spares Report .....	26
DID SMP-ISS-015	Materiel Change Notices .....	27
DID SMP-ISS-016	Repair and Overhaul Repair Plan.....	28
DID SMP-ISS-017	R&O Performance Report.....	30
DID SMP-ISS-018	Consolidated Field Support Services Report.....	32
DID SMP-ISS-019	Not Used .....	33
DID SMP-ISS-020	Major Repair Program Reports.....	34
DID SMP-ISS-021	Reliability/Trend Analysis Reports .....	35
DID SMP-ISS-022	Engineering Change Proposal.....	36
DID SMP-ISS-023	Request for Deviation/Request for Waiver (RFD/RFW) .....	44
DID SMP-ISS-024	Specification Change Notice/Notice of Revision .....	48
DID SMP-ISS-025	Configuration Status Accounting Report .....	49
DID SMP-ISS-026	Obsolescence Management Report.....	50
DID SMP-ISS-027	Equivalent Standards or Parts Justification Report .....	51
DID SMP-ISS-028	EIE Plan .....	53
DID SMP-ISS-029	Not Used .....	55
DID SMP-ISS-030	Not Used .....	56
DID SMP-ISS-031	Not Used .....	57
DID SMP-ISS-032	Repair and Overhaul Candidate Items List.....	58
DID SMP-ISS-033	Configuration Management Plan .....	59
DID SMP-ISS-034	Environmental, Health and Safety Impact Report .....	61
Annex A – Major Sub-system EHS Impact Table .....		67
Annex B – Table of Hazardous Products .....		68
Annex C-Items Containing Mercury .....		69
Annex D – Environmental Effects Matrix .....		70
Annex E-Material Safety Data Sheets (MSDSs).....		70
Annex F-Listing of Possible EHS Aspects .....		71
Annex G – Acceleration Reduction/Elimination of Toxics (ARET) Substance list .....		74
DID SMP-ISS-035	Contractor Capability and Facility Survey.....	80
DID SMP-ISS-036	Not Used .....	84
DID SMP-ISS-037	Contractor-Held Inventory (CHI) Report.....	85
DID SMP-IRB-001	Industrial and Regional Benefits (IRB) Report .....	90
DID SMP-IRB-002	Tranche 2 of Proposed IRB Transactions .....	92
DID SMP-IRB-003	Tranche 3 of Proposed IRB Transactions .....	93



**DID SMP-ISS-001 In-Service Support Plan**

DATA ITEM DESCRIPTION		
DND Form 1409		
<b>1 Title</b>  In-Service Support Plan (ISSP)	<b>2 IDENTIFICATION NUMBER</b>  SMP-ISS-001	
<b>3 DESCRIPTION/PURPOSE</b>  The In-Service Support Plan (ISSP) details the proposed program to be developed to provide in-service support to SMP Vehicles, APS and Trailers.		
<b>4 APPROVAL DATE</b>  N/A	<b>5 OPI</b>  ILSM	<b>6 GIDEP APPLICABLE</b>  N/A
<b>7 APPLICATION/INTERRELATIONSHIP</b>  Annex B		
<b>8 ORIGINATOR</b>  ILSM	<b>9 APPLICABLE FORMS</b>  N/A	
<b>10. PREPARATION INSTRUCTIONS</b>  10.1. <u>Content requirements.</u> 10.1.1. The ISSP shall be in the Contractor's format, using best commercial practices for charts, tables, matrices, page numbering and document control numbering.  10.1.2. The ISSP shall detail and consolidate the management, administrative procedures, and organisational structure to be used to manage the Work on the contract. The fundamental requirement of the ISSP is to demonstrate the procedures, methods, organisation and lines of communication that will be used by the Contractor to integrate all information on Contractor and subcontractors conduct and progress of the work, and to provide proper visibility.  10.2. <u>Project Management Framework.</u> Describe the Project Management framework or methodology and explain how it will be used to manage and control the contract. Describe how the Contractor's organization and procedures will address and integrate each of the project management requirements as detailed in the SOW. Describe how the Contractor will coordinate and schedule activities, communicate internally and report progress to Canada through reports and reviews.  10.3. <u>Human Resources Management.</u> Describe the Contractor's HR management policies, procedures and mechanisms in place to ensure fully competent HR are available for providing the ISS services to Canada. This must include ISS organisation and interfaces to manage the activities covered by this contract. Identify the Contractor's ISS Manager and main activity managers. Provide statement of MSVS ISS duties for each manager. Include an organization chart that covers, as a minimum, the ISS Project Manager, Contract Manager, Engineering Support Manager, Supply Support Manager, Maintenance/Repair and		

Overhaul Manager, Field Service Manager, Training Support Manager, Contractor Equipment Supportability Team Leader, Information Systems Manager, Performance Manager and Financial Manager.

- 10.3.1. Points of Contact (POC). Identify Points of contact (POC) listed for all significant ISS actions to be implemented. As a minimum, the POC list shall include: position title, responsible organizational work center, mailing address, e-mail and telephone number.
- 10.4. Schedule Management. Describe the procedures the Contractor will use to baseline, track and maintain the schedule and be in accordance with Master Project Schedule (CDRL SMP-ISS-006/DID SMP-ISS-006).
- 10.5. Procurement Management. Identify major subcontractors and describe their areas of responsibility. Describe Contractor policies, practices and procedures to be employed for procurement and subcontract management.
- 10.5.1. Acquisition and ISS Contracts. Show the relationship between the Acquisition and ISS organizations and how they interact.
- 10.5.2. PMO MSVS ISS/ILS Team. Describe the relationship between the Contractor ISS organization and the PMO MSVS ISS/ILS Team.
- 10.5.3. Equipment Management Team (EMT). Describe the relationship between the Contractor ISS organization and the DND EMT.
- 10.6. Quality Management. Describe how the Contractor will conform to the specified quality requirements of the Contract and specify how the required quality activities are to be carried out, including quality assurance of subcontractors.
- 10.6.1. Describe how the Contractor will provide the Quality Assurance Representative (QAR) with the accommodation and facilities required for the proper accomplishment of GQA and any assistance required by the QAR for evaluation, verification, validation, documentation or release of product.
- 10.6.2. Describe the Contractor's procedure to notify the QAR of non-conforming product received from a subcontractor when the product has been subject to GQA.
- 10.7. Data Management. Describe how the Contractor will manage all data required under the contract to ensure accuracy, currency of information and timeliness of submission including:
- Control;
  - Distribution;
  - Storage;
  - Retrieval;
  - EIE Data Management;
  - Publications Management;
  - Technical Data Management; and
  - Data Management Organization.
- 10.7.1. Describe the relationship between the Contractor Data Management and Configuration Management organizations.
- 10.8. Performance Management. Describe the procedures to be employed to manage performance against the performance standards. Describe how the Contractor will communicate performance status through the EIE dashboard and performance trend analysis reports. Describe the procedures for taking necessary corrective action to bring performance up to standard.

- 10.9. Technical Problem Management (TPM). Describe the TPM process, capability and activities. Specifically describe :
- The technical data that will be required to be collected to fully describe an instance of a technical problem;
  - How the Contractor will enable Contractor and DND personnel involved in the operation or support of the Vehicle, APS and Trailer to expeditiously notify the applicable DND and Contractor authorities of the occurrence of a new technical problem; and
  - How investigation of technical problems will be prioritized, and routed to the appropriate Contractor subject matter expert authorities for investigation.
- 10.10. Cost Control. Describe how the Contractor will carry out cost control for all In-Service Support activities to ensure that total costs remain within approved limits.
- 10.11. Field Service Representative (FSR) Support. Describe how the Contractor will carry out FSR support including:
- Tasking;
  - Reporting;
  - Use of DND On-site Facilities;
  - Relationship to DND On-Site Management and Staff; and
  - Relationship to Performance Management.
- 10.11.1. Describe procedures for obtaining DND technical assistance or coordination concerning engineering support problems.
- 10.12. Major Repairs. Describe how the Contractor will carry out major repairs under the contract including:
- Notification;
  - Responsibility for Damage;
  - Pickup;
  - Delivery/TAT;
  - Assessment;
  - Repair;
  - Warranty; and
  - Relationship to Performance Management.
- 10.13. Supply Support. Describe the Contractor's Supply Support organization and infrastructure, including the MSVS Supply Chain. Describe how the Contractor will carry out Supply Support for the MSVS including:
- Contract or Agreements;
  - Sparing;
  - Repair and Overhaul;
  - TAT;
  - Warranty;
  - Pickup;
  - Delivery; and
  - Relationship to Performance Management.
- 10.14. Obsolescence. Identify the applicable criteria, procedures and mechanisms that will be used for disposition of non-serviceable, obsolete, salvaged, or excess equipment and outline any specific directions.

10.15. Training Support. Describe how the Contractor will carry out Training Support including:

- Training Organization;
- MSVS Training Program;
- On the Job Training;
- Relationship to DND Training Staff and Students; and
- Relationship to Performance Management.

10.16. Engineering Support. Describe how the Contractor will carry out Engineering Support including:

- Engineering Support Organization;
- Engineering Support Taskings;
- Engineering Management;
- System and Design Engineering;
- Maintenance Software Support;
- Logistics Engineering including
  - Reliability and Maintainability;
  - Technical Publications Maintenance;
  - Technical Data Maintenance;
- Configuration Management; and
- Relationship to Performance Management.

10.17. Support to PMO MSVS and EMT. Describe how the Contractor will carry out support to the PMO and the EMT including:

- Contractor Personnel Qualifications;
- Contractor Personnel Duties;
- Tasking;
- Reporting;
- Use of DND EMT facilities;
- Relationship of Contractor EMT organization to DND EMT organization; and
- Relationship to Performance Management.

10.18. Packaging, Handling, Storage, and Transportation (PHST).

Identify and describe general and any special handling requirements for moving (loading, unloading, transporting) or storing the system or equipment, components and spare parts, such as preservation, temperature control, humidity control, protection from shock or radiation, security requirements, and similar information. Identify applicable references for sanitization and/or declassification prior to placing materials in transit.

10.19. Environmental, Health and Safety (EHS) Management. Describe how the Contractor will carry out, identify and document the environmental safety and health impact of the system/service provided by the Contractor (and subcontractors) throughout the various life cycle phases (operation and maintenance, and demilitarization and disposal) and the mitigation measures required to reduce or eliminate significant environmental safety and health risks.

10.20. Special Circumstances. Describe how the Contractor will handle special circumstances including:

- Support to Deployed Operations; and
- Hazardous Conditions.

**DID SMP-ISS-002 Annual Operating Plan**

<b>DATA ITEM DESCRIPTION</b>		
DND Form 1409		
<b>1 Title</b>  Annual Operating Plan (AOP)		<b>2 IDENTIFICATION NUMBER</b>  SMP-ISS-002
<b>3 DESCRIPTION/PURPOSE</b> The AOP for a given fiscal year identifies all activities to be carried out by the Contractor during that year. The AOP includes business and financial details of the support activities for the upcoming fiscal year. The AOP also provides a summary of the previous year's fleet activities and a forecast of activities for the following year. The AOP does not constitute authorization to do work. After final acceptance of the AOP, the TA will authorize the Work identified in the AOP under individual Task Directives.		
<b>4 APPROVAL DATE</b>  N/A	<b>5 OPI</b>  ILSM	<b>6 GIDEP APPLICABLE</b>  N/A
<b>7 APPLICATION/INTERRELATIONSHIP</b>  Annex B		
<b>8 ORIGINATOR</b>  ILSM		<b>9 APPLICABLE FORMS</b>  N/A
<b>10 PREPARATION INSTRUCTIONS</b>  10.1 The AOP shall be in Contractor format.  10.2 The period of the active AOP shall be one FY, beginning 01 April YYYY and ending 31 March YYYY+1. (The initial AOP may be for a period shorter than one year in order to align the AOP cycle to that of Canada's Fiscal Year).  10.3 The following shall be included as part of the AOP: <ul style="list-style-type: none"> <li>a. A detailed summary of the previous year's projected and actual activities and actual costs to include, but not be limited to, labour hours and costs, material costs, and subcontract costs;</li> <li>b. The plans, schedules and planned costs for the active year;</li> <li>c. A high level view of the following year of the AOP based on the strategic level inputs from the Long Term Plan (LTP); and</li> <li>d. Review and update of Annex C - Spare parts table.</li> </ul> 10.4 <u>Additional Work Requests (AWR)</u> . The AOP shall identify and detail any additional work requests that are not included in the Core Work scope of the contract.		

**DID SMP-ISS-003 Long Term Plan**

DND Form 1409		
DATA ITEM DESCRIPTION		
<b>1 Title</b>  Long Term Plan		<b>2 IDENTIFICATION NUMBER</b>  SMP-ISS-003
<b>3 DESCRIPTION/PURPOSE</b>  The Long Term Plan (LTP) is the Contractor's plan and recommendations regarding maintenance, upgrade and refurbishment activities to achieve cost effective long-term logistics support, over the Estimated Life Expectancy (ELE).		
<b>4 APPROVAL DATE</b>  N/A	<b>5 OPI</b>  ILSM	<b>6 GIDEP APPLICABLE</b>  N/A
<b>7 APPLICATION/INTERRELATIONSHIP</b>  Annex B		
<b>8 ORIGINATOR</b>  ILSM		<b>9 APPLICABLE FORMS</b>  N/A
<b>10 PREPARATION INSTRUCTIONS</b>  10.1 The LTP shall be prepared in Contractor format.  10.2 The LTP shall describe the Contractor's long-term plan for sustaining the operational capability of the MSVS fleet to ELE, focusing on a five-year assessment of the activities recommended to be conducted under the Annual Operating Plan. Canada will provide inputs to the LTP during its development and during each AOP revision.  10.3 The LTP shall include an estimate of the corrective and preventive maintenance for the fleet for the following five (5) years (Note: estimates for the active year will be provided in the AOP).  10.6 The LTP shall detail any planned or recommended Additional Work not covered under the scope of the Core Work of the contract.  10.7 The LTP shall address the ISS requirements associated with the following operational, technical and fiscal environment concerns:  a. Life Cycle Material Management;  b. Obsolescence;  c. Major operations and exercises;		

- d. Operating environment changes (e.g. noise, pollution, elevation, daily operating temperatures, etc);
- e. Major modification programs;
- f. Major capital programs;
- g. ELE extensions; and
- h. Initiatives that could result in savings to the “cost of ownership” for the fleet.

**DID SMP-ISS-004 Meeting Agenda**

DATA ITEM DESCRIPTION		
<b>1. TITLE</b> Meeting Agenda		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-004
<b>3. DESCRIPTION/PURPOSE</b> Meeting Agenda provide an outline of purpose, objectives or problem areas to be formally discussed at meetings.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b>
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B		
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b>
<b>10. PREPARATION INSTRUCTIONS</b>  10.1. Meeting Agendas shall be prepared in the Contractor's format. 10.2. Meeting Agendas shall include, as a minimum, the following: 10.2.1 Meeting venue, date, time, location and attendees; 10.2.2 Scope, purpose and objectives of the meeting; 10.2.3 Contractor's presentations as an attachment to the agenda; 10.2.4 Topics for discussion; and 10.2.5 Need for any Government/Contractor documentation to be presented at the meeting.		



**DID SMP-ISS-005 Meeting Minutes**

DATA ITEM DESCRIPTION		
<b>1. TITLE</b> Meeting Minutes		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-005
<b>3. DESCRIPTION/PURPOSE</b> Meeting Minutes record significant discussion and document decisions taken at meetings.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b>
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B		
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b>
<b>10. PREPARATION INSTRUCTIONS</b>  10.1. Meeting Minutes shall be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, shall become the standard for future submissions.  10.2. Meeting Minutes shall include, as a minimum, the following: 10.2.1 List of all attendees detailing title and contact information; 10.2.2 Record of discussion of all items tabled; 10.2.3 Record of decisions taken; 10.2.4 Action Items & responsibility; 10.2.5 Target date of completion of Action Items; 10.2.6 Proposed date, time and location of next meeting; 10.2.7 Signature blocks for both Contractor and Canada responsible representatives; and 10.2.8 Copies of essential data and information tabled at the meeting.  10.3 Meeting Minutes shall include a disclaimer that the minutes are a record of discussions only and do not constitute approval for contractual changes.		

**DID SMP-ISS-006 Master Project Schedule**

<b>1. TITLE</b> Master Project Schedule (MPS)		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-006	
<b>3. DESCRIPTION/PURPOSE</b> The Master Project Schedule (MPS) details the sequencing, activity duration, dependencies, schedule of all events against a calendar time base, milestones and all WBS activities for the requirements of the Contract.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. The Master Project Schedule (MPS) shall depict the entire scope of the project, including milestones, major events and major deliverables for the duration of the contract. The MPS shall detail the schedule of all events against a calendar time base, milestones and all WBS activities that must occur to meet the objectives and requirements of the contract.</p> <p>10.2 The MPS shall clearly depict:</p> <p>10.2.1 The sequence, duration and completion dates of all deliverable items;</p> <p>10.2.2 Project tasks down to the work package level;</p> <p>10.2.3 Project milestones; and</p> <p>10.2.4 Proposed payment milestones.</p> <p>10.3. The MPS shall include, but not be limited to, the activities and Milestones pertaining to:</p> <ul style="list-style-type: none"> <li>a. Project Management;</li> <li>b. Progress Review Meetings;</li> <li>c. Deliverable preparation and delivery;</li> <li>d. Annual Operating Plan (AOP) key activities;</li> <li>e. Spares Delivery;</li> <li>f. Repair and Overhaul (R&amp;O) Delivery ;</li> <li>g. Major Repair Program;</li> <li>h. Technical Problem Management;</li> <li>i. FSR Support;</li> <li>j. Technical Publications;</li> </ul>			

- k. Training activities;
- l. Configuration Management;
- m. Obsolescence Management; and
- n. Electronic Information Environment.

10.4. The MPS shall clearly portray the inter-dependencies among all ISS tasks, events, activities and deliverables.

10.5. The MPS shall clearly portray the inter-dependencies links among key ISS and Acquisition Contract tasks, events, activities and deliverables.

10.6. The requirements for delivery or preparation of GSM, GFE, and GFI, including equipment and facilities, or other tasks/obligations of Canada shall be clearly indicated.

10.7. The MPS shall clearly portray progress against a baseline. Updates to the MPS shall clearly indicate actual progress to a specific date against the schedule baseline, and changes in activity.

10.8. The MPS shall clearly show a "Time Now" line, which indicates the point in time at which the schedule status pertains.

10.9. The critical path shall be clearly identified.

**DID SMP-ISS-007 Action Item Log**

<b>1. TITLE</b> Action Item Log		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-007	
<b>3. DESCRIPTION/PURPOSE</b> The Action Item Log consists of itemized and up-to-date records of all Contractor and Canada action items.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM		<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The Action Item Log shall be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, shall become the standard. 10.2 The Action Item Log shall contain the itemized records of action items and shall include, as a minimum: 10.2.1 Identification number; 10.2.2 Action item description; 10.2.3 References to documents, minutes, reports or activity; 10.2.4 Date opened; 10.2.5 Action addressee; 10.2.6 Status; 10.2.7 Target date for completion, impact of delay in completion, and actual date closed; and 10.2.8 Resolution.			

**DID SMP-ISS-008 Risk Register**

<b>1. TITLE</b> Risk Register		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-008	
<b>3. DESCRIPTION/PURPOSE</b> The Risk Register documents identified risks and is used for monitoring and controlling project events that could affect the achievement of project objectives.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM		<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The Risk Register shall be prepared in the Contractor's format. The format of the first submission will be subject to approval by Canada, and once approved, shall become the standard. 10.2 The Risk Register shall rank the risks in order of severity and shall include, as a minimum: 10.2.1 Name and Description of the risk including Risk Statement and cause and effect; 10.2.2 Impact (to include dollar value or impact on schedule), Likelihood and Severity; 10.2.3 Timeframe in which the risk is expected to occur; 10.2.4 Risk response and mitigation strategies including contingency measures (to include costs) with regards to the risk area (Scope, Cost, Schedule) if the risks were to occur; 10.2.5 Residual risk severity assessment; and 10.2.6 Risk Identification Number.			

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract -ISS  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

**DID SMP-ISS-009 Not Used**

**DID SMP-ISS-010 Performance Management Plan**

<b>1. TITLE</b> Performance Management Plan (PfMP)		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-010	
<b>3. DESCRIPTION/PURPOSE</b> The Performance Management Plan establishes, provides and maintains a system to manage the Contractor's performance. This includes the planning required to ensure that support services are designed to satisfy performance requirements specified in the Performance Measurement portion of the SOW.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 General The Performance Management Plan (PfMP) shall be prepared in Contractor format. 10.2 Content 10.2.1 Introduction 10.2.1.1 Purpose. This section of the PfMP shall describe the purpose of the Plan. 10.2.1.2 Objectives. The PfMP shall provide the objectives, which are required for the Contractor to achieve the performance based requirements, as specified in the Performance Measurement portion of the SOW. 10.2.1.3 Scope. This section of the PfMP shall clearly identify the scope of performance management (PfM) work, and as necessary identify those areas which are not in scope but are commonly misinterpreted (for example interfaces with other systems, services or products). 10.2.1.4 Assumptions. This section of the PfMP shall identify any assumptions the Contractor is making that have a bearing on its ability to provide PfM service. 10.2.1.5 Constraints, Policies and Standards. This section of the PfMP shall address the constraints, policies and standards of either Canada or the Contractor that must be satisfied or adhered to in the Contractor's establishment and provision of a PfM capability. 10.2.1.6 Overview. This section shall: a. Provide an overview of the purpose and objectives of the PfM system relative to performance requirements specified in the ISS SOW and Appendix BB;			

b. Identify and describe the key functions of Performance Management and its major enabling systems;

c. Identify and describe major interfaces between systems that are required to enable the PfM system; and

d. Identify and describe the major interfaces between the PfM system and DND.

10.2.2 Organization and Management. This section shall describe the performance measurement related responsibilities of the Contractor and interfaces both within the Contractor organization and with Canada.

10.2.3 Performance Measurement and Monitoring.

10.2.3.1 Performance measurement. This section shall provide, for each metric identified in the ISS SOW or Appendix BB:

a. a definition for the metric including any associated equations and its terms;

b. an indication of the minimum levels of performance expected to be satisfied in accordance with the ISS SOW and Appendix BB, or for metrics not specified by Canada, as set by the Contractor;

c. a description of how levels of performance will be measured;

d. a description of how TAT will be captured and reported to DND;

e. a description of how the Contractor will ensure the design of the performance report (CDRL ISS-011 and DID ISS-011) will satisfy the requirements and how will data be presented in the performance report; and

f. a description of how the Contractor will determine the source data which will be required by the PfM system for the calculation of achieved levels of performance metrics in compliance with the requirements specified in the ISS SOW and Appendix BB, and the source systems from which that data should be extracted.

10.2.3.2 Performance Monitoring.

This section shall explain how the Contractor will monitor the current levels of each of the performance metrics identified in the SOW and Appendix BB, and any other metrics the Contractor deems necessary.

10.2.3.3 Performance Measurement Enablement. This section shall describe, in detail, the following:

10.2.3.3.1 A description of the processes that the Contractor will follow for developing, maintaining and validating the steps required to be processed to ensure:

a. the levels of performance calculated for each metric is done correctly;

b. performance alerts are only triggered when significant changes in levels of performance occur; and

c. isolated root causes associated with a significant change in performance are appropriate to the performance metric in question.

10.2.3.3.2 A summary, for each performance metric, of the calculation steps to be used for performance measurement, alert triggering and root cause analysis.

10.2.3.4 Performance Reporting. This section shall describe the performance information that will be reported to Canada, and the frequency of such reporting.

10.2.3.5 Performance Data Issue Identification and Resolution. This section shall describe the Contractor's approach to identifying and resolving disagreements associated with recorded performance data.



**DID SMP-ISS-011 Services Status Reports**

<b>1. TITLE</b> Services Status Reports		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-011	
<b>3. DESCRIPTION/PURPOSE</b> The Service Status Report provides an update on the Contractor's performance.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 Service Status Reports shall be produced in Contractor's format. 10.2. Identify the service period that is covered. 10.3. Summarize the work performed during the reporting period consisting of: <ul style="list-style-type: none"> <li>a. Highlights;</li> <li>b. Critical Watch items;</li> <li>c. Identification of actual or potential program problems or delays with recommendation on how to proceed;</li> <li>d. Performance implications;</li> <li>e. Engineering Performance Summary;</li> <li>f. ECP, CCP, RFD and RFW, Summary/Status chart;</li> <li>g. Transferred activities from Acquisition contract;</li> <li>h. Summary of known Obsolescence Management issues; and</li> <li>i. Performance Exception List (PEL).</li> </ul> 10.4 Starting at Year 4, the report shall display performance metrics data as a 4 tiered performance report as explained below (paragraphs 10.5 to 10.8). 10.5 Tier 1 shall display high level data: performance level for each metric for reported month and number of months at exceeds standard. Incentives and disincentives for each metric for reported quarter and cumulative shall be reported on Tier 1 of the performance report. 10.6 Tier 2 shall include percent delivery on time and oldest past due by days for			

the current reporting period consisting of performance metrics in the following areas:

- a. Program Management (Survey Results);
- b. Contract management (Data Items delivery)
- c. Task performance;
- d. Technical Problem Management;
- e. Spares performance;
- f. Repair & Overhaul performance; and
- g. Major Repair Program performance.

10.7 Status Reporting for the current period contained in Tier 3 of the performance report (delivery/performance for the current month, In process status, Past due status) for the following:

- a. Repair & Overhaul;
- b. Spares delivery;
- c. Technical Problem Management;
- d. Major Repair Program;
- e. Elements of survey
  - i. Program Management – Coordination Management;
  - ii. Project Performance Management;
  - iii. Task Management;
  - iv. Supply Support;
  - v. Engineering Support; and
  - vi. EIE.
- f. Program Management Survey.

10.8 Status Reporting for the backlog items for current period contained in Tier 4 for the following:

- a. R&O backlog;
- b. Spares delivery backlog;
- c. MRP backlog;
- d. Task delivery backlog; and
- e. Contract Management backlog.

10.9 Starting at year 4, the performance report shall display the following for each specified PB metric requirement, for each of the Performance Calculation Timeframes specified in Performance Based Metrics Appendix BB:

- a. a comparison of the current versus specified or allocated level of performance;
- b. an indicator as to whether the achieved level of performance is on a negative, neutral or positive trend; and
- c. a forecast of the level of performance for 4 and 12 months into the future.

10.10 Program Calendar- covering period of 2 quarters (current and next):

- a. Data Items and Deliverables;
- b. Meetings and;
- c. Significant Program milestones.

10.11 Status Reporting on Publications including number of revisions since last issue (or re-issue).

**DID SMP-ISS-012 Technical Problem Management Plan**

<b>1. TITLE</b> Technical Problem Management Plan		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-012	
<b>3. DESCRIPTION/PURPOSE</b> The Technical Problem Management Plan describes the Contractor's plan for the management of the Contractor's effort required to identify, investigate and resolve SMP technical problems.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM		<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 The Technical Problem Management (TPM) Plan shall be prepared in Contractor format. 10.2 The TPM Plan shall include: 10.2.1 Introduction. This section shall include: 10.2.1.1 Purpose, Scope and Objectives. 10.2.1.2 Assumptions. 10.2.1.3 Constraints, Policies and Standards. 10.2.1.4 Interrelationships 10.2.1.5 Definitions and Acronyms. 10.2.2. Progress Reporting. This section shall describe how the Contractor will monitor and communicate the status of progress of investigations into, and resolution of, reported technical problems. 10.2.3 TPM Technical Process, Capability and Activities Description. 10.2.3.1 Technical Problem Identification. This section shall include a description of: a. The technical data that will be required to be collected to fully describe an instance of a technical			

problem;

b. How the Contractor will enable Contractor and DND personnel involved in the operation or support of the Vehicle, APS and Trailer to expeditiously notify the applicable DND and Contractor authorities of the occurrence of a new technical problem; and

c. How investigation of technical problems will be prioritized, and routed to the appropriate Contractor subject matter expert authorities for investigation.

10.2.3.2 Technical Problem Investigation. This section shall include a description of:

a. The methods and capabilities that the Contractor will employ to isolate cause(s) for specific instances of a reported technical problem;

b. how the Contractor will analyze information to associate organizational accountability for resolution of the technical problem; and

c. the methods and capability the Contractor will employ to quantify the impact of a reported technical problem on:

i. operational capability;

ii. equipment and Contractual performance requirements;

iii. DND resource requirements;

iv. safety requirements;

v. other support system resource requirements; and

vi. other parameters, capabilities or resources as may be proposed by the Contractor.

10.2.3.3 Solution Options Development. This section shall include a description of the process that will be followed and activities performed to develop solution options, and to identify the best solution.

10.2.3.4 Problem Solution Validation. This section shall include a description of:

a. The process that will be followed and activities performed to implement an approved solution option for each class of technical problems; and

b. A description of the types of actions that the Contractor will perform to verify that an implemented solution has resolved a particular problem.

**DID SMP-ISS-013 Identification, Shipping and Packaging Data Reports**

DATA ITEM DESCRIPTION			DND Form 1409
<b>1 Title</b>		<b>2 IDENTIFICATION NUMBER</b>	
Identification, Shipping and Packaging Data Reports		SMP-ISS-013	
<b>3 DESCRIPTION/PURPOSE</b>			
Identification, Shipping and Packaging Data Reports describe Identification, Shipping and Packaging data requirements for items to be shipped to or stored at a Canadian facility (such as spare parts, bulk items, repair parts, special tools, support equipment, test, measurement, diagnostics and training equipment).			
<b>4 APPROVAL DATE:</b> N/A		<b>5 OPI:</b> ILSM	<b>6 GIDEP APPLICABLE:</b> N/A
<b>7 APPLICATION/INTERRELATIONSHIP:</b> Annex B			
<b>8 ORIGINATOR</b>		<b>9 APPLICABLE FORMS</b>	
ILSM		D-LM-008-001/SF-001, Packaging Instructions;  D-LM-008-011/SF-001, Preparation and use of Packaging Requirements Codes;  D-LM-008-015/SF-000, Piezoelectric Crystals;  D-LM-008-026/SF-001, Gaskets/O-rings;  D-LM-008-030/SF-001, Hoses;  D-LM-008-035/SF-001, ESD Sensitive;  D-LM-008-036/SF-000, DND's Minimum Requirements;  D-LM-008-037/SF-000, Antifriction Bearings;  D-84-001-007/SF-001 General Purpose Containers - Electronic Assemblies; and  DND Form CF 271.	
<b>10 PREPARATION INSTRUCTIONS</b>			
10.1 Provide the following data for newly introduced items for which the information has not already been provided in the Acquisition contract: 10.1.1. Item Identification: <ul style="list-style-type: none"> <li>a. Item Name/ Description (DED 182) (GEIA 2790)</li> <li>b. Reference (Manufacturer's Original Part) Number (DED 337) (GEIA 4400)</li> <li>c. NATO Supply Code for Manufacturers (NSCM)/Commercial and Government Entity (CAGE) code (DED 046) (GEIA 1520)</li> </ul>			

- d. NATO Stock Number (if assigned) (DED 253) (GEIA 3520)
  - e. Original Batch/Lot Number;
  - f. Serial Number;
  - g. Current Part Number; and
  - h. Current Batch/Lot Number.
- 10.1.2. Shipping Data:
- a. Contract Number;
  - b. Contract Line Item Number (CLIN);
  - c. Ship-To Location;
  - d. Ship Date;
  - e. Unit of Purchase; and
  - f. Price per Unit of Purchase.
- 10.1.3. Packaging Data:
- a. Unit Pack Size (length, width, height or depth) (meters) (DED 494) (GEIA 2890)
  - b. Volume
  - c. Unit Pack Weight (kilograms) (DED 494) (GEIA 5830)
  - d. Packaging or Packing Level Code (A, B, C) (DED 283) (GEIA 3410)
  - e. Hazardous Code (Regulated/Non-regulated) (DED 154) (GEIA 2370)
  - f. Packaging Instructions when packaging IAW D-LM-008-001/SF-001.
  - g. Special packaging instruction (for items on Special PHST Consideration Items List) (DED 396) (GEIA 4920) Special Reusable Container List; and
  - h. Shelf Life Data (if applicable)
    - i. Date of manufacture;
    - ii. Shelf-life expiry date; and
    - iii. Storage environment restrictions such as no freezing, no sunlight.

**Notes:**

1. To reduce the need for redundant data, similar items may be grouped with the same packaging data applying to the group; and
2. The Canadian Forces Supply System requires size in meters and weight in kilograms.

**PACKAGING INSTRUCTIONS**

10.2 Packaging Data must be provided in accordance with requirements of D-LM-008-011/SF-001 to provide the data necessary to complete DND Form CF 271.

10.3 In the exceptional case when the packaging of an item cannot be properly described by the coding in D-LM-008-011/SF-001 or by general specifications, it must be described and illustrated using sketches or drawings, etc.

10.4 Data must be provided for every procurable item available which has a provisioning unit of measure price equal or greater than three hundred dollars (\$300) Canadian.

10.5 Data must be provided for every new to DND line item ordered by DND through the Contractor which has a provisioning unit of measure price equal or greater than three hundred dollars (\$300) Canadian.

10.6 Ordered items must have priority over all other items requiring data except as follows:

- a. Procurable items with a provisioning unit of measure price less than \$300 and consumable items which

have a line item value of less than \$300 unless that item is included in the Special PHST List;

b. Items packaged in accordance with:

- (1) D-LM-008-015/SF-000, Piezoelectric Crystals;
- (2) D-LM-008-026/SF-001, Gaskets/O-rings;
- (3) D-LM-008-030/SF-001, Hoses;
- (4) D-LM-008-035/SF-001, ESD Sensitive;
- (5) D-LM-008-036/SF-000, DND's Minimum Requirements;
- (6) D-LM-008-037/SF-000, Antifriction Bearings; and
- (7) D-84-001-007/SF-001 General Purpose Containers - Electronic Assemblies.

In these instances, a list of items must be created for each specification.

**DID SMP-ISS-014 Monthly Spares Report**

DATA ITEM DESCRIPTION		
<b>1. TITLE:</b> Monthly Spares Report	<b>2. IDENTIFICATION NUMBER:</b> SMP-ISS-014	
<b>3. DESCRIPTION/PURPOSE</b> This report is used to monitor the delivery progress and to identify and correct any problems which will adversely affect timely delivery.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b>
<b>7. APPLICATION/INTERRELATIONSHIP :</b> Annex B		
<b>8. ORIGINATOR :</b> ILSM		<b>9. APPLICABLE FORMS :</b>
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The Monthly Spares Report shall provide a matrix for the following material in Microsoft Excel Format: 10.1.1. Interim Spares List (ISL); 10.1.2. Initial Provisioning (IP) Spares; 10.1.3. Replenishment Spare Parts; and 10.1.4. Special Tools Test Equipment (STTE).  10.2. The report shall be prepared in the Contractor's format.  10.3. A table shall be included in the report that provides the following information for item(s) ordered under each call-up/purchase order:  10.3.1. Line Number (CLIN); 10.3.2. Description; 10.3.3. NSN; 10.3.4. QTY ordered for previous buy; 10.3.5. QTY shipped for previous buy; 10.3.6. Unit Price for previous buy; 10.3.7. QTY ordered; 10.3.8. QTY shipped; 10.3.9. Order date; 10.3.10. Due date; 10.3.11. Ship date; 10.3.12. Delivery date; 10.3.13. Order No.; 10.3.14. Part No.; 10.3.15. QTY Backorder; 10.3.16. Unit Price; 10.3.17. Catalogue Price; 10.3.18. Extended Price; and 10.3.19. Parts Orders Credits.  10.4. The report shall have the following minimum information in addition to that provided in 10.3: 10.4.1. Title; 10.4.2. Reporting Period; 10.4.3. Contract Number; and 10.4.4. Date of delivery.		



**DID SMP-ISS-015 Materiel Change Notices**

DATA ITEM DESCRIPTION		
1. <b>TITLE</b> Materiel Change Notices (MCNs)		2. <b>IDENTIFICATION NUMBER</b> SMP-ISS-015
3. <b>DESCRIPTION/PURPOSE</b>  Material Change Notices (MCNs) provide the information required whenever changes to provisioning documentation occur.		
4. <b>APPROVAL DATE</b>  N/A	5. <b>OFFICE OF PRIMARY INTEREST</b>  ILSM	6. <b>GIDEP APPLICABLE</b>
7. <b>APPLICATION/INTERRELATIONSHIP</b> Annex B		
8. <b>ORIGINATOR</b>  ILSM		9. <b>APPLICABLE FORMS</b>  D-01-100-215/SF-000
10. <b>PREPARATION INSTRUCTIONS</b>  10.1 <b>Format and Content.</b>  10.1.1 Material Change Notice (MCN) shall be prepared IAW the latest issue of DND Specification D-01-100-215/SF-000 - Preparation of Material Change Notice.		

**DID SMP-ISS-016 Repair and Overhaul Repair Plan**

DATA ITEM DESCRIPTION		
<b>1. TITLE</b> Repair and Overhaul Repair Plan	<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-016	
<b>3. DESCRIPTION/PURPOSE</b> The R&O Repair Plan identifies for each R&O repair plan.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b>
<b>7. APPLICATION/INTERRELATIONSHIP:</b> Annex B		
<b>8. ORIGINATOR:</b> ILSM		<b>9. APPLICABLE FORMS:</b>
<b>10. PREPARATION INSTRUCTIONS</b>  10.1. For each R&O item the Repair Plan shall provide the following information:  10.1.1. Component name, CFR, Odometer reading, Component/Configuration Description, Manufacturer number and NSN. 10.1.2. Processes to return component to a serviceable state such as: a) disassembly; b) cleaning, c) inspection; d) repair; e) overhaul; t) calibration; g) testing; and h) packaging.  10.1.3. Identify the OEM specifications (most recent) used for the work on these items.  10.1.4. Delineate procedure to be used to obtain authorization for any proposed amendment or changes to OEM specifications and role of the Technical Authority, the Contracting Authority and the Requisitioning Authority in this process.  10.1.5. List the mandatory replacement parts for the R&O Components in the table below.		

Table format for mandatory replacement parts.

#	Description	Part Number	Qty

**DID SMP-ISS-017 R&O Performance Report**

<b>1. TITLE</b> R&O Performance Report		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-017	
<b>3. DESCRIPTION/PURPOSE</b> R&O Performance Reports summarize all the activities related to R&O.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> A-LM-184-001/JS-001	
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. The preparation of the R&amp;O Performance Report shall comply with A-LM-184-001/JS-001.</p> <p>10.2. The R&amp;O Performance Report shall be prepared and delivered in Contractor's format that contains, but is not limited to the following:</p> <ul style="list-style-type: none"> <li>i. RMA Code;</li> <li>ii. NATO Stock Code;</li> <li>iii. Item Name;</li> <li>iv. Serial Number;</li> <li>v. Repair Priority Code (RPC);</li> <li>vi. Maximum Repair Cost (MRC);</li> <li>vii. Forecast Current Year (FRCST CY);</li> <li>viii. Forecast Next Year (FRCST NY);</li> <li>ix. Current Year Status (CY Status);</li> <li>x. Actual TAT;</li> <li>xi. Total Repair Cost;</li> <li>xii. Date received at Contractor's dock;</li> <li>xiii. Quantity Received;</li> <li>xiv. Quantity in Progress;</li> </ul>			

- xv. Quantity Completed;
- xvi. Date received at Canada Depot;
- xvii. Total Quantity Completed Year to Date (from 01 April of each Fiscal year);
- xviii. Total Quantity received Year to date (from 01 April of each Fiscal year);
- xix. QTY declared scrap/BER or repairable reserve; and
- xx. Comments (reasons for delay).

10.3 Once yearly, for the last monthly report of the fiscal year (the fiscal year being from 1 April to 31 March) the Contractor shall be prepared, as requested, to include the data of the previous 12 monthly reports in a graphical display indicating any backlog at year end.

**DID SMP-ISS-018 Consolidated Field Support Services Report**

DATA ITEM DESCRIPTION		
1. <b>TITLE</b> Consolidated Field Support Services Report	2. <b>IDENTIFICATION NUMBER</b> SMP-ISS-018	
3. <b>DESCRIPTION/PURPOSE</b> The Consolidated Field Support Services Report (CFSSR) advises Canada of any and all problems adversely affecting the equipment for which the FSRs are responsible.		
4. <b>APPROVAL DATE</b> N/A	5. <b>OFFICE OF PRIMARY INTEREST</b> ILSM	6. <b>GIDEP APPLICABLE</b> N/A
7. <b>APPLICATION/INTERRELATIONSHIP</b> Annex B		
8. <b>ORIGINATOR</b> ILSM	9. <b>APPLICABLE FORMS</b> N/A	
10. <b>PREPARATION INSTRUCTIONS</b>  10.1. The Consolidated Field Support Services Report shall be prepared in Contractor format. 10.2. The Consolidated Field Support Services Report shall address, as a minimum, the following topics: 10.2.1. Reporting period covered by the report; 10.2.2. Unit(s) the FSRs are providing support to; 10.2.3. Report identification/serial number; 10.2.4. Names of the FSRs who provided the support; 10.2.5. FSRs main responsibilities; 10.2.6. Summary of technical/support situation related to spare parts, test equipment, tools, training, facilities, etc; 10.2.7. Weekly activities; 10.2.8. Maintenance problems encountered, and actions taken or suggested; and 10.2.9. Recommendations as appropriate.		

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract -ISS  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

**DID SMP-ISS-019 Not Used**

**Not Used**

**DID SMP-ISS-020 Major Repair Program Reports**

DATA ITEM DESCRIPTION		
<b>1. TITLE</b> Major Repair Program Reports		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-020
<b>3. DESCRIPTION/PURPOSE</b> Major Repair Program Reports summarize all the activities related to MRP for the performance period under review.		
<b>4. APPROVAL DATE</b> N/A	<b>6. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B		
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A
<b>10. PREPARATION INSTRUCTIONS</b> <p>10.1. The Major Repair Program Reports shall provide the following:</p> <p>10.1.1. Executive Summary. The executive summary shall provide the total value of invoices issued for the reporting period, any unusual or noteworthy failures, Vehicles, APSs and Trailers that were determined to be Beyond Economical Repair (BER), and subsequent action/ disposition recommended by DND.</p> <p>10.1.2. A table shall be included in the report that provides the following information for Vehicles, APSs and Trailers delivered for repair:</p> <p>10.1.3. Date Received;</p> <p>10.1.4. Variant;</p> <p>10.1.5. CFR No.;</p> <p>10.1.6. VIN;</p> <p>10.1.7. APS Kit Installed (Y/N);</p> <p>10.1.8. Estimate due date;</p> <p>10.1.9. Estimate Value;</p> <p>10.1.10. Additional Work Request (Y/N);</p> <p>10.1.11. Revised Estimate;</p> <p>10.1.12. BER (Y/N);</p> <p>10.1.13. Purchase Order No.;</p> <p>10.1.14. Purchase Order Date;</p> <p>10.1.15. Completion Date;</p> <p>10.1.16. Cost (Actual);</p> <p>10.1.17. Total Cost;</p> <p>10.1.18. Invoice Date; and</p> <p>10.1.19. Ship date.</p>		



**DID SMP-ISS-021 Reliability/Trend Analysis Reports**

DATA ITEM DESCRIPTION		
<b>1. TITLE</b> Reliability/Trend Analysis Reports		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-021
<b>3. DESCRIPTION/PURPOSE</b> Reliability/Trend Analysis Reports update the Technical Authority on fleet management data and R&O repair analysis to identify failure trends that require investigation.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b>
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B		
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> MIL-HDBK-338B
<b>10. PREPARATION INSTRUCTIONS</b>  10.1 Reliability/Trend Analysis Reports shall be prepared using MIL-HDBK-338B (Electronic Reliability Design Handbook) as a guide.  10.2 The Reliability/Trend Analysis Report shall be produced in Contractor's format and shall contain, as a minimum, the following:  10.3.1. Identification of equipment affected (including in other countries using a similar fleet provided by the Contractor to that country); 10.3.2. Reliability and maintainability analysis and prediction; 10.3.3. Hardware failure mode and effects analysis; 10.3.4. All references and assumptions used in the report; and 10.3.5. Conclusions and recommendations resulting from the report.		

**DID SMP-ISS-022 Engineering Change Proposal**

<b>1. TITLE</b> Engineering Change Proposal (ECP)		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-022	
<b>3. DESCRIPTION/PURPOSE</b> ECPs request for authorization to make changes to an approved baseline.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> Mil-Std-973	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. Engineering Change Proposals (ECP) shall be provided using the ECP Template, Figure 1. 10.2. The ECP shall fully describe and substantiate the engineering change required. 10.3. ECP Template Field Descriptions. 10.3.1. <u>Block 1.</u> DATE (YY/MM/DD). Enter the submittal date of the ECP. 10.3.2. <u>Block 2.</u> Enter name, address and contact information for Canada or Contractor authority submitting the ECP. 10.3.3. <u>Block 3.</u> CLASS OF ECP. Enter the class of ECP either "Class I" or "Class II". Classifications of changes are determined in accordance with referenced paragraphs in Mil-Std-973: Class I: Subject to Government Approval (Para. 5.4.2.2.1.). Class II: Subject to Government Approval for Classification Only (Para. 5.4.2.4.). Info copy of completed Class II change provided to Canada. 10.3.4. <u>Block 4.</u> JUSTIFICATION CODE. (Reference Mil-Std-973) B - Interface C - Compatibility D - Deficiency O - Operational or Logistics Support P - Production Stoppage R - Cost Reduction S - Safety			

V - Value Engineering

10.3.5. Block 5. PRIORITY. Contractor recommendation for processing:

E - Emergency. Vital modification required to rectify a condition which may result in a serious hazard to personnel or equipment, or may seriously compromise national security. ECP to be actioned within 24 hours.

U - Urgent. Urgent modification required to rectify a condition that results in degraded mission effectiveness. ECP to be actioned within 5 days.

R - Routine. ECP to be actioned within 30 days.

10.3.6. Block 6. ECP DESIGNATION.

No. - Format "ECP-Y-NNN"

Y - C (Contractor) or P (Project Office – Canada) indicating Originator

NNN - Serial number unique for each change

Type – P (Preliminary) or F (Final)

Rev – Enter revision indicator to identify version

System Designation – Identify and describe the System/Sub-System affected by the ECP. Include reference to affected configuration identifier(s).

10.3.7. Block 7. SPECIFICATIONS/DOCUMENTS AFFECTED. List all specifications or documents affected by the change. This shall include the management plans submitted for the contract. Copies of the specifications/documents showing proposed changes shall be submitted with the ECP in order to assess the impact of the change. Attach separate list as required.

10.3.8. Block 8. DRAWINGS AFFECTED. List all drawings or documents affected by the change. Copies of the drawings showing proposed changes shall be submitted with the ECP in order to assess the impact of the change. Attach separate list as required.

10.3.9. Block 9. TITLE OF CHANGE. Enter a brief title to identify the component or system affected by the change.

10.3.10. Block 10. DESCRIPTION OF CHANGE. Describe the change in definitive terms. Supplementary information shall be attached to the ECP to the extent necessary to clearly portray the proposed change and obtain approval.

10.3.11. Block 11. NEED FOR CHANGE. Provide an explanation of the need for the change and indicate the benefit to Canada (enhanced performance, range, reliability, maintainability, etc). The nature of the defect, failure, incident, malfunction, etc. substantiating the need for the change shall be provided in detail.

10.3.12. Block 12. CONTRACT NUMBER AND LINE ITEMS. Insert the contract number and identify reference areas of the contract, annexes, appendices and attachments, line item numbers etc., affected by the change.

10.3.13. Block 13. PRODUCTION EFFECTIVITY. Indicate the estimated date of when change will be incorporated on the production line. Also indicate the planned serial number or lot number of when the change will be implemented.

10.3.14. Block 14. EFFECT ON PRODUCTION DELIVERY SCHEDULE. Indicate the production delivery schedule for items incorporating the change and identify if the change is a variance from

the current established production and delivery schedule.

10.3.15. Block 15. RETROFIT. Applicable when the change must be accomplished in accepted items by retrofit.

RECOMMENDED ITEM EFFECTIVITY. Indicate the lot numbers or serial numbers of the item(s) to be retrofitted as a result of the change.

ESTIMATED KIT DELIVERY SCHEDULE/LOCATIONS. Indicate details of delivery schedule, quantities and locations for completing the retrofit as a result of the change.

ESTIMATED COSTS/SAVINGS UNDER CONTRACT. Indicate the total estimated costs/savings of the ECP on the contract.

10.3.16. Block 16. SUBMITTING ACTIVITY. Print the name of the individual authorized to submit the ECP and have the ECP signed and dated.

10.3.17. Block 17. EFFECT ON PRODUCT CONFIGURATION DOCUMENTATION OR CONTRACT.

Describe the effects on the approved CI product specifications by reference to the SCNS, NORS or other enclosure(s) which cover such proposed text changes in detail. Provide indexing for proper identification adjacent to the factor affected-performance, weight, moment, etc., which are covered in the enclosure(s). Describe the effects on drawings, when not completely covered on Page 1, in general terms by means of a referenced enclosure. Such enclosure may consist of a list of enclosed NORS if submittal of an NOR for each drawing affected is a requirement of the contract. Indicate any technical data submittal which is not provided for in the CDRL by means of a referenced enclosure. Address nomenclature change when applicable.

10.3.18. Block 18. EFFECT ON INTEGRATED LOGISTICS SUPPORT ELEMENTS.

Indicate the effects of the engineering change on logistic support of the item by checking the appropriate boxes. Explain in detail these effects on an enclosure indexed by appropriate identification adjacent to the subject under discussion. Indicate the method to be used to determine the integrated logistic support plans and items which will be required for the support of the new configuration as well as retrofitting previously delivered items to the same configuration. Address the following as applicable:

- a. Effects on schedule and content of the ILS plan;
- b. Effect on maintenance concept and plans for the levels of maintenance and procedures;
- c. System and/or CI logistics support analysis (LSA) tasks to be accomplished and LSA data requiring update wherever it exists in the contract;
- d. Extension/revision of the interim support plan;
- e. Spares and repair parts that are changed, modified, obsoleted or added, including detailed supply data for interim support spares;  
NOTE: Failure to include detailed supply data may delay ECP processing.
- f. Revised or new technical manuals;
- g. Revised or new facilities requirements and site activation plan;
- h. New, revised, obsoleted or additional support equipment (SE), test procedures and software. For items of SE and trainers which require change, furnish a cross reference to the related ECPS, and for any related ECP not furnished with the basic ECP, furnish a brief description of the proposed change(s) in SE and trainers;
- i. Qualitative and quantitative personnel requirements data which identify additions or deletions to operator or maintenance manpower in terms of personnel skill levels, knowledge and numbers required to support the CI as modified by the change;
- j. New operator and maintenance training requirements in terms of training equipment, trainers and

- training software for operator and maintenance courses. This information should include identification of specific courses, equipment, technical manuals, personnel, etc. required to set up the course at either the contractor or Government facility;
- k. See paragraph i above for instructions;
  - l. See paragraph j above for instructions;
  - m. Any effect on contract maintenance that increases the scope or dollar limitation established in the contract;
  - n. Effects on packaging, handling, storage, and transportability-resulting from changes in materials, dimensions, fragility, inherent environmental or operating conditions.

10.3.19. Block 19. EFFECT ON OPERATIONAL EMPLOYMENT. Indicate the effects of the engineering change of CI utilization by checking the appropriate factors and providing details by enclosures. Use quantitative values whenever practicable but are required when reliability and service life are impacted. Survivability includes nuclear survivability.

10.3.20. Block 20. OTHER CONSIDERATIONS. Identify the effects of the proposed engineering change on the following on an enclosure indexed by appropriate identification adjacent to the factor affected:

- a. Interfaces having an effect on adjacent or related items, (output, input, size, mating connections, etc.);
- b. GFE or Government Furnished Data (GFD) changed, modified or obsoleted;
- c. Physical constraints. Removal or repositioning of items, structural rework, increase or decrease in overall dimensions;
- d. Software (other than operational, maintenance, and training software) requiring a change to existing code and/or, resources or addition of new software;
- e. Rework required on other equipment not included previously which will effect the existing operational configuration;
- f. Additional or modified system test procedures required;
- g. Any new or additional changes having an effect on existing warranties or guarantees;
- h. Changes or updates to the parts control program;
- i. Effects on life cycle cost projections for the configuration item or program, including projections of operation and support costs/savings for the item(s) affected over the contractually defined life and projections of the costs/savings to be realized in planned future production and spares buys of the item(s) affected.

10.3.21. Block 21. ALTERNATE SOLUTIONS. Include a summary of the various alternative solutions considered, including the use of revised operation or maintenance procedures, revised inspection or servicing requirements, revised part replacement schedules, etc.. Provide an analysis of the alternatives, identify the advantages and disadvantages inherent in each feasible alternative approach, and show the reasons for adopting the alternative solution proposed by the ECP. When analysis addresses new concepts or new technology, present supporting data (to include LSA if contractually required) with the proposal to authenticate the trade-off analysis.

10.3.22. Block 22. DEVELOPMENTAL STATUS. When applicable, make recommendations as to the additional tests, trials, installations, prototypes, fit checks, etc. , which will be required to substantiate the proposed engineering change. These recommendations shall include the test objective and test vehicle(s) to be used. Indicate the development status of the major items of GFE which will be used in conjunction with the change and the availability of the equipment in terms of the estimated production incorporation point.

10.3.23. Block 23. RECOMMENDATIONS FOR RETROFIT. When applicable, make recommendations for retrofit of the engineering change into accepted items with substantiating data, any implications thereto,

and a brief description of the action required. Where retrofit is not recommended, provide an explanation of this determination. Provide reference to any enclosure required to state recommended retrofit affectivity (See Block 23a).

10.3.24. Block 24. WORK-HOURS, MATERIAL COSTS AND SUB CONTRACT COSTS PER UNIT TO INSTALL RETROFIT KITS. Complete Blocks 24a through 24d to show the amount of work which must be programmed for various activities to install retrofit kits. Estimate work-hours, material costs, and sub contract costs to install retrofit kits when weapon system is undergoing overhaul.

10.3.25. Block 25. WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT. Enter the work-hours required to test the system or the item following installation of the retrofit kit.

10.3.26. Block 26. THIS CHANGE MUST BE ACCOMPLISHED. Where previously approved engineering changes must be incorporated in a specific order in relation to the proposed change, specify such order.

10.3.27. Block 27. IS CONTRACTOR FIELD SERVICE ENGINEERING REQUIRED? Check applicable box. If "yes" attach proposed program for contractor participation.

10.3.28. Block 28. OUT OF SERVICE TIME. Estimate the total time period from removal of the equipment from operational service until equipment will be returned to operational status after being retrofitted.

10.3.29. Block 29. EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPS ON ITEM. The contractor shall summarize the cumulative effect upon performance, weight, electrical load, etc. , of this ECP and previously approved ECPS when design limitations are being approached or exceeded. Consequences of ECP disapproval may be stated in this block or in a referenced enclosure.

10.3.30. Block 30. DATE CONTRACTUAL AUTHORITY NEEDED. The contractor shall provide the date by which contractual authority to proceed is needed to maintain the estimated effectiveness specified in the ECP and to provide concurrent ILS and logistics support item deliveries. The contractor should consider the targets for decision (see 5.4.2.3.1.1) allowing additional time for review, mailing, and other incidental handling and processing requirements.

## ECP Template, Figure 1

ENGINEERING CHANGE PROPOSAL (ECP)					
1. DATE (YY/MM/DD)					
2. ORIGINATOR NAME AND ADDRESS					
3. CLASS OF ECP (I or II)		4. JUSTIFICATION CODE (Applicable to Class I Only)		5. PRIORITY	
6. ECP DESIGNATION					
No.		Type		Revision	
SYSTEM DESIGNATION:					
7. SPECIFICATIONS / DOCUMENTS AFFECTED			8. DRAWINGS AFFECTED		
Spec/Doc No.	Title	Rev	Dwg No.	Title	REV
9. TITLE OF CHANGE					
10. DESCRIPTION OF CHANGE					
11. NEED FOR CHANGE					
12. CONTRACT NUMBER AND LINE ITEMS					
13. PRODUCTION EFFECTIVITY			14. EFFECT ON PRODUCTION DELIVERY SCHEDULE		
15. RETROFIT					
RECOMMENDED ITEM EFFECTIVITY			ESTIMATED KIT DELIVERY SCHEDULE / LOCATIONS		

ESTIMATED COSTS / SAVINGS UNDER CONTRACT	
<b>IMPACT ANALYSIS / EFFECTS</b>	
ITEMS / SYSTEMS DIRECTLY AFFECTED	
OTHER SYSTEMS AFFECTED	
OTHER CONTRACTORS / ACTIVITIES AFFECTED	
EFFECTS ON PERFORMANCE / SYSTEM SPECIFICATIONS	
EFFECTS ON EMPLOYMENT, INTEGRATED LOGISTICS SUPPORT, TRAINING, OPERATIONAL EFFECTIVENESS, ENVIRONMENT, HEALTH & SAFETY (EHS) OR SOFTWARE	
EFFECTS ON ITEM SPECIFICATIONS	
16. SUBMITTING ACTIVITY – Authorized Signature (Print Name and Sign)	Date

<b>EFFECTS ON PRODUCT CONFIGURATION IDENTIFICATION, LOGISTICS AND OPERATIONS</b>
----------------------------------------------------------------------------------



(X)	FACTOR	ENCL	PAR	(X)	FACTOR	ENCL	PAR
	<b>17. EFFECT ON PRODUCT CONFIGURATION IDENTIFICATION OR CONTRACT</b>				<b>19. EFFECT ON OPERATIONAL EMPLOYMENT</b>		
	a. PERFORMANCE				a. SAFETY		
	b. WEIGHT BALANCE STABILITY ( <i>Aircraft</i> )				b. SURVIVABILITY		
	c. WEIGHT-MOMENT ( <i>Other Equipment</i> )				c. RELIABILITY		
	d. CDRL, TECHNICAL DATA				d. MAINTAINABILITY		
	e. NOMENCLATURE				e. SERVICE LIFE		
					f. OPERATING PROCEDURES		
	<b>18. EFFECT ON INTEGRATED LOGISTICS SUPPORT (ILS) ELEMENTS</b>				g. ELECTROMAGNETIC INTERFERENCE		
	a. ILS PLANS				h. ACTIVATION SCHEDULE		
	b. MAINTENANCE CONCEPT, PLANS AND PROCEDURES				i. CRITICAL SINGLE POINT FAILURE ITEMS		
	c. LOGISTICS SUPPORT ANALYSIS				j. INTEROPERABILITY		
	d. INTERIM SUPPORT PROGRAMS						
	e. SPARES AND REPAIR PARTS				<b>20. OTHER CONSIDERATIONS</b>		
	f. TECH MANUALS/PROGRAMMING TAPES				a. INTERFACE		
	g. FACILITIES				b. OTHER AFFECTED EQUIPMENT/GFE/ GFI		
	h. SUPPORT EQUIPMENT				c. PHYSICAL CONSTRAINTS		
	i. OPERATOR TRAINING				d. COMPUTER PROGRAMS AND RESOURCES		
	j. OPERATOR TRAINING EQUIPMENT				e. REWORK OF OTHER EQUIPMENT		
	k. MAINTENANCE TRAINING				f. SYSTEM TEST PROCEDURES		
	l. MAINTENANCE TRAINING EQUIPMENT				g. WARRANTY/GUARANTEE		
	m. CONTRACT MAINTENANCE				h. PARTS CONTROL		
	n. PACKAGING, HANDLING, STORAGE, TRANSPORTABILITY				i. LIFE CYCLE COSTS		
<b>21. ALTERNATE SOLUTIONS</b>							
<b>22. DEVELOPMENTAL STATUS</b>							
<b>23. RECOMMENDATIONS FOR RETROFIT</b>							
<b>24. WORK-HOURS PER UNIT TO INSTALL RETROFIT KITS</b>							
<b>a. WORK HOURS</b>		<b>b. MATERIAL COSTS</b>			<b>c. SUBCONTRACT COSTS</b>		
<b>25. WORK-HOURS TO CONDUCT SYSTEM TESTS AFTER RETROFIT</b>							
<b>26. THIS CHANGE MUST BE ACCOMPLISHED</b> <input type="checkbox"/> BEFORE <input type="checkbox"/> WITH <input type="checkbox"/> AFTER THE FOLLOWING CHANGES				<b>27. IS CONTRACTOR FIELD SERVICE ENGINEERING REQUIRED?</b> <input type="checkbox"/> YES <input type="checkbox"/> NO		<b>28. OUT OF SERVICE TIME</b>	
<b>29. EFFECT OF THIS ECP AND PREVIOUSLY APPROVED ECPs ON ITEM</b>				<b>30. DATE CONTRACTUAL AUTHORITY NEEDED FOR PRODUCTION</b> RETROFIT _____ _____			

**DID SMP-ISS-023 Request for Deviation/Request for Waiver (RFD/RFW)**

<b>1. TITLE</b> Request For Deviation/Request for Waiver (RFD/RFW)		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-023	
<b>3. DESCRIPTION/PURPOSE</b> RFDs request for authorization to deliver materiel that contains a temporary departure from approved configuration baseline. RFWs request for authorization to deliver materiel that contains a non-conformance from approved configuration baseline, usually limited to a specified number of units or lot.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b>	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. Request for Deviation (RFD) or Request for Waiver (RFW) shall be provided using the RFD/RFW Template, Figure 1. 10.2. The RFD/RFW shall fully describe and substantiate the request. 10.3. RFD/RFW Template Field Descriptions. 10.3.1. <u>Block 1.</u> DATE (YY/MM/DD). Enter the submittal date of the RFD/RFW. 10.3.2. <u>Block 2.</u> Enter name, address and contact information for Canada or Contractor authority submitting the RFD/RFW. 10.3.3. <u>Block 3.</u> DEVIATION or WAIVER. Enter an "X" in the appropriate box. 10.3.4. <u>Block 4.</u> CLASSIFICATION:. Enter an "X" in the appropriate box. <div style="margin-left: 40px;"> Minor: The deviation / waiver consists of a departure which does not involve the factors listed for Major or Critical.   Major: The deviation / waiver consists of a departure involving (a) health, (b) performance, (c) interchangeability, reliability, survivability, maintainability, or durability of the item or its repair parts; (d) effective use or operation; (e) weight and size; or (f) appearance (when a factor).   Critical: The deviation / waiver consists of a departure involving safety. </div> 10.3.5. <u>Block 5.</u> DEVIATION / WAIVER DESIGNATION			

No. – Format “AAA-Y-NNN”

AAA = RFD or RFW (Deviation or Waiver)

Y = C (Contractor) or P (Project Office - Gov) indicating Originator.

NNN = Serial number unique for each Request

Type - P (Preliminary) or F (Final)

Rev - Enter revision indicator to identify version

System Designation – Identify and describe the System / Sub-System affected by the Deviation / Waiver. Include reference to affected configuration identifier(s).

- 10.3.6. Block 6. TITLE OF DEVIATION / WAIVER. Enter a brief descriptive title of the deviation or waiver.
- 10.3.7. Block 7. CONTRACT NUMBER AND LINE ITEM. Insert the contract number and identify reference areas of the Contract, Annexes, Appendices and Attachments, Line Item Numbers etc. affected by the deviation / waiver.
- 10.3.8. Block 8. PROCURING CONTRACT OFFICER. Enter the name and phone number for the Contractor's procuring contract officer applicable to the item(s) in Block 9.
- 10.3.9. Block 9. NAME OF PARTS / ASSEMBLIES AFFECTED. Provide a list and description of the parts / assemblies affected by the deviation / waiver.
- 10.3.10. Block 10. EFFECTIVITY. If lot numbers have been assigned, enter the number(s) applicable to the lot(s) for which the deviation / waiver is being requested. Lot may also be defined by serial numbers of the affected items.
- 10.3.11. Block 11. EFFECT ON COST / PRICE. Enter the estimated reduction or price adjustment. If no change, so state with rationale. The request for deviation or waiver shall include the specific consideration that will be provided to the Government if this “non-conforming” unit(s) is accepted by the Government.
- 10.3.12. Block 12. EFFECT ON DELIVERY SCHEDULE. State the effects on the contract delivery schedule that will result from both approval and disapproval of the request for deviation or waiver.
- 10.3.13. Block 13. EFFECT ON INTEGRATED LOGISTICS SUPPORT. If the deviation / waiver has an impact on integrated logistics support describe the effects. Attach additional documentation as required and reference those enclosures in the block.
- 10.3.14. Block 14. DESCRIPTION OF DEVIATION / WAIVER. Describe the nature of the proposed departure from the technical requirements. Marked drawings for the systems / sub-systems should be included when necessary to provide a better understanding of the deviation / waiver.
- 10.3.15. Block 15. NEED FOR DEVIATION / WAIVER. Provide an explanation of why it is impossible or unreasonable to comply with the configuration documentation within the specified delivery schedule. Include an explanation why a deviation or waiver is proposed in lieu of a permanent design change.
- 10.3.16. Block 16. CORRECTIVE ACTION TAKEN. Describe action being taken to correct non-conformance to prevent a future occurrence.
- 10.3.17 Block 17. SUBMITTING ACTIVITY. Print the name of the individual authorized to submit the Deviation / Waiver and have the Deviation / Waiver signed and dated.

10.3.18 Block 18. APPROVAL / DISAPPROVAL. To be completed and signed by the Government Authority authorized to make the decision on the acceptance or rejection of the deviation / waiver.

RFD/RFW Template, Figure 1

<b>REQUEST FOR DEVIATION (RFD)/ REQUEST FOR WAIVER (RFW)</b>		
1. DATE (YY/MM/DD)		
2. ORIGINATOR NAME AND ADDRESS		
3. DEVIATION or WAIVER <input type="checkbox"/> Deviation <input type="checkbox"/> Waiver	4. CLASSIFICATION <input type="checkbox"/> Minor <input type="checkbox"/> Major <input type="checkbox"/> Critical	
5. DEVIATION / WAIVER DESIGNATION		
No.	Type	Revision
SYSTEM DESIGNATION		
6. TITLE OF DEVIATION / WAIVER		
7. CONTRACT NUMBER AND LINE ITEM	8. PROCURING CONTRACT OFFICER Name Phone Number	
9. NAME OF PARTS / ASSEMBLIES AFFECTED		
10. EFFECTIVITY		
11. EFFECT ON COST / PRICE	12. EFFECT DELIVERY SCHEDULE	
13. EFFECT ON INTEGRATED LOGISTICS SUPPORT		
14. DESCRIPTION OF DEVIATION / WAIVER		
15. NEED FOR DEVIATION / WAIVER		
16. CORRECTIVE ACTION TAKEN		

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract -ISS  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

17. SUBMITTING ACTIVITY – Authorized Signature (Print Name and Sign)	Date:
18. APPROVAL / DISAPPROVAL – Authorized Signature (Print Name and Sign)	Date:

**DID SMP-ISS-024 Specification Change Notice/Notice of Revision**

<b>1. TITLE</b> Specification Change Notice/Notice of Revision		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-024	
<b>3. DESCRIPTION/PURPOSE</b> Specification Change Notice (SCN)/ Notice of Revision (NOR) describe the changes to specifications, drawings, associated lists and other documentation following ECP (Engineering Change Proposal) approval.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 The SCN/ NOR shall be provided in the Contractor's format. 10.2 The SCN/ NOR shall fully describe the changes. 10.3 The following information shall be included and detailed: 10.3.1 General Information (originator, date SCN/ NOR number etc); 10.3.2 Related ECP; 10.3.3 Specification or document identification to which ECP applies; 10.3.4 Configuration item; 10.3.5 Description of changes; 10.3.6 Disposition of SCN/ NOR; and 10.3.7 Authorities (Submitting, Reviewing, Recommending and Approving).			

**DID SMP-ISS-025 Configuration Status Accounting Report**

<b>1. TITLE</b> Configuration Status Accounting (CSA) Report		<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-025	
<b>3. DESCRIPTION/PURPOSE</b> The CSA Report details the information required to effectively manage Configuration Items (CIs) and provide visibility of Configuration Management activities, including the status of deviations, waivers and engineering changes.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM		<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The CSA Report shall be in the Contractor's format. 10.2. The CSA Report shall provide as a minimum the identification of each CI and list all new, outstanding and historical ECPs (Engineering Change Proposal), RFDs (Request For Deviation), RFWs (Request For Waiver), SCNs (Specification Change Notice) and NORs (Notice Of Revision) including their status against each CI.			

**DID SMP-ISS-026 Obsolescence Management Report**

DATA ITEM DESCRIPTION		
<b>1. TITLE:</b> Obsolescence Management Report		<b>2. IDENTIFICATION NUMBER:</b> SMP-ISS-026
<b>3. DESCRIPTION/PURPOSE</b> The Obsolescence Management Report specifies the SMP components that are at risk of becoming obsolete, considered to be critical to the availability or serviceability of the Equipment, specifics of a pending issue and processes to mitigate and correct the impact of obsolescence on the SMP Vehicle, APS and Trailer.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b>
<b>7. APPLICATION/INTERRELATIONSHIP:</b> Annex B		
<b>8. ORIGINATOR:</b> ILSM		<b>9. APPLICABLE FORMS:</b>
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The Obsolescence Management Report shall specify the SMP Vehicle, APS and Trailer components that are most at risk of becoming obsolete, are considered to be critical to the availability or serviceability of the vehicle, or if no longer available, would cause a mission failure.  10.2. The Obsolescence Management Report shall be prepared in Contractor's format.  10.3. As a minimum, the following information shall be provided for each part included in the Obsolescence Management Report:  <div style="margin-left: 40px;"> 10.3.1. NATO Stock Number;  10.3.2. Part Number;  10.3.3. Nomenclature;  10.3.4. Manufacturer;  10.3.5. Cost of Replacement Item;  10.3.6. Usage Rate;  10.3.7. Procurement Lead Time;  10.3.8. Economic Order Quantity; and  10.3.9. Any other information that is deemed to be critical to the identification of the part. </div> 10.4. The report shall also outline the specifics of a pending issue for components that represent the most significant risk in terms of obsolescence and the process that will be followed for the replacement of obsolete and unsupportable components.		



**DID SMP-ISS-027 Equivalent Standards or Parts Justification Report**

<b>1. TITLE</b> Equivalent Standards or Parts Justification Report		<b>2. IDENTIFICATION NUMBER</b> DID SMP-ISS-027	
<b>3. DESCRIPTION/PURPOSE</b> An Equivalent Standards or Parts Justification Report is used to justify the use of a proposed "demonstrated equivalent" standard, how it will be used and any impact that its use will have on both the developmental process and life cycle data.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1 General 10.1 Equivalent Standards or Parts Justification Reports shall be prepared in Contractor format. 10.2 Standards and Specifications 10.2.1 The standards and specifications quoted in the appropriate section of the SOW, including their approval dates and dates of any applicable amendments and revisions (herein referred to as the "Quoted Standard"), is the base document to which the equivalency case justification shall be prepared. 10.2.2 The standards and specifications proposed by the Contractor, including their approval dates and dates of any applicable amendments and revisions (herein referred to as the "Equivalent Standard"), is the comparison document that will be documented as equivalent to the Quoted Standard. 10.3 The Equivalent Standards or Parts Justification Report shall compare the Equivalent Standard or Part to the Quoted Standard or Part and shall include the following information: a. a rationale and a justification for the use of the Equivalent Standard or Part (i.e. compelling reasons for using the Equivalent Standard or Part as opposed to the Quoted Standard or Part, including other cases where the Equivalent Standard or Part was successfully used); b. a clear statement that the intended objectives, management, processes, accomplishments and requirements of the Quoted Standard will allow the technical specification to be realized through the use of the Equivalent Standard or Part; c. the documents (life cycle related or otherwise) and the data required by the Equivalent Standard or Part and how this data will satisfy the requirements of the Quoted Standard;			

d. a mapping of the applicable Equivalent Standard or Part requirements to the Quoted Standard or Part requirements that are specified in the Contract; and

e. an impact identification of any difference between the Equivalent Standard or Part and the Quoted Standard or Part, including:

- i. safety goals;
- ii. design requirements; and
- iii. qualification requirements.

10.4 A copy of the Equivalent Standard or Part being proposed shall be included as part of this report.

**DID SMP-ISS-028 EIE Plan**

<b>1. TITLE</b> EIE Plan		<b>2. IDENTIFICATION NUMBER</b> DID SMP-ISS-028	
<b>3. DESCRIPTION/PURPOSE</b> The EIE Plan explains how the EIE system will be delivered, operated, maintained and updated.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A	
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10 PREPARATION INSTRUCTIONS 10.1 The EIE Plan shall be prepared in Contractor format. 10.2 The EIE Plan shall detail the system architecture in such a manner that optimizes the understanding of how the Contractor will implement the EIE. 10.3 The EIE Plan shall contain the following information and any other information that assists in the understanding of the EIE. 10.4 System Overview. The EIE Plan shall provide an overview of the system 10.5 Applicable Documents and Standards. This section shall list documents and standards quoted in the EIE plan. 10.6 Terms and Acronyms. This section shall list and provide a definition for all terms and acronyms used in the EIE Plan that are unique to the SMP Program. 10.7 System Architecture 10.7.1 System/Subsystems Identification. The System Architecture shall describe the Systems/Subsystems that compose the system. Identify the Commercial Off-the-Shelf (COTS) and any Contractor developed subsystems that form the EIE system. The System Architecture shall identify any modifications/tailoring to existing commercial systems. 10.7.2 The EIE Plan shall describe in detail how each of the following features shall be implemented and supported throughout the lifecycle of the ISS SMP: a. General Features; b. Contractual Data Deliverables; c. Project Management Control System; d. Project Performance Management System; e. Technical Problem Management System;			

- f. Configuration Management;
  - g. LSA Features;
  - h. Technical Documentation Database;
  - i. Training Support; and
  - j. Warranty Support.
- 10.8 This section shall include summary tasks and milestone events (PDR, FDR) extracted from the Master Project Schedule (CDRL SMP-ISS-006 and DID SMP-ISS-006) to show the time-phased workflow of the EIE tasks, events and deliverables.

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract -ISS  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

**DID SMP-ISS-029 Not Used**

**Not Used**

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract -ISS  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

**DID SMP-ISS-030 Not Used**

**Not Used**

Medium Support Vehicle System  
Standard Military Pattern  
Resulting Contract -ISS  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

**DID SMP-ISS-031 Not Used**

**Not Used**

**DID SMP-ISS-032 Repair and Overhaul Candidate Items List**

<b>1. TITLE</b> Repair and Overhaul Candidate Items List (ROCIL)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-ISS-032	
<b>3. DESCRIPTION/PURPOSE</b> The ROCIL uniquely identifies Repair and Overhaul Candidate Items.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM		<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B			
<b>8. ORIGINATOR</b> ILSM		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. The ROCIL shall include sufficient data to clearly define each item that will require Repair and Overhaul. The ROCIL shall include:  10.1.1 NATO Stock Number (NSN) If available; 10.1.2 Item Name; 10.1.3 Turn Around Time (TAT); 10.1.4 Manufacturer Name; 10.1.5 Part Number; 10.1.6 Mean Time Between Failure; 10.1.7 Annual Wastage Rate (Beyond Repair); 10.1.8 Unit Price to Procure; 10.1.9 Suggested Maximum Repair Cost; and 10.1.10 Historical Repair Cost.  10.2. The ROCIL shall be in table format.  10.3. The ROCIL shall be in a Microsoft Excel Spreadsheet format.			



**DID SMP-ISS-033 Configuration Management Plan**

1. <b>TITLE</b> Configuration Management Plan (CMP)		2. <b>IDENTIFICATION NUMBER</b> DID SMP-ISS-033	
3. <b>DESCRIPTION/PURPOSE</b> The CMP describes the Contractor's internal configuration management organization, the responsibilities of the members, the relationship among the several offices/divisions and the policies and procedures for configuration identification control, accounting and auditing.			
4. <b>APPROVAL DATE</b> N/A	5. <b>OFFICE OF PRIMARY INTEREST</b> ILSM		6. <b>GIDEP APPLICABLE</b> N/A
7. <b>APPLICATION/INTERRELATIONSHIP</b> Annex B			
8. <b>ORIGINATOR</b> ILSM		9. <b>APPLICABLE FORMS</b> ANSI EIA-649-A	
10. <b>PREPARATION INSTRUCTIONS</b> 10.1 The CMP indicates the organizational responsibilities and procedures used in the implementation of the Configuration Management requirements as stated in the contract. The Configuration Management Plan shall follow the criteria set forth in ANSI EIA-649-A. 10.2 The CMP shall be prepared in the Contractor's format. 10.3. The following paragraphs outline the subject matter of the CMP. 10.3.1 <u>Section I - General.</u> This section shall define the scope, purpose and application of the CMP, related documents and mechanisms to amend the plan. Provide updated information for changed items for which the original information was provided in the Acquisition Contract and for newly introduced items for which information has not yet been provided. It shall include, but not necessarily be limited to, a description of how the following tasks will be achieved: <ul style="list-style-type: none"> <li>a. identification of Configuration Items (a list of Configuration Items is required in the plan);</li> <li>b. establishment of baselines;</li> <li>c. establishment of Configuration Control procedures, documents, and Control Board;</li> <li>d. establishment of Configuration Status Accounting database;</li> <li>e. conduct of the Functional Configuration Audit; and</li> <li>f. conduct of the Physical Configuration Audit.</li> </ul> . 10.3.2 <u>Section II- Elements In Place.</u> The plan shall describe what elements and/or resources of			

	Configuration Management are already in place, and what is additionally required for this contract;
10.3.3	<u>Section III – Subcontracting.</u> There are two aspects to subcontracting and Configuration Management (CM). One is the subcontracting of the process, the other is CM by a major sub-system subcontractor or supplier. In both cases, the plan shall identify the subcontractor involved in CM, and describe its area of responsibility and to whom it is accountable;
10.3.4	<u>Section IV - Management/Organization.</u> This section shall describe the Contractor's CM organization, subcontractor's CM organization if applicable, management procedures, interfaces and reporting/tracking systems established to control CM activities. The Contractor's CM Manager and support personnel should be identified by name in a CM Organisational Chart.
10.3.5	<u>Section V - Schedule of Activities and Milestones.</u> This section shall include summary tasks and milestone events extracted from the ISS Master Project Schedule (MPS) (CDRL SMP-ISS-006 and DID SMP-ISS-006) to show the time-phased workflow of the CM related tasks, events, and deliverables.
10.3.7	<u>Section VI - Relationships.</u> This section shall describe the following relationships: <ul style="list-style-type: none"><li>a. between the various Contractor's CM elements and CM Manager;</li><li>b. between the Contractor's CM Manager and the Contractor's Project Management, Systems Engineering, Integrated Logistics and Subcontractors programs, and</li><li>c. between the Contractor's and DND CM Organization.</li></ul>
10.3.8	<u>Section VII – Meetings and Reviews.</u> The requirements for CM meetings throughout the conduct of the Contract shall be outlined in the CMP.

**DID SMP-ISS-034 Environmental, Health and Safety Impact Report**

<b>1. TITLE</b> Environmental, Health and Safety Impact Report (EHSIR)		<b>2. IDENTIFICATION NUMBER</b> DID SMP-ISS-034	
<b>3. DESCRIPTION/PURPOSE</b> The EHSIR identifies and documents the environmental safety and health impact of the system/service provided by the Contractor throughout the various life cycle phases (design, engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, and demilitarization and disposal) and the mitigation measures required to reduce or eliminate significant environmental safety and health risks.			
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> MSVS ILSM		<b>6. GIDEP APPLICATION</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B, A-EN-007-000/FP-001, Divisional Instruction 600-04			
<b>8. ORIGINATOR</b> SMP ILS Coordinator		<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. FORMAT 10.1.1 The EHSIR shall be in the Contractor's format and as further described herein. 10.2. CONTENT 10.2.1 The EHSIR shall follow the guidance identified in DND Environmental Assessment Manual (A-EN-007-000/FP-001) and this DID. The EHSIR shall identify and document the environmental, health and safety impact of the project, system, materiel and/or services provided by the Contractor throughout the life cycle, and the mitigation measures required to reduce or eliminate significant environmental, health and safety risks. The EHSIR shall address the above points in detail through the following parts and sections: 10.2.2 PART I – Registration Information 10.2.2.1 Title – This Title shall identify the primary system being reported upon. 10.2.2.2 Base/Unit – This section shall identify the applicable site specific EFCCs Bases/Units or geography affected by the provided equipment, materiel and/or support services. 10.2.2.3 Registration –This section shall state registration identifier of the EHSIR - For MSVS SMP registration number is DGLEPM 1088. 10.2.2.4 Project Location – This section shall identify the physical locations affected by the provided equipment, materiel and/or support services, and/or as specified within the contract requirements. 10.2.2.5 Project Description Summary – this section shall contain a brief description of the system, equipment, material and/or services being provided under following sub paragraphs:			

10.2.2.5.1	General Description of the System. The section shall provide a description of the role, purpose, concept of operation, design characteristics, and performance capabilities of the system, throughout its entire life span. The major/significant construction materials, products and activities that contribute to the EHS impact shall be identified; and
10.2.2.5.2	Major Sub System. This section shall identify the major sub components of the system and provide a description of their purpose, function and/or role including any relevant steps or phases, such as operation and maintenance. The major/significant construction materials, products and activities that contribute to their EHS impact shall be identified
10.2.2.6	Assessment Contact – this paragraph shall contain the name, title, company name, phone number, and email address of the author of the report.
10.2.3	PART II – Environmental, Health and Safety Impact Assessment
10.2.3.1	Design – This section shall provide an overview on the origin of the activity being assessed and its design impact on environmental health and safety. Alternatives to the activities that were considered are to be included within this section, including reasons for non-adoption.
10.2.3.2	Major Sub System Assessment – This section shall provide, in tabular format, the following information (Annex A illustrates an example of the tabular format):
10.2.3.2.1	A listing of the Environmental, Health and Safety aspects (a sample list of possible aspects can be found at Annex F) and their hazards associated with each major sub system and component for each life cycle phase (engineering and manufacture, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal);
10.2.3.2.2	Clear identification of whether each major subsystem and component and its consumables are a source of any of the following EHS hazards:
10.2.3.2.2.1	Ionising radiation (location and exposure levels) (for each activity the radiation hazard shall be considered in both normal and non-normal situations);
10.2.3.2.2.2	Electromagnetic radiation (location and frequencies);
10.2.3.2.2.3	Noise (location and intensity);
10.2.3.2.2.4	Vibration (location and frequency);
10.2.3.2.2.5	Hazardous gases;
10.2.3.2.2.6	Hazardous liquids;
10.2.3.2.2.7	Hazardous solids (source, concentration or quantity); and
10.2.3.2.2.8	Other – any other hazard associated with the specific equipment (e.g., CEPA Schedule 1 heavy metals, asbestos, ARET substances, NPRI substances, and Challenge Substances).
10.2.3.2.3	The identification of the substance(s) of concern with its chemical abstract number (CAS #), and the identification of its control listing (eg NPRI, ARET, Challenge, CEPA Schedule 1);
10.2.3.2.4	The significance (amount or level) of the identified hazard, including compliance to regulatory requirements;
10.2.3.2.5	Justification for the use of all regulated products and those containing substances identified within the Accelerated Reduction/Elimination of Toxics (ARET, listed in Annex G - Accelerated Reduction / Elimination of Toxics (ARET) Substance list of this DID SMP-ISS-034 National Pollutant Release Inventory (NPRI, <a href="http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm">http://www.ec.gc.ca/pdb/npri/npri_home_e.cfm</a> ) and/or List of Challenge Substances ( <a href="http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_e.html">http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/list_e.html</a> ), and also

	for products containing heavy metals (heavy metals are those identified within Schedule 1 of the Canadian Environmental Protection Act (CEPA) <a href="http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&amp;n=24374285-1&amp;offset=14&amp;toc=show#1">http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&amp;n=24374285-1&amp;offset=14&amp;toc=show#1</a> );
10.2.3.2.6	The associated potential environmental, health and safety impacts from the identified hazards;
10.2.3.2.7	The mitigation measures or preventive measures necessary to reduce or eliminate the identified impacts or risks;
10.2.3.2.8	Compliance monitoring requirements (compliance monitoring verifies that mitigation measures were implemented); and
10.2.3.2.9	Follow-Up plans (follow-ups plans verify the accuracy of an EA and/or determines the effectiveness of any mitigation measure). Identify the type and nature of any required follow-up plans.
10.2.3.2.10	Reference to the applicable Material Safety Data Sheets (MSDS) for each identified hazardous substance.
10.2.3.3	Table of Hazardous Products. This section shall contain a list of all products, which are subject to the Hazardous Products Act and require a MSDS, and were identified in paragraph 10.2.3.2.2. The list shall include the product description/name, the product part number, the manufacturer name and address, the manufacturer's National Supply Code for Manufacturers (NSCM)/ Commercial and Government Entity (CAGE) Code, NATO Stock Number (NSN – if applicable) and unique Defence Resource Management Information System (DRMIS) identifier (if it exists), all Workplace Hazardous Materials Information System (WHMIS) Class(es) (eg A [Class A-Compressed Gas], B5 [Class B Flammable and Combustible Material, Division 5: Flammable Aerosol]), the full Transportation of Dangerous Goods Class (eg 2.3 [Class 2 Compressed Gases, Division 3: Poisonous Gases]), and the cross-reference to Annex E MSDS identifier. MSDS of these products shall be appended to the EHSIR within Annex E and clearly marked with their cross-linked identifier at the top right of the page. An example of this listing is provided at Annex B.
10.2.3.4	Mercury. This section shall contain a list of information pertaining to all occurrences of mercury associated with the major sub-systems and components, or project activity. The listing shall contain the following information in tabular format (Annex C illustrates an example of the tabular format):
10.2.3.4.1	Equipment NSN (for equipment containing mercury);
10.2.3.4.2	Equipment Description;
10.2.3.4.3	NSN and Defence Resource Management Information System (DRMIS) unique identifier of the item containing mercury (if it exists);
10.2.3.4.4	Manufacturer of mercury-containing item;
10.2.3.4.5	Date of manufacture of the mercury-containing item;
10.2.3.4.6	Manufacturer part number of mercury-containing item;
10.2.3.4.7	National Supply Code for Manufacturers of items containing mercury: (NSCM)/Commercial and Government Entity (CAGE) Code;
10.2.3.4.8	Description of mercury-containing item;
10.2.3.4.9	The form of mercury (egs liquid, vapour, amalgam, metal halide);
10.2.3.4.10	Quantity of mercury (kg mass);
10.2.3.4.11	Volume of mercury (L) and its concentration in ppm (either 10.2.3.4.10 or 10.2.3.4.11 is required, however, both can be provided);

10.2.3.4.12	The location of the mercury-containing item(s);
10.2.3.4.13	Quantity of mercury containing item per reported equipment; and
10.2.3.4.14	Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration).
10.2.3.5	Consultation
10.2.3.5.1	Internal. This section shall list all applicable internal consultations performed in order to produce the EHSIR; and
10.2.3.5.2	External. This section shall list all applicable external consultation performed in order to produce the EHSIR.
10.2.3.6	Documentation
10.2.3.6.1	Regulations and Policies. This section shall list all applicable Canadian regulations and policies; and
10.2.3.6.2	Other references. This section shall list the references and material used to produce the EHSIR.
10.2.3.7	Site Visits – This section shall comment on the reasons and results of visits conducted; otherwise it shall be titled and identified as “No site visits required”.
10.2.3.8	Existing Environment – This section shall identify the boundaries of the environment considered and provide an appropriate description of the environment(s) affected.
10.2.3.9	Environmental Effects – This section shall contain a completed matrix for each of the applicable components and activities (and their associated sub-activities) involving the system throughout the life cycle phases (engineering and manufacturing, test and evaluation, production and delivery, operation and maintenance, demilitarization and disposal). For components with Ionizing Radiation hazard, each activity shall be considered in both normal and non-normal situations. To identify potential environmental, health and safety effects, each matrix shall be completed as follows:
10.2.3.9.1	In the left-hand column, list the system components/activities. Across the top of the matrix, list the Valued Ecosystem Components (VECs) relevant to the study area.
10.2.3.9.2	Examine each place where a component intersects with an environmental component for each life cycle and determine whether there is a potential significant effect. <u>Annex D</u> illustrates a sample matrix. The VECs on the matrix are only a guide to typical environmental components. Adapt the matrix as needed in accordance with the site specific VECs.
10.2.3.10	Summary of Hazards and Impacts – This section shall present the written results on the investigations of the impact of the environmental, health and safety aspects/hazards throughout the different life cycle phases. Each sub-system or activity shall be addressed for their environmental impact or risks as identified in Annex A and Annex D. All regulated substances/activity shall be assessed for compliance and problem areas identified with mitigations measures. Each sub-system or activity shall be addressed under the following headings (sub-titles may be used for each Life Cycle Phase, Sub-System/Activity):
10.2.3.10.1	Description of Subsystem/Component/Activity: A description of the sub-system, component or activity and its interaction with the environment;
10.2.3.10.2	EHS Aspect: Identify the EHS Aspects (Annex F refers) associated with the Subsystem/Component/Activity throughout all life cycle phases (Annex A refers).
10.2.3.10.3	VECs Affected: Identify the VECs associated with the Subsystem/Component/Activity throughout all life cycle phases (Annex D refers)

10.2.3.10.4	Component/Activity Impact: Prediction of the environmental effects from each interaction and its impact, as well as any impacts that will require mitigation measures;
10.2.3.10.5	Mitigations Measures: Identify the appropriate mitigation measures required. Mitigation is the elimination, reduction, or control of adverse environmental effects, including restitution for any damage to the environment through replacement, restoration, compensation, or any other means.
10.2.3.10.6	Significance: Assess/Determine the environmental impact with mitigation measures in place. The EA must determine whether the environmental affects are adverse, likely, and are they significant.
10.2.3.10.7	Compliance Monitoring: Identify what compliance monitoring is required and the responsible person/office to conduct the monitoring.
10.2.3.10.8	Follow-Up Plans: Predict any cumulative/residual effects and the need to follow-up. Identify the follow-up plans with the reasons for them.
10.2.4 PART III – CONCLUSION	
10.2.4.1	Conclusion – This section shall summarize the main findings of the EHSIR and identify the major mitigation measures taken or required to assure sustainable development, and identify the major follow-up measures necessary.
<b>Annexes</b>	
Annex A –	Major Subsystem Assessment Table
Annex B –	Table of Hazardous Products
Annex C –	Items Containing Mercury
Annex D –	Environmental Effects Matrix
Annex E –	Material Safety Data Sheets (Annex E shall contain the Material Safety Data Sheets (MSDS) for all hazardous products identified in section 10.2.3.2.2 and 10.2.3.3.)
Annex F –	Listing of Possible EHS Aspects
Annex G -	Accelerated Reduction / Elimination of Toxics (ARET) Substance list





## Annex A – Major Sub-system EHS Impact Table

EHS Hazard Type

### A- Ionizing Radiation

B- Electromagnetic Radiation

C- Noise

### D- Vibration

## E- Hazardous Gases

## F- Hazardous Liquids

### G- Hazardous Solids

H- Others

Life Cycle Phase

## 1- Engineering and Manufacture

## 2- Test and Evaluation

### 3- Production and Deployment

#### 4- Maintenance and Operations

## 5- Demilitarization and Disposal

[illegible]

1. Major Sub-system – Enter the appropriate sub-system that the identified hazard is associated with (eg, for a vehicle fleet, sub-system identification by vehicle configuration (Equipment Configuration Code – Cargo, MRT, Recovery, etc) and its Equipment Support List – Chassis, Engine, Brake, Electrical, Engine, Transmission, etc) may be used).
2. Significance – This column shall provide the measurement of the hazard for validation of significance (e.g., for noise, indicate decibel levels).

Statement of Work  
Contract Data  
Data Item Descriptions

Request For Proposal W8476-06-MSMP/L

## Annex B – Table of Hazardous Products

[illegible]

Annex C-Items Containing Mercury

Ser	Information Requested	Mercury Containing Item Details			
		Item 1	Item 2	Item 3	Item 4...
1	Equipment NSN (for equipment containing mercury)				
2	Equipment Description				
3	NSN and Defence Resource Management Information System (DRMIS) unique identifier of the item containing mercury (if it exists)				
4	Manufacturer of mercury-containing item				
5	Date of manufacture of the mercury-containing item				
6	Manufacturer part number of mercury-containing item				
7	National Supply Code for Manufacturers of items containing mercury: (NSCM)/Commercial and Government Entity (CAGE) Code				
8	Description of mercury-containing item;				
9	The form of mercury (egs liquid, vapour, amalgam, metal halide)				
10	Quantity of mercury (kg mass)				
11	Volume of mercury (L) and its concentration in ppm [provide either mass (Serial 11) or volume/concentration of mercury, but not both]				
12	The location of the mercury-containing item(s)				
13	Quantity of mercury containing item per reported equipment				
14	Total Quantity of mercury within the reported equipment (for kg mass and volume/concentration);				
15	Material Safety Data Sheet, where possible				

Annex D – Environmental Effects Matrix

Annex E-  
Data Sheets

PROJECT Sub-system  Enter each sub-system e.g. phases of construction, aspect of operation.	Valued Ecosystem Components  (Add to/ delete from matrix below as necessary)  Show potential effects with a “X”																				
	Physical								Biological						Social						
	Atmosphere	Surface water	Ground water	Soils	Terrain	Vibration	Noise		Terrestrial animals	Terrestrial habitat	Aquatic animals	Aquatic habitat	Vegetation		Heritage/historical	Recreation/Aesthetic	People/health	Economy	Services	Land use	
Body Paint																					
Engine (noise, vibration, etc.)																					
Brake Shoes																					
Road Wheels																					

Material Safety  
(MSDSs)

MSDS Identifier	Product	Product Part Number	MSDS (may be embedded here or identified and then attached to covering page)

An Environmental Health and Safety (EHS) aspect is defined as an activity, product or service that can interact with the environment, human health or safety. The list provided herein is not inclusive, and is only an example of what might be considered when preparing an Environmental Health and Safety Impact Report. Aspects and their risk are those associated with the activity, product or service being specifically addressed. Regulations or standards may, or may not, apply to the specific EHS aspect.

- 1. Accelerated Reduction and Elimination of Toxics (ARET) substances
- 2. Adhesives and Sealants
- 3. Air Conditonants / Refrigerants
- 4. Asbestos
- 5. Batteries
- 6. Bulk and Weight of Components
- 7. CEPA Schedule 1 Substances
- 8. Challenge to Industry Substances
- 9. Cleaning and cleaners
- 10. Coatings/Painting
- 11. Compressed Gases/Fluids
- 12. Contamination / Decontamination
- 13. Demilitarization and Disposal
- 14. Disposal
- 15. Electrical and Power Sources
- 16. Emission Hazards – Enclosed Spaces
- 17. Equipment Condition
- 18. Exhaust Emissions
- 19. Fire Extinguishing Systems
- 20. Firing Damage and Damage from operations
- 21. Floorboards and Hull Plates
- 22. Fuel Consumption
- 23. Fuels, Fluids and Lubricants
- 24. Hazardous consumables
- 25. Heavy Metals
- 26. High Temperature Hazards
- 27. Ionizing Radiation – Normal and Abnormal
- 28. Iron / Aluminum Metal Work (Thermite)

Medium Support Vehicle System  
Standard Military Pattern

Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

- 29. Lasers
- 30. Materials of environmental concern
- 31. Mercury Sources
- 32. Metal Work
- 33. Modifications
- 34. National Pollutant Release Inventory (NPRI) substances
- 35. Noise, Vibrations and Ground Pressure
- 36. Non-Ionizing Radiation – Lasers, UV, Radio, Radar
- 37. Operator Safety
- 38. Ozone Depleting Substances
- 39. Precious Metals
- 40. Polychlorinated Biphenyls
- 41. Radars
- 42. Recycling and Reusing
- 43. Regulated Activity/Material/Substance
- 44. Rubbers, Plastics, Polymers and Composites
- 45. Shielding
- 46. Spills and Spill Reporting
- 47. Storage - Fuels, Fluids and Lubricants
- 48. Tires
- 49. Wastes – Solids, Liquids and Gases
- 50. Wastes – Hazardous Solids, Liquids and Gases

**Annex G – Acceleration Reduction/Elimination of Toxics (ARET) Substance list**

Following is the ARET list of substances for action. These substances were selected from a list of chemicals detected in the Canadian environment. There is evidence that these substances 1)may have the potential to have harmful effects on human, animal, or plant life; 2) may tend to degrade very slowly in the environment; and/or 3)may tend to accumulate in living organisms. This listing was meant to guide priorities and is not meant to imply that actual harm is currently being caused by these substances. The ARET substances have been rank-ordered based on their intrinsic properties. Decisions concerning priority for action were made by the managers of participating facilities. The substances have been categorized by chemical grouping and are accompanied by Chemical Abstracts Service Registry Number (CASRN) for ease of use with WHMIS (Workplace Hazardous Materials Information System) and NPRI (National Pollutant Release Inventory) data management systems.

**LIST A-1** (meets or exceed criteria for toxicity, bioaccumulation and persistence)

ARET's vision for substances on this list is the virtual elimination of emissions into the environment from human activities. The sort-term goal is for a 90 percent reduction in emissions by 2000.

<u>SUBSTANCE</u>	<u>CASRN</u>
Benzo(a)anthracene .....	56-55-3
Benzo(a)pyrene.....	50-32-8
Benzo(e)pyrene.....	192-97-2
Benzo(b)fluoranthene .....	205-99-2
Benzo(j)fluoranthene .....	205-82-3
Benzo(k)fluoranthene .....	207-08-9
Benzo(g,h,i)perylene.....	191-24-2
Chrysene .....	218-01-9
Dibenz(a,h)anthracene.....	53-70-3
Dibenzo(a,i)pyrene .....	189-55-9
Dibenz(a,j)acridine .....	224-42-0
7H-dibenzo(c,g)carbazole.....	194-59-2
Fluoranthene .....	206-44-0
Ideno(1,2,3-c,d)pyrene.....	193-39-5
Perylene .....	198-55-0
Phenanthrene .....	85-01-8
Pyrene .....	129-00-0
 Nitro-PAHs	
1,6-dinitropyrene .....	42397-64-8



1,8-dinitropyrene .....	42397-65-9
Chlorinated organics	
Hexachlorbenzene .....	118-74-1
alpha-hexachlorocyclohexane.....	319-84-6
gamma-hexachlorocyclohexane.....	58-89-9
4,4-methylenebis(2-chloroaniline).....	101-14-4
Octachlorostyrene.....	29082-74-4
Pentachlorphenol .....	87-86-5
2,3,7,8-tetrachlordibenzofuran.....	51207-31-9
2,3,7,8-tetrachlorodibenzo-p-dioxin .....	1746-01-6
SUBSTANCE	CASRN
Metal compounds	
*Methyl mercury .....	22967-92-6
Tributyltin.....	688-73-3

**LIST A-2**

ARET's goal for substances on this list is for the reduction of emissions to levels that are insufficient to cause harm.

The short-term goal is for significant reduction in emissions.

SUBSTANCE	CASRN
* 1,4 dichlorobenzene.....	106-46-7
**Cadmium compounds (respirable & soluble inorganic forms).	N/A

\*The toxicity criterion was met for possible carcinogenicity by accepting IARC (International Agency for Research on Cancer) classification of "possible human carcinogen."  
\*\*The selection process was unable to take into account specific metal compounds, and therefore scores for metals were based on a composite score for several metal species. For cadmium, actions may be tailored to such compounds as CdCO3, Cd(OH)2, CdCl2, CdO, and CdSO4. The concept of virtual elimination of discharges for metals is under discussion and was not resolved by ARET.

**LIST B**

For the List B substances, the vision is reduction of emissions to levels that are insufficient to cause harm. The short-term goal is a 50 percent reduction by 2000.

**LIST B-1**(meet or exceed criteria for toxicity & bioaccumulation)

SUBSTANCE	CASRN
PAHs Anthracene.....7,12-	120-12-7
dimethylbenz(a)anthracene.....	57-97-6 Dimethylnaphthalene..... 28804-88-8
Chlorinated ogranics 3,3'-dichlorbenzidine .....	91-94-1
Hexachlorocyclopentadiene..... 2,4,6-	77-47-4
trichlorophenol .....	88-06-2
Other bis(2-ethylhexyl)phthalate .....	117-81-7
*Tetraethyl lead .....	78-00-2

\*Degrades to lead, which is persistent (see List B-2)

**LIST B-2** (meet or exceed persistence & toxicity criteria)

SUBSTANCE	CASRN
<b>PAHs</b>	
Benzo(a)fluorene .....	238-84-6
Benzo(b)fluorene .....	30777-19-6
Dibenzo(a,h)acridine .....	226-36-8
<b>Chlorinated organics</b>	
alpha-chlorotoluene .....	100-44-7
bis(2-chloroethyl)ether .....	111-44-4
Bromodichloromethane .....	75-27-4
Carbon tetrachloride .....	56-23-5
Chloroform .....	67-66-3
Chlorodibromomethane .....	124-48-1
1,2 dichlorethane .....	107-06-2
Methylene chloride .....	75-09-2
1,1,2,2-tetrachlorethylene .....	127-18-4
2,3,4,6-tetrachlorphenol.....	58-90-2
<b>Metal compounds</b>	
Arsenic (inorganic) .....	N/A*

Statement of Work  
Contract Data  
Data Item Descriptions

Request For Proposal W8476-06-MSMP/L

Asbestos.....	1332-21-4
Beryllium.....	7440-41-7
Chromium (Cr6+) .....	N/A*
Cobalt (inorganic, soluble) .....	N/A*
Copper (inorganic salts).....	N/A*
**Lead (all forms except alkyl).....	N/A*
***Mercury (elemental and inorganic).....	N/A*
Nickel (inorganic, respirable, soluble).....	N/A*
Silver (soluble inorganic salts) .....	N/A*
Uranium (Inorganic, respirable, soluble) .....	N/A*
Zinc (inorganic, respirable, soluble) .....	N/A*
Other	
o-anisidine .....	90-04-0
Cyanides .....	57-12-5
4,6 dinitro-o-cresol .....	534-52-1
1,4 dioxane .....	123-91-1
Ethylene oxide .....	75-21-8
2-naphthylamine .....	91-59-8
2-nitropropane .....	79-46-9
Thiourea.....	62-56-6

\*CASRN not applicable. The selection process was unable to take into account specific metal compounds, and therefore scores for metals were based on a composite score for several metal species. \*\*See also tetraethyl lead on List B-1 \*\*\*See also methyl mercury on List A-1

**LIST B-3** (meet or exceed toxicity criteria)

SUBSTANCE	CASRN
Chlorinated organics	
bis(chloromethyl)ether.....	542-88-1
Epichlorhydrin .....	106-89-8
1-bromo-2-chlorethane .....	107-04-0
1-chloro-4-nitrobenzene .....	100-00-5
1,2-dibromo-3-chlorpropane.....	96-12-8
1,2-dichlorobut-3-ene .....	760-23-6

Statement of Work  
Contract Data  
Data Item Descriptions

Request For Proposal W8476-06-MSMP/L

2,4-dichlorophenol.....	120-83-2
1,3-dichlorpropene.....	542-75-6
1,1,2-trichloroethylene.....	79-01-6
Aromatics	
4-aminoazobenzene .....	60-09-3
4-aminobiphenyl.....	92-67-1
Aniline .....	62-53-3
Benzene .....	71-43-2
Benzidine.....	92-87-5
Dimethylphenol (mixed isomers) .....	1300-71-6
2,6-dimethylphenol.....	576-26-1
2,4-dinitrotoluene .....	121-14-2
2,6-dinitrotoluene .....	606-20-2
1,2-diphenylhydrazine .....	122-66-7
2-methylpyridine .....	109-06-8
Phenol .....	108-95-2
Toluene diisocyanates.....	26471-62-5
Nitrosamines	
N-nitrosodimethylamine .....	62-75-9
N-nitrosodiphenylamine .....	86-30-6
N-nitroso-di-n-propylamine.....	621-64-7
Other	
Acetaldehyde .....	75-07-0
Acetamide.....	60-35-5
Acrolein .....	107-02-8
Acrylamide .....	79-06-1
Acrylonitrile.....	107-13-1
1,3-butadiene .....	106-99-0
Chlorine dioxide .....	10049-04-4
n-dodecane.....	112-40-3
Ethanol.....	64-17-5
Ethylene dibromide.....	106-93-4
Ethylene thiourea.....	96-45-7
Formaldehyde .....	50-00-0
Hydrazine .....	302-01-2

Medium Support Vehicle System  
Standard Military Pattern

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to

Statement of Work  
Contract Data  
Data Item Descriptions

Request For Proposal W8476-06-MSMP/L

Hydrogen sulphide.....	7783-06-4
Methyl isobutyl ketone .....	108-10-1
4-nitrosomorpholine .....	59-89-2
Quinoline .....	91-22-5
Tetramethylthiuram disulphide.....	137-26-8
Vinyl bromide.....	593-60-2

DID SMP-ISS-035 Contractor Capability and Facility Survey

1. TITLE Contractor Capability and Facility Survey		2. IDENTIFICATION NUMBER SMP-ISS-035	
3. DESCRIPTION/PURPOSE This survey is required to assess a Contractor’s capability and facilities.  This DID is a legacy DID from the SMP Acquisition Contract and is provided for update purposes only.			
4. APPROVAL DATE N/A	5. OFFICE OF PRIMARY INTEREST ILSM		6. GIDEP APPLICABLE N/A
7. APPLICATION/INTERRELATIONSHIP Annex B			
8. ORIGINATOR ILSM		9. APPLICABLE FORMS N/A	

Medium Support Vehicle System  
Standard Military Pattern

Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

<b>10. PREPARATION INSTRUCTIONS</b>	
10.1. Provide updated information for changed items for which the original information was provided in the Acquisition Contract and for newly introduced items for which information has not yet been provided	
PART 1 -	
Supplier: _____	Address: _____
Contact Name: _____	Position: _____
Telephone: _____	Fax: _____
Form completed by: _____	
PART 2 –	
Responses to all questions in Table 1 attached below to this DID are to be provided and amplified with justification in remarks column. Additional information can be provided in attachment(s) to the survey.	

Table 1 - CONTRACTOR CAPABILITIES AND FACILITIES SURVEY – Revision 1				
Corporate Environmental Performance	Yes	No	N/A	Remarks/Comments
1. Does your company comply with all applicable Canadian EHS regulations and codes of practice? Canadian legislation can be found at sites such as: <a href="http://laws-lois.justice.gc.ca/Search/">http://laws-lois.justice.gc.ca/Search/</a> (Attach list to identify which acts, regulations, etc)				
2. Your company and/or its officers have been without an EHS charge or offence anywhere within the last five years? (If no, please explain)				
3. Has your company developed an Environmental policy? <ul style="list-style-type: none"> <li>If yes, a copy of the formalized Environmental policy is to be submitted with this survey;</li> </ul>				
4. Has your company developed an Occupational Health and Safety (OHS) policy? <ul style="list-style-type: none"> <li>If yes, a copy of the formalized policy is to be submitted with this survey.</li> </ul>				
5. Does your company have an Environmental Management System (EMS) and is that system ISO 14001 certified?? <ul style="list-style-type: none"> <li>If yes, please attach a copy a current (issued within the last 3 years) ISO 14001 registration certificate, or a copy of the organization's EMS.</li> <li></li> </ul>				
6. Are the employees currently trained on the identification, classification and regulatory requirements pertaining to the safe use of hazardous materials/controlled products including labelling and Material Safety Data Sheets (MSDSs)? [Note: in Canada this is known as WHMIS training] <ul style="list-style-type: none"> <li>If yes, please identify the number of personnel trained during the last 3 years in the area of the work to be conducted. (Note that training records may be verified).</li> </ul>				



Table 1 - CONTRACTOR CAPABILITIES AND FACILITIES SURVEY – Revision 1				
Corporate Environmental Performance	Yes	No	N/A	Remarks/Comments
7. Has your staff been trained on the transportation of dangerous goods? <ul style="list-style-type: none"> <li>If yes, please identify the number of personnel trained in transportation of dangerous goods during the last 3 years in the area of the work to be conducted. (Note that training records may be verified).</li> </ul>				
8. Are personnel protective equipment (PPE) and engineering controls in place to mitigate Environmental Health and Safety Risks? <ul style="list-style-type: none"> <li>If yes, identify the personnel protective equipment and engineering controls that will be used within the facilities by task that is associated with the requirements of the Work?</li> </ul>				
9. Does the facility have a hazardous material inventory management system in place for their receipt, storage, use and disposal of hazardous material? <ul style="list-style-type: none"> <li>If yes, describe in detail how hazardous material, including hazardous wastes, are accounted for within the facility, or provide a copy of the management system manual,</li> </ul>				
10. Does the facility have a comprehensive Emergency Response Plan, including spills, in place? <ul style="list-style-type: none"> <li>If yes, a copy of the Emergency Response Plan(s) is to be provided;</li> </ul>				

Medium Support Vehicle System  
Standard Military Pattern  
ISS Contract  
Statement of Work  
Contract Data  
Data Item Descriptions

Attachment BI-2  
Appendix BI to  
Annex B to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

**DID SMP-ISS-036 Not Used**

**Not Used**

**DID SMP-ISS-037 Contractor-Held Inventory (CHI) Report**

DATA ITEM DESCRIPTION		
DND Form 1409		
<b>1. TITLE</b> Contractor-Held Inventory (CHI) Report	<b>2. IDENTIFICATION NUMBER</b> SMP-ISS-037	
<b>3. DESCRIPTION/PURPOSE</b> <p>The CHI Report provides a standard input for collection of the information required for the accrual accounting entries into the DND Financial Statements. The fundamental requirement of the CHI Report is to demonstrate the procedures, methods, organisation and lines of communication that will be used by the Contractor to integrate all CHI related information on Contractor and subcontractor conduct and progress of the R&amp;O work and to provide proper visibility of CHI.</p>		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST</b> ILSM	<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex B		
<b>8. ORIGINATOR</b> ILSM	<b>9. APPLICABLE FORMS</b> A-LM-184-001/JS-001	
<b>10. PREPARATION INSTRUCTIONS</b> 10.1. <u>Content and Format requirements.</u> 10.1.1. The CHI Report shall be in the Contractor's format, using best commercial practices for charts, tables, matrices, page numbering and document control numbering. 10.1.2. The CHI Report shall detail and consolidate the management and administrative procedures to be used to manage the CHI on the contract. 10.2. The Attachments to this DID contain suggested formats for the submission of Summary (Attachment 1), Detailed (Attachment 2) and Supplementary (Attachment 3) information required in the CHI Report. However, reports provided by the company inventory system are acceptable for reporting purposes to DND as long as they contain the essential information requested in the applicable Attachments. 10.2.1. These are standardized templates and contain certain items that are not applicable to this contract, e.g. AAS. Enter N/A for such items. 10.2.2. A separate CHI Report is required and for Consumable Inventory and Repairable Inventory. If the inventory cannot be reported/separated on the basis of consumable versus repairable, the report shall state what the majority of the inventory would be classified as - repairable or consumable based on the following definitions: <ul style="list-style-type: none"> <li>Government Furnished Overhaul Spares (GFOS) are non-catalogued inventory spares which are not purchased by the Contractor but arise from: AAS transferred from another contractor; DND procurement with the US government; spares salvaged from DND equipment; or de-catalogued Contract Issue Spares (CIS) which are only to be used for 3rd line. GFOS spares</li> </ul>		

	are not recorded in the Canadian Forces Supply System (CFSS).
	<ul style="list-style-type: none"><li>• Accountable Advance Spares (AAS) - are non-catalogued inventory spares which the Contractor has been authorized to purchase, on an exceptional basis, by DND using DND funds. AAS are not recorded in the CFSS.</li><li>• Bonded Stock - are inventory spares, which an Out of Country contractor has been authorized to purchase, on an exceptional basis, by DND using DND funds. Bonded stock is not recorded in the CFSS.</li><li>• Repairable Inventory – An item of supply, which is designated as capable of being repaired.</li><li>• Consumable Inventory – An item of supply that is not repairable.</li></ul>
10.2.3.	The following information should also be provided, if available: <ul style="list-style-type: none"><li>• Alternate part numbers or manufacture part numbers in addition to the part number listed in Attachment 2 mentioned above;</li><li>• Any additional field information that may help to classify the data; and/or</li><li>• The Class of the item per 10.2.2.</li></ul>
10.2.4.	Loaned equipment from DND is not to be reported. Whole Capital assets are not to be reported.
10.2.5.	Whole assets are equipment that has been purchased by DND for the Contractor that is not inventory - i.e. vehicles, test equipment, etc).
10.2.6.	<u>Source of Equipment</u> . Identify the stores from which CHI is issued.

**ATTACHMENT 1 to DID SMP-ISS-037**

**CONTRACTOR HELD INVENTORY REPORT  
INPUT/OUTPUT INVENTORY REPORT  
FOR THE YEAR ENDING 31 MAR XX**

OPENING INVENTORY AS AT 1 APR XX	\$XXX.XX
Plus: Cost of Goods Purchased or Acquired (by part number). See Note 3:	
a. GFOS	\$XX.XX
b. AAS	\$XX.XX
c. Bonded Stock	\$XX.XX
TOTAL INFLOWS	\$ XX.XX
Minus: Cost of Goods Consumed/Disposed or Written Off (by part number). See Note 3:	
Consumption	
a. GFOS consumption	\$XX.XX
b. AAS consumption	\$XX.XX
c. Bonded Stock	\$XX.XX
Disposals	
a. GFOS disposals	\$XX.XX
b. AAS disposals	\$XX.XX
c. Bonded Stock	\$XX.XX
Write-offs/adjustments	
a. GFOS write-offs/adjustments	\$XX.XX
b. AAS write-offs/adjustments	\$XX.XX
c. Bonded Stock/adjustments	\$XX.XX
TOTAL OUTFLOWS	\$ XX.XX
CLOSING INVENTORY AS AT 31 MAR XX	\$XXX.XX

**Notes:**

1. The closing inventory as at 31 Mar XX must be equal to the itemized listings provided in the consumable and repairable reports of 'DND Owned Inventory Holdings as a 31 Mar XX.'
2. A separate Input/Output Inventory Report is required for Consumable Inventory and Repairable Inventory.
3. If the data can be provided in a part number level format detailing the equipment platform supported this would be preferred but the summary level report as outlined above is acceptable.
4. Report in one currency only and specify the currency if it is not Canadian.

**END OWNED INVENTORY HOLDINGS**  
**AS AT 31 MAR XX**

[illegible]

- Page 88 of 93

**ATTACHMENT 3 to DID SMP-ISS-037**

<b>CONTRACTOR HELD INVENTORY REPORT</b>	
<b>ADDITIONAL INFORMATION REQUESTED FOR YEAR-END REPORTING</b>	
Description of the activities performed under the R&O contract(s) supported by the inventory holdings if not supplied on Attachment 2	
How often is a stocktaking performed on the Contractor holdings of DND owned inventory.	
Date of last stocktaking.	
What accounting method is used by the Contractor to value the inventory reported (FIFO, LIFO, historical cost or moving weighted average).	
DND and Contractor point of contact for the inventory report as at 31 Mar XX.	

**DID SMP-IRB-001 Industrial and Regional Benefits (IRB) Report**

DATA ITEM DESCRIPTION		
1. TITLE Industrial and Regional Benefits (IRB) Annual Report	2. IDENTIFICATION NUMBER DID SMP-IRB-001	
3. DESCRIPTION/PURPOSE The IRB Annual Report reports IRB achievements against Contractual commitments.		
4. APPROVAL DATE N/A	5. OFFICE OF PRIMARY INTEREST (OPI) Industry Canada IRB Authority	6. GIDEP APPLICABLE N/A
7. APPLICATION/INTERRELATIONSHIP Annex F		
8. ORIGINATOR Industry Canada IRB Authority	9. APPLICABLE FORMS N/A	
10. PREPARATION INSTRUCTIONS  10.1. The Contractor must submit to the IRB Authority, through the PWGSC Contracting Authority (CA), annual IRB Reports based on the performance achieved during the IRB Reporting Periods noted in this Contract. Each annual IRB Report shall consist of four parts.  10.2. Content:  Part A. The Canadian Content Value (CCV) achieved in total since the beginning of the IRB Achievement Period for each of the following: i. total IRB; ii. direct IRB; iii. indirect IRB; iv. IRB by period; v. IRB in each of the individual regions; vi. IRB with small and medium business; and vii. each IRB transaction.  Part B. The CCV achieved since the last IRB Annual Report for: i. total IRB; ii. direct IRB; iii. indirect IRB; iv. IRB in each of the individual regions;		



- v. IRB with small and medium business; and
- vi. each IRB transaction.

Part C. For each IRB Transaction being reported, a description of the achievements, activities, delays and/or problems. A plan of action to resolve any difficulties.

Part D. A summary that shall include:

- i. the total amount of progress payments or invoices submitted by the Contractor for work completed since the Effective Date of the Contract;
- ii. a forecast of IRB achievements;
- iii. a description of Small and Medium Business development activities undertaken during the reporting period;
- iv. an explanation of any IRB shortfall in achievement evident from the data in Part A, and a plan of action to resolve the problem;
- v. a list of the IRB Transactions, which had been approved by the IRB Authority, which have since been cancelled, terminated, added or substantially altered during the reporting period, the details of any requested changes, their status vis-à-vis Contract amendment, and the reasons thereof;
- vi. a brief narrative describing, on an exception basis, any noteworthy developments with respect to Regional and Small Business marketing considerations; and
- vii. a description and explanation of any proposed changes to the IRB Management Plan.

#### 10.3 Additional Information:

As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the IRB Annual Reports, a Certificate of Compliance, signed off by the senior company Comptroller, in respect of each IRB Transaction for which there was activity in that Reporting Period. The Certificate of Compliance also covers those IRB achievements of the Contractor's Eligible Parties and sub-contractors.

**DID SMP-IRB-002 Tranche 2 of Proposed IRB Transactions**

DATA ITEM DESCRIPTION		
<b>1. TITLE</b> Tranche 2 of proposed IRB Transactions	<b>2. IDENTIFICATION NUMBER</b> DID SMP-IRB-002	
<b>3. DESCRIPTION/PURPOSE</b> Contractor shall submit acceptable IRB Transactions, which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV.		
<b>4. APPROVAL DATE</b> N/A	<b>5. OFFICE OF PRIMARY INTEREST (OPI)</b> Industry Canada IRB Authority	<b>6. GIDEP APPLICABLE</b> N/A
<b>7. APPLICATION/INTERRELATIONSHIP</b> Annex F		
<b>8. ORIGINATOR</b> Industry Canada IRB Authority	<b>9. APPLICABLE FORMS</b> N/A	
<b>10. PREPARATION INSTRUCTIONS</b> For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.		

**DID SMP-IRB-003 Tranche 3 of Proposed IRB Transactions**

DATA ITEM DESCRIPTION		
1. TITLE Tranche 3 of proposed IRB Transactions		2. IDENTIFICATION NUMBER DID SMP-IRB-003
3. DESCRIPTION/PURPOSE Contractor shall submit acceptable IRB Transactions, which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.		
4. APPROVAL DATE N/A	5. OFFICE OF PRIMARY INTEREST (OPI) Industry Canada IRB Authority	6. GIDEP APPLICABLE N/A
7. APPLICATION/INTERRELATIONSHIP Annex F		
8. ORIGINATOR Industry Canada IRB Authority		9. APPLICABLE FORMS N/A
10. PREPARATION INSTRUCTIONS For each IRB Transaction, the information submitted must be in the same format as that which was used for the IRB Proposal submitted at bid closing.		

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 - Resulting Contract - ISS

ANNEX B - STATEMENT OF WORK

APPENDIX BJ - GOVERNMENT SUPPLY

Government Furnished Equipment (GFE)								
ITEM	NSN	Description	Qty	Delivery Date	Delivery Destination	CTAT	ITAR	Comments

Government Supplied Material (GSM)

ITEM	NSN	DESCRIPTION	QTY	Delivery Date	Delivery Destination	CTAT	ITAR	COMMENTS

Government Furnished Information (GFI)							
ITEM	DOC. NUMBER	DOCUMENT NAME	Delivery Date	Delivery Destination	CTAT	ITAR	COMMENTS
1	A-EN-007-000/FP-001	DND Environmental Assessment Manual	RFP release				
2	A-LM-007-014/AG-001	Canadian Forces Supply Manual	RFP release				
3	A-LM-184-001/JS-001	Special Instructions for Repair and Overhaul Contractors	RFP release				
4	A-IM-100-000/AG-001	Certification and Accreditation Guide	RFP release				
5							
6	A-SJ-100-002/AS-001	DND Operational Security Standard for Information Systems	RFP release				
7	B-GL-342-001/FP-000	Canadian Forces Land Equipment Maintenance Systems (LEMS)	RFP release				
8	C-02-006-002/AG-000	Information Marking on Canadian Forces Equipment	RFP release				

Government Furnished Information (GFI)							
ITEM	DOC. NUMBER	DOCUMENT NAME	Delivery Date	Delivery Destination	CTAT	ITAR	COMMENTS
9	C-02-015-001/AG-000	Policy Procedures and Guidelines, unsatisfactory Condition Reporting	RFP release				
10	D-01-100-215/SF-000	Preparation of Material Change Notices (MCN) for Canadian Forces Equipment	RFP release				
11	D-02-002-001/SG-001	Canadian Forces Standard Identification Marking of Canadian Military Property	RFP release				
12	D-84-001-007/SF-001	Specification for General Purpose Shipping Container Electronic Assemblies	RFP release				
13	D-LM-008-001/SF-001	Method of Packaging	RFP release				
14	D-LM-008-002/SF-001	Marking for Shipment and Storage	RFP release				
15	D-LM-008-015/SF000	Packaging Specifications for Piezoelectric Crystals	RFP release				



Government Furnished Information (GFI)							
ITEM	DOC. NUMBER	DOCUMENT NAME	Delivery Date	Delivery Destination	CTAT	ITAR	COMMENTS
16	D-LM-008-026/SF-001	Packaging of Preformed Packings, Gaskets or Seals ( Rubber Natural/Synthetic, Cork, Asbestos or Leather)	RFP release				
17	D-LM-008-030/SF-001	Specification for the Packaging of Hose, Rubber, Plastic, Fabric or Metal (Including Tubing) and Fittings, Nozzles and Strainers	RFP release				
18	D-LM-008-035/SF-001	Specification for Electrostatic Discharge Protective Packaging - Electronic Parts Assemblies and Equipment	RFP release				
19	D-LM-008-036/SF-000	Department of National Defence Minimum Requirements for Manufacturer's Standard Pack	RFP release				
20	D-LM-008-037/SF-000	Packaging of Bearings, Antifriction (Other than Instrument Precision Bearings)	RFP release				

**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex B

STATEMENT OF WORK

APPENDIX BK - LOAN AGREEMENT

**Covering the loan of Department of National Defence equipment through the Disposal, Sales, Artifacts and Loans Office**

**DSAL loan No**

1. Submit original copy to Disposal, Sales, Artefacts and Loans for processing.
2. The following items are not to be included in this Agreement: consumable materials, equipment for catering contractors or commercially available equipment.

<b>Contract Number:</b>	<b>Contract Description</b>
<b>If Applicable, date requested for equipment:</b>	<b>Expiry date:</b>
<b>Address of Contractor:</b>	<b>Address for equipment delivery:</b>

**This Loan Agreement is made by and between:**

The Minister of National Defence (Lender) and \_\_\_\_\_ Contractor Corporate Name (Borrower)

Witnesseth

For and in consideration of the performance of the Terms and Conditions hereinafter referred to, the parties hereto agree as follows:

1. The Lender hereby loans to the Contractor and the Contractor hereby borrows all the equipment listed in Schedule "A-B-C" hereto, hereinafter referring to "the equipment" in the Terms and Condition, applicable to the type of defence work to be performed by the Borrower pursuant to this Loan Agreement.
2. Schedules "A-B-C" are hereby made a part of this Agreement.
- In witness thereof the parties hereto have executed these presents.

<b>Minister of Department of National Defence (lender)</b> <b>Recommended by:</b> DND Requisitioning Authority	<b>Contractor (Borrower)</b>
<div>Name and Title</div> <div>SignatureDate</div>	<div>Per:</div> <div>Name and Title</div> <div>SignatureDate</div>
<b>Approved by:</b> Section Head - Disposal, Sales, Artefacts and Loans for the Minister of National Defence	<div>SEAL</div> <div></div>
<div>Name</div> <div>SignatureDate</div>	

## **TERMS OF LOAN AGREEMENT**

### **Terms Applicable to Contracted Defence Work**

#### **Loan Type / Accounting**

1. All equipment issued under the Contract Loan Account (CLA) 00A8BW shall be accounted for as per the Canadian Forces Supply System (CFSS) automated procedures in accordance with A-LM-007-014/AG-001 and/or A-LM-184/JS-001.
2. All equipment loaned as Special Production Tooling/Special Test Equipment (SPT/STE) shall be accounted for in either a manual or an automated system. Regardless of the system used, the Contractor shall maintain an audit trail acceptable to DND. Further, any automated or manual materiel accounting system shall first be approved by DND. Supply accounting records for DND materiel shall be maintained separate from other company records.

#### **General Conditions**

3. The equipment loaned to the Contractor shall be used only for the purpose of performing the defence work identified in this Contract or such other defence work as may be authorized in writing by PWGSC from time to time.
4. Commercial work shall not be carried out using the equipment.
5. The Contractor shall ensure that each item of equipment is clearly identified as the property of the Government of Canada. In addition, the Contractor shall ensure that each item of equipment is, at all times, either tagged or labeled with a clearly visible identification number corresponding to that shown on the issue document issued in respect thereof; and shall be responsible for making any changes in that number that may be notified from time to time by DND.
6. The Crown's representative(s) shall have the right to inspect the equipment at the location where it is stored or used at any time and the Contractor shall provide any reasonable assistance required for that purpose.
7. No rent shall be payable by the Contractor to the Crown in respect of equipment loaned for Canadian defence work.
8. The Department of National Defence will pay or reimburse the Contractor for reasonable and proper costs incurred by the Contractor in taking possession of the equipment and moving it to and from the Contractor's plant or other authorized location, including the cost of labour and materials in connection with the packaging and transportation of the equipment.

Initials:      RA: \_\_\_\_\_      Contractor: \_\_\_\_\_      DSAL: \_\_\_\_\_

### Stocktaking / Disposal

9. The Contractor shall initiate and complete a one hundred per cent (100%) manual stocktaking of all DND loaned materiel contained within the Contract Loan Account (CLA), and SPT/STE at least once every two years in accordance with Volume 3 Chapter 8 of A-LM-007-014/AG-001 and/or A-LM-184/JS-001.
10. An itemized listing of all the GFE and SPT/STE materiel shall be submitted to the Requisitioning Authority within thirty (30) calendar days of completion of the stocktaking.
11. In conjunction with the stocktaking schedule, the Contractor shall carry out a review of CLA and SPT/STE to determine if stock holdings include any item which:
- has become surplus to requirement as a result of removal of the end item from the Selection Notice and Priority Summary(SNAPS); or,
  - has become redundant because of a modification change notice, product improvement, etc.
12. The Contractor shall request the Requisitioning Authority's permission to dispose of and/or transfer materiel that meet the above criteria and shall prepare and handle the necessary documentation in accordance with the appropriate chapters of A-LM-007-014/AG-001 and/or A-LM-184/JS-001. On bulk transfer/disposal of DND owned materiel contained in the CLA, or SPT/STE accounts, handling fees, if applicable, are subject to a separate PWGSC negotiated rate.

### Loss or Damage

13. The Contractor shall report to the National Defence Quality Assurance Representative (NDQAR) all instances of loss or damage to DND owned materiel in his custody within two (2) working days of confirmation of its discovery. If the Contractor is authorized to make repairs to damaged DND-owned equipment by the Requisitioning Authority, he shall notify the NDQAR before any repair commences to enable adequate government quality assurance of the repair. Loss or damage of materiel in transit shall be actioned in accordance with Volume 3 Chapter 7 of A-LM-007-014/AG-001 and/or A-LM-184/JS-001.
14. In the event of loss or damage, the Contractor shall repair or replace, or have replaced, the equipment to the satisfaction of the Minister, or reimburse the Crown to the full value of the equipment as indicated in schedule A, B and C.
15. "Optional" at the discretion of the borrower, may insure the equipment against loss or damage by fire or supplemental perils or any other risks while the equipment is in his care, custody or control but no portion of the premium cost will be assumed by the Crown.

### Termination / Return of Equipment

16. DND may terminate the loan or any part thereof at any time, and recall the equipment concerned with that termination.

Initials: RA: \_\_\_\_\_ Contractor: \_\_\_\_\_ DSAL: \_\_\_\_\_

17. Unless DND otherwise advises the Contractor in writing, the Contractor shall return the equipment to the destination designated in the supply documentation upon the expiration of the loan agreement. In the event that the Contractor completes its defence work prior to the expiration of the loan agreement, the Contractor shall request return instructions from DND. When equipment is ready to be returned to DND, the Contractor shall prepare a condition report and advise the appropriate NDQAR to arrange for any necessary inspection and evaluation of the condition of the equipment.

#### **Condition / Maintenance of Equipment**

18. The Contractor agrees that the equipment loaned pursuant to this Agreement is furnished "as is" by the Crown. To that end, the Crown, its Ministers, officers, servants, agents, employees and members of the Canadian Forces shall not, by virtue of having loaned the equipment to the Contractor, have made or be deemed to have made any representations, warranties or guarantees as to the condition, quality or fitness for a particular purpose of the loaned equipment; nor does the Crown, its Ministers, officers, servants, agents, employees and members of the Canadian Forces assume any liability for the results achieved or the ability or inability of the contractor to use the loaned equipment arising from any cause.

19. The Contractor shall indemnify and save harmless the Crown, its Ministers, officers, servants, agents, employees and members of the Canadian Forces from and against all claims, demands, damages, loss, costs, expenses, actions, causes of action, suits or other proceedings by whomsoever made, arising out of any injury to persons (including injuries resulting in death) or loss of or damage to property of others that may be caused by or suffered as a result of the operation, use, or transportation of the equipment by the Contractor or any action taken or things done by virtue of this loan.

20. The maintenance of the equipment shall be in accordance with DND Standards, a copy of which the Contractor acknowledges to have in its possession.

21. The Contractor shall take reasonable and proper care of the equipment at his own expense, including the maintenance and calibration, thereof during the term of this loan and shall be responsible for any loss or damage resulting from its failure to do so other than loss or damage caused by fire or by ordinary wear and tear.

#### **Controlled Goods Registration**

22. If the Contractor is advised that the loaned equipment includes controlled goods, then pursuant to the Defence Production Act, access to these controlled goods is only permitted to persons or firms that are either registered, or exempt from registration, under the Controlled Goods Registration Program (CGRP). Therefore, the Contractor must demonstrate compliance to the CGRP before the equipment may be provided. If at any time, the Contractor loses its registration or its exempt status, the contractor must immediately inform the RA. The Contractor must make arrangements to cancel outstanding demands for equipment that includes controlled goods, and to return any and all of this type of equipment in his possession.

Initials: RA: \_\_\_\_\_ Contractor: \_\_\_\_\_ DSAL: \_\_\_\_\_

## SCHEDULE A

Date: dd/mm/yy

Loan No: nnXnYZ

The equipment listed in Schedule “A” includes Automated items, which are managed through the CFSS.

Quantity	Stock Number	Description of Equipment	DMC	Unit Value	Loan Dates

Initials: RA: \_\_\_\_\_ Contractor: \_\_\_\_\_ DSAL: \_\_\_\_\_

## SCHEDULE B

Date: dd/mm/yy

Loan No nnXnYZ

The equipment listed in Schedule “B” includes items that require US Department Approval and will only be added to the loan, upon receipt of authorization.

Quantity	Stock Number	Description of Equipment	DMC	Unit Value	Loan Dates

Initials: RA: \_\_\_\_\_ Contractor: \_\_\_\_\_ DSAL: \_\_\_\_\_



## SCHEDULE C

Date: dd/mm/yy

Loan No: nnXnYZ

The equipment listed in Schedule “C” includes Non-Automated items, machine tools, special tools, test equipment, tooling and ground handling equipment.

Quantity	Part Number	Description of Equipment	DMC	Unit Value	Loan Dates

Initials: RA:\_\_\_\_\_ Contractor:\_\_\_\_\_ DSAL:\_\_\_\_\_

## **Medium Support Vehicle System (MSVS)**

### **Standard Military Pattern (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 - Resulting Contract - ISS  
Annex C  
Price and Delivery

## **1 Purpose**

This Annex establishes the Deliverable End Items, quantities, firm unit prices, ceiling prices, destination, options, and firm labour rates for additional work.

## **2 Table of Contents**

### **Appendix 1 - Program Deliverables**

Appendix 1 - Table 1 - Program Management and Deliverables

### **Appendix 2 - Initial Procurement**

Appendix 2 - Table 1 - Initial Provisioning Spares

Appendix 2 - Table 2 - Special Tools and Test Equipment (STTE)

### **Appendix 3- Re-Procurement**

Appendix 3 - Table 1 - Proprietary Spares

Appendix 3 - Table 2 - Non-Proprietary Spares

### **Appendix 4 - Repair and Overhaul**

Appendix 4 - Table 1 - Free-Flow Repair and Overhaul

Appendix 4 - Table 2 - Repair Materiel Request (RMR)

Appendix 4 - Table 3 - Major Repair Program

Table 3a - Not Used

Table 3b - Approved Repairs

### **Appendix 5 - Not Used**

### **Appendix 6 - Labour, Overhead and Profit**

Appendix 6 - Table 1 - Labour, Overhead and Profit

Appendix 6 - Table 1a - Labour Category Descriptions

### **Appendix 7 - Authorized Task Authorization**

Appendix 7 - Table 1 - Task Authorizations

### **Appendix 8 - Foreign Exchange Rate Adjustment**

### **Appendix 9 - Price Negotiation Methodology for Option Years**

Item No.	Deliverable End Item	Reference	Firm Monthly Price (FMP)	Location	Remarks
1-1-001	Project Management Fee	IAW Core Work of Part 8, Annex B, Article 3: Service Requirements	\$ -	n/a	Canada will commence payment upon delivery and acceptance of the first vehicle under the Acquisition Contract. This Management Fee includes all costs required to properly and effectively manage and provide all the Core Work requirements under this Contract.

## Appendix 2 - Table 1 - Initial Provisioning Spares

The items in this table must represent all the initial provisioning items that the bidder recommends as part of the initial procurement of spares. Furthermore, the quantities recommended by the bidder in this table must be based on Scenario 3 quantities for 2 years worth of support. All ceiling prices for parts proposed by the bidder will form part of the Resulting Contract. This Table is to be completed IAW Part 7 Annex B para 5.5.6.2 (SOW-851) and 5.5.3 (SOW-840) and DID SMP-IL-006. The Maintenance Significant Items of Part 3, Section 3, Schedule 3-3 (LCC items) and the firm prices quoted there must form part of this table.

Item number	Identiture code	Item Name	MRN Part number	NATO stock number NSN	Qty. per assembly	CAGE code	Unit of Issue	Unit Price (ceiling)	Initial Provisioning			Total value	Delivery		Demil. code	Repairability Indicator	Shelf life	SMR code	Usage rate	Proprietary	Remarks
									Total Qty	Interim	Balance		Lead Time	Long Lead time							
2-1-001												\$ -									
2-1-002												\$ -									
2-1-003												\$ -									
2-1-004												\$ -									
2-1-005												\$ -									
2-1-006												\$ -									
2-1-007												\$ -									
2-1-008												\$ -									
2-1-009												\$ -									
2-1-010												\$ -									
2-1-011												\$ -									
2-1-012												\$ -									
2-1-013												\$ -									
2-1-014												\$ -									
2-1-015												\$ -									
2-1-016												\$ -									
2-1-017												\$ -									
2-1-018												\$ -									
2-1-019												\$ -									
2-1-020												\$ -									
2-1-021												\$ -									
2-1-022												\$ -									
2-1-023												\$ -									
2-1-024												\$ -									
2-1-025												\$ -									
2-1-026												\$ -									
2-1-027												\$ -									
2-1-028												\$ -									
2-1-029												\$ -									
2-1-030												\$ -									
2-1-031												\$ -									
2-1-032												\$ -									
2-1-033												\$ -									
2-1-034												\$ -									
2-1-035												\$ -									
2-1-036												\$ -									
2-1-037												\$ -									
2-1-038												\$ -									
2-1-039												\$ -									
....												\$ -									

This table is to be completed and submitted with the Bid though it is not evaluated.  
Adjustments may be made at IPCs.

Interim Spares \$ -  
Balance of spares \$ -  
TOTAL Spares \$ -

**Appendix 2 - Table 2 - Special Tools and Test Equipment (STTE)**

If Canada requires additional STTE not found on this STTE listing, the Contractor will supply such additional STTE at no extra cost to Canada.

Item number	Indentation code	Item Name	MRN Part number	NATO stock number NSN	Qty. per assembly	CAGE code	Unit of Issue	Unit Price	RSTTEL			Total value	Delivery		Demil. code	Repairability Indicator	Shelf life	SMR code	Usage rate	Remarks
									QTY	Interim	Balance		Lead Time	Long Lead time						
2-2-001											0	\$ -								
2-2-002											0	\$ -								
2-2-003											0	\$ -								
2-2-004											0	\$ -								
2-2-005											0	\$ -								
2-2-006											0	\$ -								
2-2-007											0	\$ -								
2-2-008											0	\$ -								
2-2-009											0	\$ -								
2-2-010											0	\$ -								
2-2-011											0	\$ -								
2-2-012											0	\$ -								
2-2-013											0	\$ -								
2-2-014											0	\$ -								
2-2-015											0	\$ -								
2-2-016											0	\$ -								
2-2-017											0	\$ -								
2-2-018											0	\$ -								
2-2-019											0	\$ -								
2-2-020											0	\$ -								
2-2-021											0	\$ -								
2-2-022											0	\$ -								
2-2-023											0	\$ -								
2-2-024											0	\$ -								
2-2-025											0	\$ -								
2-2-026											0	\$ -								
2-2-027											0	\$ -								
2-2-028											0	\$ -								
2-2-029											0	\$ -								
2-2-030											0	\$ -								
2-2-031											0	\$ -								
2-2-032											0	\$ -								
2-2-033											0	\$ -								
2-2-034											0	\$ -								
2-2-035											0	\$ -								
2-2-036											0	\$ -								
2-2-037											0	\$ -								
2-2-038											0	\$ -								
2-2-039											0	\$ -								
....											0	\$ -								

This Table will be completed by Canada prior to Contract Award using the information provided in the bid (Part 4, Att 3, Table 3)

The information required here but not provided in Part 4, Att 3, Table 3 will be required with the Provisioning Documentation, IAW DID SMP-IL-006 in Part 7.

Interim Spares	\$ -
Balance of spares	\$ -
<b>TOTAL Spares</b>	<b>\$ -</b>

**Appendix 3 - Table 1 - Proprietary Spares**

Item number	Indention code	Item Name	MRN Part number	NATO stock number NSN	CAGE code	Unit of Issue	Unit Price	Delivery	Demil. code	Repairability Indicator	Shelf life	Remarks
								Lead Time				
3-1-001												
3-1-002												
3-1-003												
3-1-004												
3-1-005		<b>To be completed after Contract Award following Final Initial Provisioning Conference</b>										
3-1-006												
3-1-007												
3-1-008												
3-1-009												
3-1-010												
3-1-011												
3-1-012												
3-1-013												
3-1-014												
3-1-015												
3-1-016												
3-1-017												
3-1-018												
3-1-019												
3-1-020												
3-1-021												
3-1-022												
3-1-023												
3-1-024												
3-1-025												
3-1-026												
3-1-027												
3-1-028												
3-1-029												
3-1-030												
3-1-031												
3-1-032												
3-1-033												
3-1-034												
3-1-035												
3-1-036												
3-1-037												
3-1-038												
3-1-039												
....												

**Appendix 3 - Table 2 - Non-Proprietary Spares**

Item number	Indention code	Item Name	MRN Part number	NATO stock number NSN	CAGE code	Unit of Issue	Delivery	demil code	Repairability Indicator	Shelf life	Remarks
							Lead Time				
3-2-001											
3-2-002											
3-2-003											
3-2-004											
3-2-005											
3-2-006											
3-2-007											
3-2-008											
3-2-009											
3-2-010											
3-2-011											
3-2-012											
3-2-013											
3-2-014											
3-2-015											
3-2-016											
3-2-017											
3-2-018											
3-2-019											
3-2-020											
3-2-021											
3-2-022											
3-2-023											
3-2-024											
3-2-025											
3-2-026											
Variant xyz											
3-2-027											
3-2-028											
3-2-029											
3-2-030											
3-2-031											
3-2-032											
3-2-033											
Other Variant											
3-2-034											
3-2-035											
3-2-036											
3-2-037											
3-2-038											
3-2-039											
....											



Appendix 4 - Table 1 - Free-Flow Repair and Overhaul

Item Number	Item	Unit of Issue	Firm Unit Price (up to 60 MACA)	Destination (Consignee)	Disposal IAW Annex B, Appendix BF, Article 4.12	Delivery Schedule ARO Turn Around Time
4-1-001	Engine	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-002	Transmission	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-003	Transfer Case Assembly	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-004	Coolant Pump	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-005	Starter	This Table will be filled by Canada prior to Contract Award using the information provided in the bid (Part 4, Att 3, Table 1) and will be completed after Contract Award following the Final Initial Provisioning Conference.				
4-1-006	Alternator					
4-1-007	Air Compressor					
4-1-008	Turbocharger					
4-1-009	Fuel Injection Pump	EA	\$ -	25 CFSD EFCC LFWA EFCC	\$ -	
4-1-010	Electronic Control Module	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-011	Steering Gear Box	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-012	Hydraulic Cylinders	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-013	Hydraulic Motors	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-014	Hydraulic Pump	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-015	Hydraulic Valves	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-016	Axles and Differential, front assembly	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-017	Axles and Differential, intermediate assembly	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-018	Axles and Differential, rear assembly	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-019	Winch	EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-020		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-021		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-022		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-023		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-024		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-025		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-026		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-027		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-028		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-029		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-030		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-031		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	
4-1-032		EA	\$ -	LFWA EFCC 25 CFSD EFCC	\$ -	

**Appendix 4 - Table 2 - Repair Materiel Request (RMR)**

This Table is for establishing the Baseline Turn Around Time for each Items listed below. The R&O will be authorized IAW Part 8, Article 1.6, Additional Work Requirements, and Annex D - Task Authorization Procedures, of the Contract.

Item Number	Item	Unit of Issue	Destination (Consignee)	Delivery Schedule ARO (TAT)
4-2-001		EA	LFWA EFCC 25 CFSD EFCC	
4-2-002		EA	LFWA EFCC 25 CFSD EFCC	
4-2-003		EA	LFWA EFCC 25 CFSD EFCC	
4-2-004		EA	LFWA EFCC	
<b>To be completed after Contract Award following the Final Initial Provisioning Conference</b>				
4-2-008		EA	25 CFSD EFCC	
4-2-009		EA	LFWA EFCC 25 CFSD EFCC	
4-2-010		EA	LFWA EFCC 25 CFSD EFCC	
4-2-011		EA	LFWA EFCC 25 CFSD EFCC	
4-2-012		EA	LFWA EFCC 25 CFSD EFCC	
4-2-013		EA	LFWA EFCC 25 CFSD EFCC	
4-2-014		EA	LFWA EFCC 25 CFSD EFCC	
4-2-015		EA	LFWA EFCC 25 CFSD EFCC	
4-2-016		EA	LFWA EFCC 25 CFSD EFCC	
4-2-017		EA	LFWA EFCC 25 CFSD EFCC	
4-2-018		EA	LFWA EFCC 25 CFSD EFCC	
4-2-019		EA	LFWA EFCC 25 CFSD EFCC	
4-2-020		EA	LFWA EFCC 25 CFSD EFCC	
4-2-021		EA	LFWA EFCC 25 CFSD EFCC	
4-2-022		EA	LFWA EFCC 25 CFSD EFCC	
4-2-023		EA	LFWA EFCC 25 CFSD EFCC	
4-2-024		EA	LFWA EFCC 25 CFSD EFCC	
4-2-025		EA	LFWA EFCC 25 CFSD EFCC	
4-2-026		EA	LFWA EFCC 25 CFSD EFCC	
4-2-027		EA	LFWA EFCC 25 CFSD EFCC	
4-2-028		EA	LFWA EFCC 25 CFSD EFCC	
4-2-029		EA	LFWA EFCC 25 CFSD EFCC	
4-2-....		EA	LFWA EFCC 25 CFSD EFCC	

Medium Support Vehicle System  
Standard Military Pattern  
ISS  
Price and Delivery  
Repair and Overhaul  
Major Repair Program

Table 3 to  
Appendix 4 to  
Annex C to  
Part 8 to  
Request for Proposal W8476-06-MSMP/L

**Appendix 4 - Table 3 - Major Repair Program**

---

Table 3b - Approved Repairs

This Table will be amended, as and when required, to incorporate authorized MRP requirements. All MRP work will be authorized IAW Article 1.6, Additional Work Requirements, and Annex D - Task Authorization Procedures, of the Contract.

TA#	Vehicle #	Description	Unit Price (C or F)	Delivery Schedule	Remarks

**Appendix 6 - Table 1 - Labour, Overhead and Profit**

The following rates and guidelines will be used in the determination of the price for changes to the scope or additional work subject to approval.

**1. Firm Hourly Rates**

The following firm hourly labour rates for additional work, excluding overhead and profit, will be used to calculate the labour costs for any Task Authorization. The minimum qualifications of personnel will be IAW Appendix 6, Table 1a to this Annex.

Labour Category	Contract Award to 12 MACA	13 MACA to 24 MACA	25 MACA to 36 MACA	37 MACA to 48 MACA	49 MACA to 60 MACA
Engineer					
Technician	<b>This Table will be completed by Canada prior to Contract Award using the information provided in the bid (Attachment 3 to Part 4).</b>				
Technologist					
ISS / ILS Specialist					

**NOTE:** Other labour category rates will not be accepted.

**1.1 Overtime**

**Appendix 6 - Table 1 - Labour, Overhead and Profit**

The Contractor must not perform any overtime under the Contract unless authorized in advance and in writing by the Contracting Authority. Any request for payment must be accompanied by a copy of the overtime authorization and a report containing the details of the overtime performed pursuant to the written authorization. Payment for authorized overtime will be calculated as follows:

- a) The Contractor will be paid the Hourly Rates plus authorized overtime hours paid at premium Rate of 1.5 time of the appropriate Labour Category under Table 1 - Labour, Overhead and Profit.
- b) The premium will be calculated by taking the Hourly Rates time 1.5, plus Overhead Rate, plus Profit Rate. These rates will remain firm for the duration of the Contract, including all amendments and are subject to audit if considered necessary by Canada.

**2. Overhead**

The following Firm Overhead rate will be applied to direct and indirect costs, excluding profit for the listed above labour categories:

	<b>Contract Award to 60 MACA</b>
Overhead Rate	

**3. Profit**

The following firm profit rate will be applied to labour, Overhead and direct costs:

	<b>Contract Award to 60 MACA</b>
Profit Rate	

Medium Support Vehicle System  
Standard Military Pattern  
ISS  
Price and Delivery  
Labour Category Descriptions

Table 6a to  
Appendix 6 to  
Annex C to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

## **Appendix 6 - Table 1a - Labour Category Descriptions**

---

### **1 Engineering Services Category**

As and when required, the Contractor must provide engineering personnel to provide work on this project who are well qualified and experienced.

### **1.1 Required Services**

The required services encompass all electronic, electrical, optical, mechanical, structural and materiel systems which may include but not necessarily limited to the following:

- a. Automotive systems design and engineering; system planning and architecture development design, automotive system integration;
- b. Design and engineering of automotive components and systems; hydraulic systems, electrical systems;
- c. Conducting engineering and technical studies, functional analysis, option analysis, statistical analysis, feasibility studies, cost estimates, cost benefit analysis; analysis of system deficiencies, engineering trade-off and technical risk analysis, recommendation of cost effective solutions, development of mitigation strategies and implementing automotive engineering solutions as needed.
- d. Preparation, review and evaluation of engineering documentation, including the automotive equipment specifications, drawings, System Engineering Management Plan (SEMP), engineering and technical plans and studies, functional specifications and statements of work;
- e. Developing standards and codes for efficient vehicle production, tailoring of military or commercial standards, specifications or practices for incorporation into the MSVS;
- f. Determining, developing and introducing new techniques and implementing procedures and systems to reduce automotive production and service costs;
- g. Ensuring governmental regulations are followed during all steps of production and service;
- h. Human Factors Engineering (HFE), emissions, noise, vibration, research or control;
- i. Vehicle dynamics, operations, payload control, safety engineering and security;
- j. Automotive test engineering, modelling and simulation, prototype design and building, preparing test plans and procedures;
- k. Preparing configuration management plans; implementing configuration management and quality control techniques and procedures;
- l. Technical evaluation of proposals;

## **2 Technological Services Category**

As and when required, the Contractor must provide technological personnel to work on this project who are well qualified and experienced.

### **2.1 Required Services**

Medium Support Vehicle System  
Standard Military Pattern  
ISS  
Price and Delivery  
Labour Category Descriptions

Table 6a to  
Appendix 6 to  
Annex C to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

The required services may include, but are not necessarily limited to the following:

- a. CAD/CAM design;
- b. Automotive equipment design processes and systems;
- c. preparing specifications, technical drawings and instructions;
- d. specifying tests;
- e. developing prototypes;
- f. resolving production or construction problems;
- g. managing projects; and
- h. supervising, training and planning.



## **2.2 Academic Qualifications**

All Contractor technological resources must have a detailed understanding of automotive field and an educational background sufficient to fully carry out the technical and managerial aspects of the work. This background is normally achieved by:

- a. Graduating from a three year post-secondary technologist program in Ontario or other provincial equivalents, consisting of core mathematics, engineering and science fundamentals including courses in computer programming, technical writing, design, analysis and management principles and complemented by hands-on experience gained in labs and project placements; and
- b. Supplemented by maintaining membership(s) in recognized and reputable national, provincial, state or international professional organizations and relevant certifications, e.g. C.E.T. from OACETT or other equivalent.

## **3 Technician Services Category**

As and when required, the Contractor must provide technical personnel to provide work on this project who are well qualified and experienced.

### **3.1 Required Services**

The required services may include, but are not necessarily limited to the following:

- a. assisting in designing equipment, processes and systems;
- b. compiling data and reports;
- c. inspecting projects, conducting test set up, testing and surveying, and preparing estimates;
- d. troubleshooting, servicing, calibrating and supervising equipment repairs;
- e. providing support for quality assurance, production control and maintenance;
- f. conducting repairs and modifications, resolving problems;
- g. providing support and conducting experiments in laboratories, prototyping; and
- h. supervising and training other personnel.

### **3.2 Academic Qualifications**

All Contractor Technician resources must have a detailed understanding of automotive field and an educational background sufficient to fully carry out the technical and managerial aspects of the work. This background is normally achieved by:

- a. Graduating from a two year technician post-secondary program in Ontario or other provincial equivalents consisting of core mathematics, engineering and science fundamentals including courses in computer applications and technical writing and complemented by hands-on experience gained in labs and projects; and
- b. Supplemented by maintaining membership(s) in recognized and reputable national, provincial, state or international professional organizations and relevant certifications, e.g. C.Tech. from OACETT or other equivalent.

## **4 Life Cycle Material Management (LCMM) Category**

As and when required, the Contractor must provide ISS / ILS Specialists to provide work on this project who are well qualified and experienced.

Medium Support Vehicle System  
Standard Military Pattern  
ISS  
Price and Delivery  
Labour Category Descriptions

Table 6a to  
Appendix 6 to  
Annex C to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

#### **4.1 Required Services**

The required services may include, but are not necessarily limited to the following:

- a. ILS Management, ISS Planning, Scheduling and Implementation of land vehicle systems deployed in harsh environmental conditions;
- b. Application of various industry standard or military standards for ILS and ISS Management of land vehicle systems, e.g.:
  - GEIA-STD-0007
  - DEF-STD-600
  - MIL-STD-1388-2B
  - A-LM-184-001/JS-001
  - MIL-PRF-49506
  - MIL-STD-470
  - MIL-STD-471;
- c. ILS and ISS design interfaces;
- d. Technical Publication and product documentation; and
- e. Managing Electronic Information Environment (EIE) for Vehicle Supportability.

#### **4.2 Academic Qualifications**

All Contractor LCMM resources employed on this project shall have a mix of qualification and experience to fully carry out the technical and managerial aspects of the work. The educational background is normally achieved by:

- a. An undergraduate degree in Engineering, Systems Engineering or Science, Supply Chain Management, Master in Business Administration or equivalent; and
- b. Supplemented by maintaining membership(s) in recognized and reputable national, provincial, state or international professional organizations and relevant certifications, e.g., CPL from SOLE.

Medium Support Vehicle System  
Standard Military Pattern  
ISS  
Price and Delivery  
Task Authorization

Table 1 to  
Appendix 7 to  
Annex C to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

**Appendix 7 - Table 1 - Task Authorizations**

This Table will be amended, as and when required, to incorporate approved Task Authorizations. All Task Authorizations will be approved IAW Article 1.6, Additional Work Requirements, and Annex D - Task Authorization Procedures, of the Contract.

TA#	Variant	Description	BoP F/C	Value	Delivery	Remarks	Completed y/n

<b>Table 8 Total</b>	<b>0.00</b>
----------------------	-------------

TA : Task Authorization  
BoP : Basis of Payment  
F/C: Fixed/Ceiling price



## **Appendix 9 - Price Negotiation Methodology for Option Years**

### **1. GENERAL**

- 1.1 The Prices, Rates and Mark-ups for the options period(s), if exercised by Canada, will be negotiated every Option Period to establish the Prices, Rates and Mark-up for the next five-year period in accordance with the Articles as detailed in this Appendix.
- 1.2 The first negotiation will take place during Year 5 of In-Service Support Contract. The second and third round of negotiations will take place no later than during Year 10 and Year 15 of in-service support respectively, if exercised by Canada. Further negotiations, if required, will be conducted in the same manner.
- 1.3 The Contractor agrees that the negotiated Prices, Rates and Mark-up must be fair and justifiable. The Contractor agrees that the price negotiation methodology and conditions expressed herein will apply for the duration of the Contract.

### **2. PRICING NEGOTIATION METHODOLOGY**

- 2.1 The Contractor must submit a proposal to the Contract Authority no later than twelve (12) months prior to the end of the Period of Contract, containing the following:
  - a. a description of the Work expected to be required over the Option Period supported by a detailed workload analysis;
  - b. for each year Option Period, the proposed Prices, Rates and Mark-up as specified in the Basis-of-Payment;
  - c. detailed breakdowns, including all appropriate and applicable Cost elements plus profit, for the proposed firm rates and prices;
  - d. the Contractor's actual costing data related to the firm rates, for each of the last five (5) years prior to submission of the proposal (except for the first negotiation: only the last three (3) years will be required);
  - e. the Contractor's projected actual costing data related to the firm rates for the remaining period of the Contract;
  - f. the Contractor's three (3) most recent audited unconsolidated financial statements as of the date of submission of the proposal; and
  - g. any of the Contractor's general company costing data or other information required by the Contracting Authority to establish revised rates and prices in accordance with the paragraph below.
- 2.2 Taking into consideration the Contractor's proposal, the Contracting Authority will determine the revised rates and prices based on the procedures outlined below:
  - a. For Canadian Based Contractor, the Contractor must propose prices or rates based on the estimated costs computed in accordance with the Contract Cost Principles 1031-2, detailed in the Public Works and Government Services Canada's (PWGSC) Standard Acquisition Clauses and Conditions (SACC) Manual (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>);
  - b. For Foreign Based Contractor, the Contractor must propose as per one of these options:
    - i. if the Government of the Contractor has negotiated price or rates in place with the Contractor and or the Principle Sub-Contractor, the then current annually negotiated rates must be used; or
    - ii. the Contractor must propose prices or rates based on the estimated costs computed in accordance with their Government equivalent of Contract Cost Principles 1031-2; or

- iii. the Contractor must propose prices or rates based on the estimated costs computed in accordance with the Contract Cost Principles 1031-2, detailed in the Public Works and Government Services Canada's (PWGSC) Standard Acquisition Clauses and Conditions (SACC) Manual (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>).

Whichever is more beneficial to Canada.

- c. The Contractor must propose a profit rate computed in accordance with Chapter 10, Cost and Profit, of the Supply Manual (<http://www.tpsgc-pwgsc.gc.ca/app-acq/ga-sm/index-eng.html>), Public Works and Government Services Canada.

- 2.3 The Contractor will also be required to provide the rate certification, the price certification and the price justifications described below.

### **3. INTERIM PRICES**

- 3.1 Where negotiated Prices, Rates and Mark-up are not yet negotiated between the Contractor and Canada by the time the next Option Period commences then the Prices, Rates and Mark-ups of Year 6 or any last Year of the negotiated Option Period must be used as interim Prices, Rates and Mark-ups until these Prices, Rates and Mark-ups are negotiated between the Contractor and Canada.

### **4. ADDITIONAL REQUIREMENTS**

- 4.1 Under no circumstances will the escalation rate exceed 3% between two consecutive fiscal years. In the case where an agreement exists between the Contractor and its own Government (Government negotiated rates), these rates may be used by Canada should it be in the best interest of Canada to do so.

### **5. PRICE SUPPORT**

- 5.1 The Contractor will be required to provide one or more of the following price support below.

### **6. PRICE AND RATES CERTIFICATION**

- 6.1 The Bidder certifies that the price and rates proposed are based on costs computed in accordance with Contract Cost Principles 1031-2, and includes an estimated profit amount of \$\_\_\_\_\_.

### **7. PRICE CERTIFICATION**

- 7.1 The Bidder certifies that the price proposed is not in excess of the lowest price charged anyone else, including the Bidder's most favoured customer, for the like quality and quantity of the goods, services or both.

### **8. PRICE CERTIFICATION - COMMERCIAL GOODS AND/OR SERVICES**

- 8.1 The Contractor certifies that the price proposed:
  - a. is not in excess of the lowest price charged anyone else, including the Contractor's most favoured customer, for the like quality and quantity of the goods, services or both; and
  - b. does not include an element of profit on the sale in excess of that normally obtained by the Contractor on the sale of goods, services or both of like quality and quantity.



**9. RATE CERTIFICATION - COMMERCIAL SERVICES**

- 9.1 The Contractor certifies that the rate proposed:
- a. is not in excess of the lowest rate charged anyone else, including the Contractor's most favoured customer, for the like quality and quantity of the service;
  - b. does not include an element of profit on the sale in excess of that normally obtained by the Contractor on the sale of services of like quality and quantity; and
  - c. does not include any provision for discounts to selling agents.

**10. PRICE JUSTIFICATION**

- 10.1 The Contractor must provide, on Canada's request, one or more of the following price justification:
- a. current published price list indicating the percentage discount available to Canada; or
  - b. a copy of paid invoices for the like quality and quantity of the goods, services or both sold to other customers; or
  - c. a price breakdown showing the cost of direct labour, direct materials, purchased items, engineering and plant overheads, general and administrative overhead, transportation, etc., and profit; or
  - d. any other supporting documentation as requested by Canada.

**11. DISCRETIONARY AUDIT**

- 11.1 The Contractor's certification that the price or rate is not in excess of the lowest price or rate charged anyone else, including the Contractor's most favoured customer, for the like quality and quantity of the goods, services or both, is subject to verification by government audit, at the discretion of Canada, before or after payment is made to the Contractor.
- 11.2 If the audit demonstrates that the certification is in error after payment is made to the Contractor, the Contractor must, at the discretion of Canada, make repayment to Canada in the amount found to be in excess of the lowest price or rate or authorize the retention by Canada of that amount by way of deduction from any sum of money that may be due or payable to the Contractor pursuant to the Contract.
- 11.3 If the audit demonstrates that the certification is in error before payment is made, the Contractor agrees that any pending invoice will be adjusted by Canada in accordance with the results of the audit. It is further agreed that if the Contract is still in effect at the time of the verification, the price or rate will be lowered in accordance with the results of the audit.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex D

**TASK AUTHORIZATION PROCEDURES**

This Annex outlines the procedures to be followed as well as the principles that will be used to govern the issuance of Task Authorizations under this Contract.

**1 Scope:**

- 1.1 Task Authorizations will be used to authorize the Contractor to carry out work that is not a permanent change to the Contract and is within the scope of the Contract, including but not limited to Work identified within the Statement of Work as requiring the use of a Task Authorization. Task Authorizations may or may not include additional costs. All Task Authorizations must be preauthorized and a Task Authorization Form (DND 626) is to be used (example in Annex H).
- 1.2 The use of Task Authorizations includes, but is not limited to, the following requirements outlined in the Statement of Work:
  - a) R&O of Vehicles, LHS Trailers, and APS under the Major Repair Program (MRP);
  - b) R&O of Repair Material Request (RMR) including salvage, strip, store, disposal;
  - c) Technical/Special Investigations;
  - d) Engineering/Technical Studies;
  - e) Technical Problem Management Support Services.
- 1.3 A Contract Amendment, duly negotiated and signed by the Contractor and Canada, will be used when proposed changes in the Work are IAW Part 8, Article 1.7; or where such Work would constitute a permanent change to the content of the SOW.

**2 Administration:**

- 2.1 Details of each task assigned will be described in an individual Task Statement of Work (SOW).
- 2.2 All the terms and conditions of the Contract apply to this Task Authorization method and cannot be amended without written authorization by the Contracting Authority.
- 2.3 Work defined in the Task SOW must be within the general Scope of Work stated in the Contract. The Contractor must control all Work by the serial numbers assigned to all Task SOWs.
- 2.4 The Requisitioning Authority will carry out the administration of the Task Authorizations. This process includes monitoring, controlling and reporting on expenditures of the contract with task authorizations to the Contracting Authority.
- 2.5 All authorized Task Authorizations must be entered into and managed through the Contractor's EIE System as described in SOW article 3.6.1 The Contractors EIE system will allow both the Contractor and the Technical Authority to track the progress and eventual completion of the Work described in the Task Authorization. Details on the reporting requirements are outlined in Article 8 below.
- 2.6 Only the Requisition and/or Contracting Authority can authorize Task Authorizations, IAW their delegated Approval Limitations as found in Article 4, below.
- 2.7 Canada will not pay the Contractor for any Task Authorization unless they have been pre-approved, in writing, by the Requisitioning Authority and/or Contracting Authority (as applicable).

### **3 Procedures:**

3.1 The following steps will be used for any Task Authorization:

3.1.1 Where Canada request the change:

3.1.1.1 The Technical Authority will provide the Requisition Authority with written technical instructions detailed in a Task SOW, signed by the Technical Authority and approved by the Requisition Authority, in sufficient detail to allow the Contractor to provide the following information:

- a) any impact of the Task Authorization on the requirement of the Contract;
- b) a price breakdown of the cost (increase or decrease) associated with the implementation of the Task Authorization IAW Article 1.9 – Pricing of Changes;
- c) a schedule to implement the Task Authorization and the impact on the Contract delivery schedule; and
- d) Any changes (positive or negative) on the Health and Safety impact of the Vehicles.

3.1.1.2 The Requisition Authority will then forward this information to the Contractor.

3.1.1.3 The Contractor must ensure that the requested work in the SOW of the Task (through DND 626) does not exceed the Scope of Work of the Contract (Annex B - SOW). Should the Contractor have any doubt with respect to the Work requested in the SOW of the Task, the Contractor must submit a change recommendation to the SOW of the Task to the Requisition Authority.

3.1.1.4 The Contractor will prepare a Task Proposal and will send it to the Requisition Authority for evaluation. If the Task Proposal involves the negotiation of terms and conditions and/or pricing, the review and approval of the Contracting Authority is required.

3.1.1.5 Once agreement has been reached and the Contractor's Task Proposal has been accepted, the Requisition Authority will prepare a DND 626 form (with the Contractor approved Task SOW attached), to be signed by the Requisition Authority and/or Contracting Authority, as required, in the appropriate signature blocks, and forward a signed copy to both the Contractor and the Contracting Authority. This constitutes the written authorization for the Contractor to proceed with the Task Authorization.

3.2 When the Contractor requests a Task Authorization:

3.2.1 The Contractor must provide the Contracting Authority with a request for a Task Authorization in sufficient details for review by Canada.

3.2.1.1 The Contracting Authority will forward the request to the Technical Authority for review.

3.2.1.2 If Canada agrees that a Task Authorization is required, then the procedures detailed in Sub-Article 3 are to be followed.

3.2.1.3 The Contracting Authority will inform the Contractor in writing if Canada determines that the Task Authorization is not required within 15 days.

### **4 Approval Limitations**

4.1 The Approval Limitations for each Task Authorization are as follows:

- a) The Requisition Authority may authorize only Repair Material Request (RMR) Tasks up to a limit of \$25K, Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions.

- b) Any other Tasks or RMR requests in excess of \$25K must be authorized by the Contracting Authority before issuance.

4.2 The Contractor must not proceed with any Task Authorization without the written authorization of the Requisition Authority and/or Contracting Authority, as applicable. Any work performed without the necessary written authorization will be considered outside the scope of the Contract and no payment will be made for such work.

## **5 Basis and Method of Payment:**

5.1 The most appropriate Basis and Method of Payment will be determined at the time the Task Authorization is issued.

5.2 Basis of Payment

5.2.1 Depending on the nature of the Work, the following Basis of Payment, as approved by Canada, will apply to a Task Authorization:

- a) **Firm Price** - Where the Work described is clearly defined, the Contractor's Task Proposal will contain a firm price for labour and any related costs. Where the final price for the Work is a firm price, the requirements of the Work shall be completed IAW the terms and conditions of the Contract and no additional funds will be made available.
- b) **Ceiling Price** - Where the Work described is clearly defined but may contain some variable elements, the Contractor's Task Proposal will contain a ceiling price for labour plus an estimated amount for any other related costs. The ceiling price indicated will be subject to downward adjustment only so as not to exceed the actual charges and costs reasonably and properly incurred in the performance of the Work and computed IAW Article 1.9, Pricing of Changes, of the Contract (GST/HST extra). The requirements of the Work shall be completed IAW the terms and conditions of the Contract, subject to the final ceiling price, and no additional funds will be made available.
- c) **Limitation of Expenditure** - Where the Work described is not clearly defined, the Contractor's Task Proposal will contain an estimated cost for labour, plus an estimated amount for any other related costs computed IAW Article 9, Pricing of Changes, of the Contract, as a limitation of expenditure Basis of Payment.

If, during the execution of the task, it becomes apparent that the Work is greater than anticipated, the Contractor must provide the Technical Authority and the Contracting Authority with the justification for any anticipated cost overruns. Any increase in the limitation of expenditure for labour or expenses must be authorized by an amendment to the Task Authorization, in accordance with the Task Authorization process stated above.

5.2.2 All proposed prices and cost estimates must be supported by a detailed cost breakdown.

5.2.3 All amounts charged on a "Ceiling Price" or "Limitation of Expenditure" Basis of Payment will be subject to Government audit before or after payment of an invoice.

## **6 Method of Payment:**

6.1.1 Depending on the nature of the Work, the following Methods of Payment, as approved by Canada, will apply to a Task Authorization:

6.1.2 For a "Firm Price" Basis of Payment, the following Methods of Payment shall apply:

- a) Lump sum payment shall be made following acceptance of all deliverables under the Task Authorization; and
- b) Milestone payments shall be made, on an exceptional basis for large Task Authorizations subject to approval by the Requisitioning Authority; the Contractor shall ensure that the payments requested are tied to the deliverables proposed, and the proposed milestone payment amount is commensurate with the level of effort and all costs to be incurred.

6.1.3 For a "Ceiling Price" or "Limitation of Expenditure Price" Basis of Payment, the following Methods of Payment shall apply:

- a) Lump sum payments shall be made following acceptance of all deliverables of the Task Authorization; and
- b) Payments for costs incurred at completion of a specified milestone, shall be made, on an exceptional basis for large Task Authorizations subject to approval by the Requisitioning Authority. No advance payments shall be considered.

## **7 Not Used**

## **8 Periodic Usage Reports:**

8.1 The Contractor must compile and maintain records on its provision of services under authorized Task Authorizations issued under the Contract.

8.2 The Contractor must provide this data IAW the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "NIL" report.

8.3 The data must be submitted on a quarterly basis to Canada.

8.3.1 The quarterly periods are defined as follows:

- a) 1st quarter: April 1 to June 30;
- b) 2nd quarter: July 1 to September 30;
- c) 3rd quarter: October 1 to December 31; and
- d) 4th quarter: January 1 to March 31.

8.3.2 The data must be updated no less than quarterly no later than 10 calendar days after the end of the reporting period. Periodically Canada may request updates more frequently. In such cases, updates must be no later than 10 days from date of request.

### **8.4 Reporting Requirement - Details**

8.4.1 A detailed and current record of all authorized tasks must be kept.

8.4.1.1 For each authorized Task:

- a) the authorized task number or task revision number(s);
- b) a title or a brief description of each authorized task;
- c) the total estimated cost specified in the authorized Task Authorization of each task, GST or HST extra;
- d) the total amount, GST or HST extra, expended to date against each authorized task;

- e) the start and completion date for each authorized task; and
- f) the active status of each authorized task, as applicable.

8.4.1.2 For all authorized Tasks:

- a) the amount (GST or HST extra) specified in the Contract (as last amended, as applicable) as Canada's total liability to the Contractor for all authorized Task Authorizations; and
- b) the total amount, GST or HST extra, expended to date against all authorized Task Authorizations.

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS

Annex E – Spare Parts Ordering Procedures



This Annex outlines the procedures to be followed as well as the principles that will be used to govern the issuance of Spare Parts Orders under this Contract.

## **1. Scope:**

- 1.1 Spare Parts Orders will be used to authorize the Contractor to provide to Canada on an “as and when requested” basis, the Re-Procurement Spares identified in Annex C, Appendix 3, Tables 1 and 2. All Spare Parts Orders must be preauthorized and a Pre-Facilitated Contract (PFC) Form is to be used (example in Annex H).
- 1.2 The use of Spare Parts Orders is limited to the Spare Parts outlined in Annex C – Price and Delivery, Appendix 3, Tables 1 and 2.

## **2. Administration:**

- 2.1 Only the Requisition and/or Contracting Authority can authorize Spare Parts Orders IAW their delegated Approval Limitations as found in Article 5, below.
- 2.2 All the Terms and Conditions of the Contract apply to this Spare Parts Orders method and cannot be amended without written authorization by the Contracting Authority.
- 2.3 The administration of the Spare Parts Orders will be carried out by the Requisitioning Authority. This process includes monitoring, controlling and reporting on expenditures of the contract with Spare Parts Orders to the Contracting Authority.

## **3. Procedures:**

### **3.1 For the Re-Procurement of Proprietary Spare Parts**

- a. The Requisition Authority will complete the PFC and will identify the order by the mention “**Spares Order**” on the DND PFC form, and fax or email the PFC to the Contractor. In completing the PFC, the Requisition Authority will include the name, description, quantity, part #, NATO stock code, and firm unit price(s) of the required Spare Part(s), as well as the delivery address, and required delivery date.
- b. The Contractor will acknowledge, via fax or e-mail, the receipt of the PFC within 1 business day.

### **3.2 For the Re-Procurement of Non-Proprietary Spare Parts**

- a. The Requisition Authority will complete the PFC and will identify the request by the mention of “**Request for Quote**” on the DND PFC form, and fax or email the PFC to the Contractor. In completing the PFC, the Requisition Authority will include the name, description, quantity, part #, and NATO stock code, as well as the delivery address, and required delivery date.
- b. The Contractor will acknowledge, via fax or e-mail, the receipt of the PFC within 1 business day.
- c. The Contractor will complete the requirement via the Tendering Procedures as outlined in Article 4.4, below, and enter into subcontracts with qualified Subcontractors who submit the lowest-priced compliant tenders as per Article 4.4(b).

- d. The Contractor will complete the required pricing information for each spare identified in the PFC, certify (see below) that the price represents best value for Canada, and fax or email the PFC back to the Requisition Authority within 10 business days.
- e. The Contractor must include in their quote the following statement “(Contractor name) hereby certifies that the prices provided herein meet the requirement for competitive pricing as defined in Annex E of the SMP ISS Contract (Contract number to be inserted at Contract Award)”, date and sign the statement.
- f. Canada will advise the Contractor within 10 business days of the complete or partial acceptance, or refusal of the request by sending the Contractor the PFC with the mention “Order”, “Partial Order” or “Cancel”. The Mentions “Order” and “Partial Order” are the Contractor’s authority to procure and supply the items on the PFC.

#### **4 Tendering Procedures for the Re-Procurement of Non-Proprietary Spare Parts**

- 4.1 While the Contract provides for delivery of Proprietary Spare Parts, it is understood that the Contractor will also deliver Non-Proprietary Spare Parts on an “as and when requested” basis called for in the SOW through a third party.
- 4.2 As an independent entity, the Contractor will select its own Subcontractors. It is most important that the selection process for procuring Non-Proprietary Spare Parts is fair, open and transparent and that all qualified Subcontractors have the opportunity to be considered for supply. Canada believes that competitive bidding and open tendering processes will yield the best value at lowest cost for subcontracted goods and services.
- 4.3 In subcontracting for the supply of Non-Proprietary Spare Parts the Contractor must:
  - a. prepare tender and contract documents that clearly set out the requirements for such materiel;
  - b. enter into subcontracts with qualified Subcontractors who submit the lowest-priced compliant tenders;
  - c. manage such Subcontractors to ensure they provide the required Spare Parts in a manner consistent with the terms and conditions of the Contract, and achieve timely delivery of the Spare Parts at the lowest cost;
  - d. respond diligently to any industry or Contracting Authority enquiries concerning the awarding of subcontracts, and inform Contracting Authority of any unresolved enquiries in a timely manner.
- 4.4 The Contractor shall obtain open, fair and competitive bids for the supply of Non-Proprietary Spare Parts IAW the following requirements:
  - a. Seek a minimum of three (3) quotes.
  - b. The Contractor may set-aside the requirement to seek three (3) quotes if it has demonstrated, to the satisfaction of the Requisition Authority, that less than three (3) Subcontractors are capable of providing the Non-Proprietary Spare Parts.

4.5 The Contractor must:

- a. Document any deviation from the competitive process and make the documentation available to the Contracting Authority upon request; and
- b. Demonstrate to the Requisition Authority that it has a competitive process and a prequalification process (if any), reflecting best industry practices.

**5. Approval Limitations:**

5.1 The Approval Limitations for each Spare Parts Orders are as follows:

- a. The Requisition Authority may authorize all individual Spare Parts Orders for Proprietary Spare Parts (Annex C, Appendix 3, Table 1), up to a limit of \$25K, Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions. Any other Tasks or RMR requests in excess of \$25K must be authorized by the Contracting Authority before issuance; and
- b. Any Spare Parts Orders issued for any other requirement must be authorized by the Contracting Authority.

5.2 The Contractor must not proceed with any Spare Parts Orders without the written authorization of the Requisition Authority and/or Contracting Authority, as applicable. Any Spare Part(s) ordered without the necessary written authorization will be considered outside the scope of the Contract and no payment will be made for such work.

## **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

### **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract -ISS

Annex F

#### **INDUSTRIAL AND REGIONAL BENEFITS REQUIREMENTS**

(TERMS AND CONDITIONS, PLANS, TRANSACTIONS, TABLES,  
CERTIFICATE OF COMPLIANCE, TRANSACTION SHEET, AND  
ENHANCED PRIORITY TECHNOLOGY LIST)

## **TABLE OF CONTENT**

- 1. Definitions**
- 2. IRB Commitments and Responsibilities**
- 3. IRB Reporting**
- 4. Canadian Content Value (CCV)**
- 5. Eligibility Criteria for IRB Transactions**
- 6. Technology and Skills Cooperation**
- 7. Investment in Canada**
- 8. Third Party Investments/Venture Capital Funds for Small Business**
- 9. Investments Made to Consortium**
- 10. Investment Framework (IF)**
- 11. Indirect Transactions**
- 12. Direct IRB Transactions**
- 13. Strategic Plans**
- 14. Discretionary Authority**
- 15. Valid Orders**
- 16. Trading / Mutual Abatement**
- 17. Banking**
- 18. Import Replacement**
- 19. Multipliers**
- 20. World Product Mandate**
- 21. Small and Medium Business**
- 22. Enhanced Priority Technology List**
- 23. Announcements**
- 24. IRB Transaction Alterations**
- 25. Contract Price Changes**
- 26. Verification and Access to Records**
- 27. Over-Achievement of IRB Commitments**
- 28. Failure to Achieve IRB Commitments**
- 29. Right of Set-off**
- 30. Responsibilities of the Parties**
- 31. Dispute Settlement - Resolution of Discrepancies**
- 32. Government Organizations**
- 33. Contingency/Success Fees**
- 34. List of Eligible Parties**
- 35. List of Approved Global Value Chain Platforms**
- 36. Compliance with the Lobbying Act**

## **List of Appendices**

- Appendix 1 – Plans, Transactions and Tables
- Appendix 2 – Certificate of Compliance
- Appendix 3 – IRB Transaction Sheet
- Appendix 4 – Enhanced Priority Technology List
- Appendix 5 – Annual IF Activity Report

## 1. Definitions

1.1 For the purpose of this Part, unless the context otherwise requires, the following definitions apply:

- "Achieve", "Achieved", or "Achievement" in relation to any Commitment for Industrial and Regional Benefits (IRB), means the accomplishment of all or any part of an IRB Commitment;
- "Achievement Period" or "IRB Achievement Period" means the period commencing on June 27<sup>th</sup> 2006 and ending two (2) years after the completion of the Period of Performance of the Contract.
- "Allowable IF Investment" - For cash contributions, an Allowable IF Investment means: a grant; or, a purchase of common or preferred shares. It does not include either the purchase of debentures or a repayable loan. For in-kind contributions, an Allowable IF Investment means: a licence for intellectual property (authorization to use the licensed material); equipment (equipment, software or systems to develop new or improved goods/services); knowledge transfer (lending of an employee to provide technical or managerial know-how); or, marketing and sales support (lending of an employee to undertake marketing/sales activities and share market intelligence; or, a licence for brand or trademarks);
- "Banked IRB Transaction" means an IRB Transaction that resides in the IRB Bank that has been approved in writing by the IRB Authority and has met the IRB Eligibility Criteria of Causality, Incrementality, Canadian Content Value and Eligible Party;
- "Canadian Company" or "Canadian Corporation" means a commercial enterprise that is resident and operating in Canada and incorporated, registered or recognized as such, under federal or provincial legislation and which has ongoing business activities in Canada;
- "Canadian Content Value" or "CCV" is as described in Article 4, Canadian Content Value;
- "Capitalization" means the total value of a company's issued shares plus the value associated with instruments which can be converted into shares. For publicly traded companies, this is equal to the total number of issued shares multiplied by the market price plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles. For privately held companies, this is equal to the total number of issued shares multiplied by the most recent price at which they were sold plus the equity portion of any derivative instrument according to Canadian Generally Accepted Accounting Principles;
- "Causality" means the criteria of the IRB Policy which stipulates that a proposed work package or "IRB Transaction" was brought about by an IRB Obligation to Canada as set forth in Article 5, Eligibility Criteria for IRB Transactions;
- "Commercialization Activity" means a process through which economic value is extracted from knowledge through the production and sale of new or significantly improved goods and services. It can also include advertising, sales promotion and other marketing activities. Specific commercialization activities consist of: business and market planning; project feasibility studies; identifying customer needs; market

engagement and testing; basic and applied research; experimental development; profitability analysis and financing; and, launch advertising;

- "Commitment" or "IRB Commitment" means the Contractor's contractual obligation to achieve the CCV for IRB Transactions as set forth in Article 2, IRB Commitments and Responsibilities;
- "Consortium" of Consortia" means a public-private partnership established with the intent of undertaking activities related to research and development, and which must meet the criteria set out in Article 9, Investments made to Consortium;
- "Designated Regions of Canada" means the following regions which have been designated by the Government of Canada for socio-economic purposes: the Atlantic Region (consisting of the Provinces of Newfoundland and Labrador, Prince Edward Island, New Brunswick and Nova Scotia); the Quebec Region, (consisting of the Province of Quebec); the Northern Ontario Region, (consisting of that part of the Province of Ontario northward from the southern limits of Nipissing and Parry Sound Districts and west of the Ottawa River); the Southern Ontario region (consisting of that part of the Province of Ontario that is not included in Northern Ontario); and the "Western Region, (consisting of the Provinces of Manitoba, Alberta, Saskatchewan, and British Columbia);
- "Direct IRB Transaction", "Direct" or "Direct IRB" means an IRB Transaction that is entered into for the performance of any part of the Work under this Contract, and includes work on approved Global Value Chain (GVC) platforms as defined in Article 12;
- "Eligibility Criteria" means those criteria, as defined in Article 5, Eligibility Criteria for IRB Transactions, which a proposed IRB Transaction must meet in order to be accepted by the IRB Authority;
- "Enhanced Priority Technology List" or "EPTL" refers to the list attached as Appendix 4 which identifies the technologies required by Canada that meet the long-term needs of the Department of National Defence;
- "Eligible Party" means the provider of the IRB, and consists of: the Contractor, its parent corporation, and all its subsidiaries, divisions and subdivisions; and first tier suppliers related to the performance of any part of the Work under this Contract. Canadian companies (including first-tier suppliers) with less than 500 employees, will not be accepted as Eligible Parties unless otherwise approved by the IRB Authority;
- "Global Value Chain" means a platform which is similar to the platform being proposed for the Standard Military Pattern component of the MSVS Project, have a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Standard Military Pattern component of the MSVS Project and offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities;
- "IF Business Plan" means a complete and well-supported plan which: includes an executive summary; provides detailed company information and financial statements; describes the proposed IF project; details the specific IF activities, goals and duration; and, includes key market, risk and due diligence considerations;

- "Import Replacement" refers to the production/manufacture of a good or the provision of a service in Canada that was formerly manufactured or provided from off-shore sources of supply;
- "Incrementality" refers to the Eligibility Criteria outlined in Sub-article 5.4, Eligibility Criteria for IRB Transactions which stipulates that an indirect IRB activity must include new work, over and above a baseline of similar previous business activity undertaken by the Contractor with the recipient;
- "Indirect IRB Transaction", "Indirect", or "Indirect IRB" means an IRB Transaction that is entered into for a business activity unrelated to the performance of any part of the Work under this Contract;
- "Industrial and Regional Benefit" or "IRB" or "IRB Transaction" means a commercial or business activity that is carried out by means of a contract, including any purchase order, sales agreement, license agreement, letter of agreement or other similar instrument in writing, that has an identified dollar value, meets the Eligibility Criteria set forth in this Contract and has been approved by the IRB Authority;
- "Investment Framework" or "IF" - means the method of assessing, valuing and calculating IRB credits associated with innovation-related investments made directly with Canadian SMB, as outlined in Article 10;
- "IRB Authority" means the Minister of Industry or any other person designated by the Minister of Industry to act on the Minister's behalf. The IRB Authority is responsible for evaluating, monitoring, verifying and accepting IRB, and for assessing the Contractor's IRB performance under this Contract;
- "IRB Credit" or "Credit" in relation to any IRB Commitment, means the Written Notice by the IRB Authority that an IRB has been achieved in whole or in part and that the Contractor's obligation has to that extent been fulfilled;
- "IRB Investment" means an IRB Transaction which consists of an investment within Canada of a verifiable amount of money which fosters the production of goods or the performance of services by Canadian citizens or permanent residents as defined in the Immigration and Refugee Protection Act 2001, c.27, and which will meet the criteria set forth in Article 7, Investment in Canada;
- "IRB Plans" means the Contractor prepared IRB Plans attached at Appendix 1 which form part of this Contract;
  - IRB Management Plan, dated (to be inserted at contract award), bearing reference number W8476-06-MSMP/L;
  - IRB Regional Development Plan, dated (to be inserted at contract award), bearing reference number W8476-06-MSMP/L; and
  - Small and Medium Business Development Plan, dated (to be inserted at contract award), bearing reference number W8476-06-MSMP/L;
- "IRB Reporting Period" or "Reporting Period" means: Period 1, commencing on the first day of the IRB Achievement Period and ending on the last day of the twelfth month after the Effective Date and a consecutive twelve month increment following Period 1 (Periods 2,3, etc) until the end of the IRB Achievement Period;



- “Major Obligor” means a company which holds contractual commitments for IRB Obligations in Canada in excess of \$1 billion;
- “Mutual Abatement” or “IRB Swap” means a reduction of the Contractor's IRB Obligation in exchange for the reduction of a Canadian company's obligations to a foreign offset authority.
- “Over-achievement” in relation to any IRB Commitment, means the degree or amount by which the Contractor's IRB Credit measured in terms of CCV, granted during the IRB Achievement Period for an IRB Transaction is greater than the IRB Commitment for that IRB Transaction;
- “Pooling” refers to combining IRB Obligations so that an IRB credit achieved on a single IRB Transaction may be applied over several discrete IRB Obligations;
- “Research and Development (R&D) activity” means a scientific investigation that explores the development of new goods and services, new inputs into production, new methods of producing goods and services, or new ways of operating and managing organizations. Specific R&D activities consist of: standard test/measurement/analysis; test/measurement/analysis report; specific thermo-mechanical analysis methodology development projects; product/process design/engineering; customized product/process/ technology development project; related evaluation and feasibility studies; applied research projects for new product concepts, new technology platforms and new test/measurement/analysis; basic scientific research for creating better understanding and insights in new phenomena; research to advance scientific knowledge with or without a specific practical application in view; and support work in engineering, design, operations research, mathematical analysis, computer programming, data collection, testing or research;
- “Shortfall” in relation to any IRB Commitment, means the CCV amount by which the Contractor fails to achieve its Commitment in the IRB Reporting Periods;
- “Small and Medium Business” or “SMB” means a Canadian-based, independently-owned and operated manufacturer or service company with fewer than 250 full-time personnel as of the date of entering into an eligible IRB Transaction. Agents and distributors of foreign goods and services as well as subsidiaries of large firms do not qualify as Small and Medium Business;
- “Semi-processed Goods” means goods converted from their natural state of a raw material through the use of a specialized process into a state of readiness for use or assembly into a final product;
- “Strategic Plan” means a document which describes the Contractor's broad corporate business development plans for Canada and how these plans may translate into strategic IRB activities, as set forth in Article 13, Strategic Plans;
- “Technology Cooperation,” “Technology and Skills Cooperation”, “IRB Technology Cooperation” and “Technology Transfer” consists of the granting of a license, and the transmission of a usable body of knowledge to a Canadian company. Technology Cooperation has no imputed value based on development, but is measured in CCV of future sales resulting from the cooperation output by the IRB Recipient and must meet the criteria set forth in Article 6, Technology and Skills Cooperation;

- "Venture Capital Fund" or "VCF" means a pooled group of investments directed at assisting the growth of Canadian Small Businesses and which is managed by a third party and which will meet the criteria set forth in Article 8, Third Party Investments/Venture Capital Funds for Small Business;
- "World Product Mandate" means a long term supplier relationship between the Contractor or an Eligible Party and a Canadian company whereby the Canadian company has been legally authorized to carry out and has sole responsibility for specific activities including the design, development, intellectual property, manufacture and marketing related to the supply of products, components, modules or services destined for the domestic and world markets. The CCV of the product is calculated as described in Article 20, World Product Mandate.

## **2. IRB Commitments and Responsibilities**

- 2.1 Through the implementation of the IRB Management Plan, the Regional Development Plan and the Small and Medium Business Development Plan detailed in Appendix 1 to Annex F, the Contractor must by the end of the Achievement Period:
- 2.1.1 achieve \$ (to be inserted from Contractor's proposal - at least 100% of contract value) in CCV as Direct and Indirect IRB Transactions as specified in Appendix 1 of Annex F;
  - 2.1.2 achieve \$ (to be inserted from Contractor's proposal) in CCV as Direct IRB Transactions related to the Standard Military Pattern component of the MSVS Project as specified in Appendix 1 to Annex F;
  - 2.1.3 achieve \$ (to be inserted from Contractor's proposal) in CCV as Indirect IRB Transactions related to the Standard Military Pattern component of the MSVS Project as specified Appendix 1 to Annex F;
  - 2.1.4 achieve \$ (to be inserted from Contractor's proposal) in CCV, as Direct and Indirect IRB Transactions in the regions of Canada, as specified Appendix 1 of Annex F, as follows:
    - 2.1.4.1 Atlantic \$ (to be inserted from Contractor's proposal);
    - 2.1.4.2 Quebec \$ (to be inserted from Contractor's proposal);
    - 2.1.4.3 Northern Ontario \$ (to be inserted from Contractor's proposal);
    - 2.1.4.4 Ontario (excluding Northern Ontario) \$ (to be inserted from Contractor's proposal);
    - 2.1.4.5 West \$ (to be inserted from Contractor's proposal);
    - 2.1.4.6 Unallocated \$ (to be inserted from Contractor's proposal);
    - 2.1.4.7 achieve \$ (to be inserted from Contractor's proposal) in CCV for Direct and Indirect Small and Medium Business Development IRB Transactions as specified in Appendix 1;
    - 2.1.4.8 achieve \$ (to be inserted from Contractor's proposal) in CCV, as Direct and Indirect IRB transactions, in technology areas related to the Enhanced Priority Technology List (EPTL), attached as Appendix 4; and
    - 2.1.4.9 carry out each and every IRB Transaction as per the IRB Transaction Sheets attached at Appendix 1.
- 2.2 The Contractor must identify Unallocated IRB valued at \$ (to be inserted from the Contractor's proposal) and to achieving these within the IRB Achievement Period. As new and/or unallocated IRB Transactions are identified by the Contractor and approved by the IRB

Authority, the Direct, Indirect, Regional, Small and Medium Business and EPTL IRB Commitments in Clauses 2.1.2, 2.1.3, and 2.1.4 will be adjusted as applicable.

- 2.3 The Contractor must submit to the IRB Authority, one (1) year after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV. (Tranche 2)
- 2.4 The Contractor must submit to the IRB Authority, three (3) years after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV. (Tranche 3)
- 2.5 As evidence of the Contractor's achievement of IRB Commitments, the Contractor shall provide, appended to the Annual IRB Reports, a Certificate of Compliance, as set forth in Appendix 2 to Annex F to the MSVS-SMP ISS Contract, signed by the senior company Comptroller in respect of each IRB Transaction for which there was activity in that IRB Reporting Period. This Certificate of Compliance also covers those IRB achievements of the Contractor's sub-contractors and/or its Eligible Parties.

### **3. IRB Reporting**

- 3.1 The Contractor must submit the annual IRB Reports, the Tranche 2 and Tranche 3 IRB Reports IAW Annex B – Statement of Work, Appendix BI – Contract Data, CDRL, DID's SMP IRB-001, IRB-002 and IRB-003 – IRB Report, and Appendix 3 of Annex F.

### **4. Canadian Content Value (CCV)**

- 4.1 The CCV of any Direct and Indirect Transaction will be determined by the Net Selling Price Method or the Cost Aggregate Method.
- 4.1.1 Net Selling Price Method: A product which bears a substantiated selling price may have its CCV determined as follows:
- 4.1.1.1 the Net Selling Price is that total selling price of the product, less the applicable customs duties, excise taxes and applicable GST, HST and all provincial sales taxes; and
- 4.1.1.2 the CCV is the Net Selling Price less any costs incurred as set out in Clause 4.3.
- 4.2 Cost Aggregate Method: for any product, service or activity which cannot be assigned a substantiated selling price, the CCV will be the aggregate of the following:
- 4.2.1 the cost of parts produced in Canada, and the cost of materials to the extent that they are of Canadian origin, that are incorporated in the equipment in the factory of the manufacturer in Canada, including parts or materials to the extent that the IRB Authority can verify that they are of Canadian origin and have been exported from Canada and subsequently imported into Canada as parts or finished goods;
- 4.2.2 transportation costs, including insurance charges incurred in transporting parts and materials from a Canadian supplier or frontier port of entry to the factory of the manufacturer in Canada for incorporation in the equipment, to the extent that such costs are not included in the foregoing paragraph; and

- 4.2.3 such part of the following costs, exclusive of GST, HST, all provincial sales taxes, excise taxes, royalties and license fees paid outside of Canada, as are reasonably attributable to the production or implementation of the equipment, service or activity:
  - 4.2.3.1 wages and salaries paid for direct and indirect production and non-production labour in Canada paid to Canadians or to permanent residents as defined in the Immigration and Refugee Protection Act 2001, c.27;
  - 4.2.3.2 materials used in the Work but not incorporated in the final products;
  - 4.2.3.3 light, heat, power and water;
  - 4.2.3.4 workers compensation, employment insurance and group insurance premiums, pension contributions and similar expenses incurred with respect to labour referred to above in sub-paragraph 4.2.3.1;
  - 4.2.3.5 taxes on land and buildings in Canada;
  - 4.2.3.6 fire and other insurance premiums relative to production inventories and the production plant and its equipment, paid to a company authorized by the laws of Canada or any province to carry on business in Canada or such province;
  - 4.2.3.7 insurance purchased specifically from a company authorized by the laws of Canada or any province to carry on business in Canada or such province;
  - 4.2.3.8 rent of factory or office premises paid to a registered owner in Canada;
  - 4.2.3.9 maintenance and repairs to buildings, machinery and equipment used for production purposes that is executed in Canada;
  - 4.2.3.10 tools, dies, jigs, fixtures and other similar plant equipment items of a non-permanent nature that have been designed, developed or manufactured in Canada;
  - 4.2.3.11 engineering and professional services, experimental work and product or process development work executed and completed in Canada;
  - 4.2.3.12 pertinent miscellaneous factory and office expenses, such as administrative and general expenses, including profits earned in Canada, depreciation with respect to production machinery and permanent plant equipment and the installation costs of such machinery and equipment; and a capital allowance not exceeding five per cent of the total capital outlay incurred for buildings in Canada owned by the producer of the work;
  - 4.2.3.13 fees paid for services not elsewhere specified; and
  - 4.2.3.14 pre-tax net profit upon which Canadian taxes are paid or are payable.
- 4.3 Costs or Business Activities that are ineligible for IRB Credit:
  - 4.3.1 the value of materials, labour and services imported into Canada;

- 4.3.2 in the case of Indirect IRB, the value of raw materials and semi-processed goods exported from Canada;
- 4.3.3 the value of any living, relocation costs and remuneration paid to non-Canadians for work on the Project;
- 4.3.4 the amount of all Canadian Excise Taxes, Import Duties, Federal and Provincial Sales Taxes, Goods and Services Taxes, Harmonized Sales Taxes and other Canadian duties;
- 4.3.5 the value of goods and services with respect to which credit has been received or is being claimed by the Contractor or its Eligible Parties as an IRB to Canada under any other IRB agreement;
- 4.3.6 any proposal or bid preparations costs;
- 4.3.7 all transportation costs not covered under Clause 4.2.2;
- 4.3.8 obligations of the Federal Government e.g. government furnished equipment;
- 4.3.9 licence fees paid by the Canadian IRB recipient and any on-going royalty payments;
- 4.3.10 IRB Transactions claimed by a Contractor that pertain to its influence or that of one of its Eligible Parties over their own country's Purchasing Agent/Department or the Purchasing Agent/Department of another country;
- 4.3.11 interest costs associated with Letters of Credit or other financial instruments to support IRB Investments;
- 4.3.12 any fees paid to Lobbyists (as defined by the *Lobbying Act*); and
- 4.3.13 fees paid to third-party consultants or agents for work related to gaining IRB Credit against this Contract. This includes, but is not limited to, providing advice on the IRB Policy, preparation of IRB transactions and/or reports, representing the interests of the Contractor to the IRB Authority, and/or searching for potential recipient firms.

## 5. **Eligibility Criteria for IRB Transactions**

- 5.1 **General:** Wherever possible, the IRB Authority will confirm IRB eligibility prior to a proposed IRB Transaction being accepted into the contract.
  - 5.1.1 The IRB Authority reserves the right to validate IRB eligibility for any or all IRB Transactions identified in Appendix 1 to Annex F within one year of Contract Award. The IRB Authority shall submit to the Contractor within one (1) year of Contract Award a written notice of the IRB Transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have sixty (60) calendar days to submit a package in support of their IRB eligibility claims.
  - 5.1.2 Should the Contractor be unable to satisfy the IRB Authority that the IRB Transaction has met the Eligibility Criteria, future IRB Credits will not be granted and a substitute IRB Transaction will be sought from the Contractor.

- 5.1.3 Contractors should note that all IRB Transactions are subject to annual reporting and verification before IRB credits are confirmed. Should new information arise during verification that seriously calls in to question the eligibility of an IRB Transaction, the IRB Authority will review and investigate as soon as possible.
- 5.2 **Causality** - each IRB Transaction shall be one which was clearly and demonstrably brought about by either the Contractor or one of the Contractor's Eligible Parties as a result of a current or anticipated IRB Obligation to Canada. It shall not be one which probably would have been entered into if an IRB obligation had not existed. Causality may be demonstrated to a specific project or more broadly to a company's IRB obligation in general.
- 5.2.1 The responsibility for demonstrating causality lies with the Contractor or its Eligible Party, not the IRB Recipient.
- 5.2.2 Given the large volume of defence procurements, Contractors and their Eligible Parties are often engaged in IRB planning and execution on several projects with IRB obligations. Therefore, causality may be demonstrated to a specific project or more broadly to a company's IRB obligations in general.
- 5.2.2.1 The Contractor or its Eligible Party must demonstrate causality beyond generic statements on the transaction sheet. They should provide a clear statement on Causality, which outlines the details involved in their decision about a procurement or investment activity.
- 5.2.2.2 As IRB activities should make good business sense to the Contractor or Eligible Party, the causality provision does not require that the IRB obligation be a company's only decision-making factor. However, the Contractor or its Eligible Party must show the link between Canada's IRB Policy and their decisions related to the IRB activity.
- 5.2.2.3 As further demonstration of Causality to this Contract, the IRB Authority's written approval for a proposed IRB Transaction shall be obtained prior to the Contractor, on behalf of itself, its Eligible Parties and Canadian recipients, making public announcement, media or press releases related to the proposed business activities. Failure to do so may result in the rejection of the business activity as an IRB under the Contract.
- 5.2.3 The Contractor or its Eligible Parties must provide clear evidence of causality. Failure to provide sufficient evidence of causality will result in the ineligibility of the IRB Transaction.
- 5.2.3.1 Evidence of Causality includes a history of events in the development of an IRB Transaction and any supporting written documentation. The Contractor or its Eligible Party should provide as much detailed supporting documentation as possible at the time of the IRB Transaction submission that supports the statement on Causality. This documentation may include but not be limited to: internal emails, official correspondence, meeting notes, corporate presentations, etc. The IRB Authority seeks documentary evidence that links decisions regarding the IRB transaction to the donor's IRB obligation.
- 5.3 **Timing** - IRB Transactions must be implemented within the Achievement Period. IRB Transactions or substitute IRB Transactions identified after the Effective Date will only be accepted provided the activity meets the IRB Eligibility Criteria and does not occur prior to the date of identification of the IRB Transaction.
- 5.4 **Incrementality** - where an Indirect IRB Transaction is for the purchase of goods or services from a Canadian source, such goods and services will be similar to those that the purchaser had acquired in Canada prior to the date of identification of the IRB Transaction.

5.4.1 The CCV of the IRB Transaction will be determined only with respect to the increase that the IRB Transaction will provide over the average amount of orders placed by that purchaser for those goods or services from the Canadian source during the three years preceding the date of identification of the IRB Transaction.

5.5 **Eligible Party** - IRB Transactions must be undertaken by an Eligible Party as defined in this Contract. In any case, the Contractor shall be 100% responsible for IRB Commitments, regardless of flow down to Eligible Parties. A list of approved Eligible Parties for the Contract is found in Article 34.1.

## 6. Technology and Skills Cooperation

6.1 In order to qualify as a technology and skills cooperation IRB Transaction, the activity must meet the following criteria:

6.1.1 technology must be in a form that is sufficiently complete to allow the Canadian recipient to apply the knowledge to existing or new products or processes;

6.1.2 technology must be proprietary, current and equivalent to or better than that used on the Project;

6.1.3 all required licenses or permits to facilitate the sale of products/services domestically or for export must be included;

6.1.4 the transferor must make available all engineering and technical advice and assistance required to exploit and keep current the transferred technology and all related information (drawings, methods of application, etc.);

6.1.5 the Canadian company must have access to domestic and foreign markets and have the resources to exploit the technology in these markets; and

6.1.6 the technology must be exploitable in terms of the capability (financial and technical) of the Canadian company to use and keep it current.

6.2 The Contractor must make available, upon request by the IRB Authority, the licensing agreement with the Canadian recipient. Failure to do so will result in the technology and skills cooperation IRB Transaction being rejected.

6.3 The technology and skills cooperation must be measured in Canadian Content Value of the future sales, export sales or import replacement, of goods or services by the Canadian company as a result of the technology and skills cooperation. In addition, the Contractor may be credited for reasonable costs incurred as a result of the technology and skills cooperation once the achievement in future sales surpasses the cost of the technology and skills cooperation. Reasonable costs incurred include:

6.3.1 training costs;

6.3.2 set-up of infrastructure needed to exploit the technology; and

6.3.3 any others as deemed reasonable by the IRB Authority.

6.4 IRB in the form of technology and skills cooperation with Canadian companies may include activities such as:

- 6.4.1 participation in the design, development and manufacture of new or improved systems;
  - 6.4.2 the provision of new process technologies that will enhance Canadian industry by improving their capabilities in present product lines and enhance their export potential; and
  - 6.4.3 the provision of licences which will allow Canadian companies to manufacture new or existing components of major systems for export sale and import replacement.
- 6.5 All costs to develop the technology will be ineligible for IRB credit.

## **7. Investment in Canada**

- 7.1 IRB can be derived from activities such as investment in Canada. These investments must meet the IRB Eligibility Criteria and must be made directly by the Contractor or its Eligible Party and placed directly with a Canadian recipient.

- 7.1.1 The Contractor will be credited the CCV of future sales resulting from the specific investment, and the amount of the investment, once the Achievement surpasses the amount of the initial investment. The credited future sales will be prorated by multiplying the applicable sales to the ratio of the Contractor's own direct investment in the company relative to that company's Capitalization at the time the investment was made once the accepted IRB credits surpasses the amount of the total investment.

Credited Future Sales =

Applicable Sales X  $\frac{\text{Contractor's own direct investment in Canadian Recipient}}{\text{Canadian Recipient's Capitalization at the time the investment was made}}$

- 7.2 The investment must be for the purchase of equity such as common shares or preferred shares. Use of the investment to purchase debentures is not permitted.
- 7.3 The investment made by the Contractor or its Eligible Parties will remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the investment is placed with the recipient. Failure to do so will result in the immediate clawback of all IRB approved credits for the IRB Transaction by the IRB Authority. No further IRB credits will be approved for that particular transaction.
- 7.4 In the event the Contractor or an Eligible Party invests in its own Canadian facilities, the investment and the incremental sales resulting from that investment are eligible for IRB credit, assuming the investment itself is causal to the IRB obligations of the Contractor or Eligible Party. This is also provided that the investment results in a net benefit to Canada and that the transaction does not result in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada.
- 7.5 The capital associated with the purchase of a Canadian company that is considered a "going concern" is not an eligible investment for IRB purposes. If the investment is for a Canadian company that has declared bankruptcy, then the investment can be counted for IRB purposes.
- 7.6 Investment transactions may include:



- 7.6.1 the establishment or enhancement of a Canadian facility or project which will develop Canada's advanced technology industries, and provide a capability that does not already exist in Canada. Consideration on the eligibility of the proposed IRB transaction will also be based on whether the transaction results in overcapacity, shutdowns of existing companies or losses of prospective sales by existing companies in Canada; or
- 7.6.2 the development of joint ventures with Canadian firms, which will contribute to their long-term viability and increase sales in both domestic and international markets.

## **8. Third Party Investments/Venture Capital Funds for Small Business**

- 8.1 In any instance where the Contractor or its Eligible Party is not placing an investment directly with a Canadian recipient, and is utilizing a third party to manage such investments, the method of crediting such investments will be as detailed in this Clause. Any organization which manages investments such as, but not limited to Banks, Trust Companies, Venture Capital Funds, and Investment Companies, will not be an Eligible Party to the Contract, but will be deemed a third party. A portion of a Contractor's investment may come from the placement of funds into a Venture Capital Fund (VCF) directed at assisting the growth of Canadian small businesses through their development and exploitation of new technologies. The multiplied IRB credit related to these investments will not exceed 5% of the IRB Commitment Value. Contributions in support of Canadian small business are permitted within the following parameters:

- 8.1.1 Timing

- 8.1.1.1 IRB credit can be claimed when:

- 8.1.1.1.1 the Contractor makes a financial contribution to a qualifying VCF. Only the face value of the contribution, measured in Canadian dollars, can be sought as an IRB at this time; and,
    - 8.1.1.1.2 the VCF Manager invests funds with a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. Failure to do so will result in the immediate clawback of all IRB credits claimed or approved for the IRB Transaction by the IRB Authority.

- 8.1.2 All VCF related IRB credits claimed by the Contractor are subject to verification and approval by the IRB Authority before IRB credits are accepted.

- 8.2 Scope

- 8.2.1 Privately held small business recipients of the VCF investment will have 50 employees or less (service based industries) or 100 employees or less (manufacturing based industries) at the commencement of the investment.
  - 8.2.2 Initial investments by the VCF Manager, including co-investments, in eligible small businesses cannot exceed \$1M.
  - 8.2.3 Small business recipients will generally be involved in the development, manufacture or commercialization of a technologically advanced product or service in one of the following sectors:

- 8.2.3.1 Life sciences (biotechnology, medical devices and pharmaceuticals)
- 8.2.3.2 Health
- 8.2.3.3 Advanced materials
- 8.2.3.4 Advanced manufacturing
- 8.2.3.5 Environment
- 8.2.3.6 Information and communications technologies, and
- 8.2.3.7 Aerospace and defence

8.2.4 Only Canadian registered and managed VCFs which support the above industrial sectors will be acceptable. The Contractor will have to provide evidence that a high percentage of a chosen fund's investment activity is with companies that are in the above sectors.

### 8.3 Multiplier for IRB Credit Purposes

8.3.1 The multiplier for IRB credit purposes is 5:1. The IRB credit will be given for the initial contribution at the time of the deposit to the VCF by the Contractor. The IRB credit that makes up the remaining multiples will be offered when the VCF Manager assigns the funds to a Canadian small business and the funds remain placed with the Canadian recipient for a minimum of three (3) years, starting from the date the funds are placed. The maximum multiplied IRB credit for the Project is 5% of the IRB Commitment Value.

### 8.4 Limitation to Third Party Investments/Venture Capital Funds for Small Business

8.4.1 Once a small business reaches the Initial Public Offering stage, no further IRB credit will be granted by the IRB Authority for further VCF investment to the Canadian small business.

### 8.5 Performance Guarantees

8.5.1 IRB Transaction sheets related to qualifying VCF transactions are stated in the multiplied value of the proposed contributions to the VCF. This multiplied value is part of the Contractor's total IRB commitment, and as such is subject to the performance guarantees stipulated in this Contract.

8.5.2 If the Contractor fails to achieve an approved IRB Transaction involving a VCF, the full "multiplied" value of its IRB Commitment must be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not be subject to the multiplier.

## 9. Investments Made to Consortium

9.1 In any instance where the Contractor or its Eligible Party invests in research and development through a consortium, the method of crediting such investments will be as detailed in this Clause. A consortium will consist of an association of the following: the Contractor or its Eligible Party, a minimum of one (1) Canadian company and a minimum of one (1) Canadian post-secondary institution or not for profit research institution. Investments will be permitted in the form of cash donations as well as in-kind contributions.

### 9.1.1 Timing

9.1.1.1 IRB credit can be claimed when:

- 9.1.1.1.1 the Contractor makes a financial contribution to a qualifying consortium; and,
    - 9.1.1.1.2 the Consortium partner(s) make their contribution the consortium.
  - 9.1.1.2 All Consortia related IRB credits claimed by the Contractor are subject to annual reporting and verification and approval by the IRB Authority before IRB credits are approved.
- 9.1.2 Scope
  - 9.1.2.1 A Consortium will be considered as an association between the Contractor(s), Canadian company(s) and Canadian research institute(s). The association will consist of a minimum of:
    - 9.1.2.1.1 the Contractor or its Eligible Party; and,
    - 9.1.2.1.2 a minimum of one (1) publicly or privately owned Canadian company; and,
    - 9.1.2.1.3 a minimum of one (1) post-secondary or public research institution.
  - 9.1.2.2 Involvement of non-Canadian company(s) in the consortia will be permitted. The combined total investment from foreign sources must not exceed fifty (50) percent of the Consortium value.
  - 9.1.2.3 The Contractor will not be able to claim its Consortium partner(s) as Eligible Parties to this Contract. In cases where an existing Eligible Party to the Contract participates in a Consortium, a separate IRB Transaction Sheet must be submitted that describes the Eligible Parties' involvement in the Consortium to claim credits for contributions leveraged by the Eligible Party. At no time will the Contractor and Eligible Party be able to claim for the same contributions.
  - 9.1.2.4 In addition to demonstrating Causality, the Contractor will be responsible for demonstrating how its involvement in the Consortium leveraged the investments from the other parties involved.
  - 9.1.2.5 The Contractor may choose to invest in an existing Consortium and will be credited for its investment into the Consortium. In order to receive credit for funds invested by other companies, the Contractor must demonstrate that the additional funds invested into the Consortium were the result of the Contractor's participation. The Contractor will not receive credit for funds already existing in the Consortium prior to their participation.
  - 9.1.2.6 The Contractor will not be eligible to claim IRB credit on any funds leveraged by other parties and applied to other IRB obligations. In cases where multiple contractors with IRB obligations are involved in a Consortium, each of these contractors may be eligible to receive IRB credit for their own contribution and that of the partners they attract to the Consortium.

- 9.1.2.7 Contributions to the Consortium may take the form of in-kind donations. These donations will not be eligible for a multiplier. In the case of equipment, tools and other final goods, credit for these will be given based on an assessment to be undertaken by a Third Party to this Contract solely at the cost of the Contractor. Donations that cannot be assessed by a Third Party may be credited for reasonable costs incurred. The costs of these assessments will not be eligible for IRB Credit.
- 9.1.2.8 The future sales that may arise from the Consortium will not be considered for IRB Credit under this Clause. Should the Contractor procure goods and services from the Consortium, the purchase will be considered as a separate IRB Transaction. No multiplier will be applied to these future sales.
- 9.1.3 Multiplier for IRB Credit Purposes
  - 9.1.3.1 The multiplier for IRB credit purposes will be credited as follows. An initial value will be the sum of the following:
    - 9.1.3.1.1 the value of cash contributions from the Contractor to the Consortium; and
    - 9.1.3.1.2 the value of cash contributions from other eligible participants, leveraged by the Contractor's participation in the Consortium, up to a maximum value equal to that of the Contractor's contribution.
  - 9.1.3.2 However, the following will not be eligible for IRB Credit:
    - 9.1.3.2.1 contributions from post-secondary institutions and not-for-profit research and development institutions will not be counted towards the Contractor's obligations; and
    - 9.1.3.2.2 direct contributions from all levels of government into the Consortium.
  - 9.1.3.3 Once an initial value is established, the Contractor will receive a five (5) times multiplier on the initial value.
  - 9.1.3.4 When a Consortium IRB Transaction is submitted, the Contractor must identify the manner that it proposes to calculate the regional distribution. The Contractor may opt to make regional commitments based on where funding for the Consortia originates as a proportion of the total Canadian funding. Alternatively, the Contractor may opt to make regional commitments based on where the work associated with the Consortium is taking place. In either situation, once a Contractor selects a regional calculation, the Contractor will be held to this selection.
- 9.1.4 Performance Guarantees
  - 9.1.4.1 IRB Transaction sheets related to qualifying Consortium transactions are stated in the multiplied value of the proposed contributions to the Consortium. This multiplied value is part of the Contractor's total IRB

commitment, and as such is subject to the performance guarantees stipulated in this Contract.

- 9.1.4.2 If the Contractor fails to achieve an approved IRB Transaction involving a Consortium, the full “multiplied” value of its IRB Commitment will be made up with other IRB activities that meet the IRB Eligibility Criteria. Substitute transactions will not automatically be subject to a multiplier.

## **10. Investment Framework (IF)**

- 10.1 IRB Transactions may involve R&D or commercialization investments made directly with a Canadian SMB. The methods of assessing, valuing and crediting these investments are detailed in this clause.

- 10.2 Proposed IF activities will be reviewed, approved and awarded by the IRB Authority using the following gate process:

Gate 1 - Term Sheet Eligibility  
Gate 2 - Investment Valuation  
Gate 3 - Determination of IRB Credits and Transaction Sheet Approval  
Gate 4 - Monitoring and Award of IRB Credit

- 10.2.1 Gate 1, Term Sheet Eligibility - Proposed IF activities must meet all six of the following eligibility criteria:

- 10.2.1.1 Investment must be linked to research and development (R&D) and/or commercialization activities, as defined in this Contract;
- 10.2.1.2 Investment must be with a Canadian SMB, as defined in this Contract;
- 10.2.1.3 Investment must meet the IRB Eligibility Criteria, as defined in this Contract;
- 10.2.1.4 Investment must be an Allowable IF Investment, as defined in this Contract;
- 10.2.1.5 IF activity must have a duration of at least five (5) continuous years, beginning at the date the investment is made; and,
- 10.2.1.6 A complete IF Business Plan, as defined in this Contract, must be submitted to the IRB Authority.

- 10.2.2 Gate 2, Investment Valuation – Eligible IF activities will be valued, using the following methods:

- 10.2.2.1 Eligible cash investments will be taken at face value.
- 10.2.2.2 Eligible in-kind investments will be valued by an independent third party who possesses a Chartered Business Valuator designation (or other similar designation) and who complies with all by-laws, code of ethics and practice standards of the organizational body governing their profession. Valuation reports will be detailed and comprehensive and use all standard, generally-accepted report formats and valuation approaches and arrive at one conclusion regarding valuation which balances all three approaches. The Contractor or its Eligible Party will assume all costs associated with obtaining the valuation report. The valuation report is valid for 12 months.

- 10.2.3 Gate 3, Determination of IRB Credits – The following multipliers will be applied to the value of the eligible IF investment:
- 10.2.3.1 Cash for R&D activities; or, License for IP – nine (9)
- 10.2.3.2 Cash to purchase, or in-kind transfer of, Equipment – seven (7)
- 10.2.3.3 In-kind transfer of Knowledge and/or Marketing/Sales Support – four (4)
- 10.2.4 Gate 4, Monitoring and Award of IRB Credits –
- 10.2.4.1 The multiplied IRB credits resulting from an IF activity will be awarded along the following timeline:
- 50 percent up front, once the investment activity is made according to the business plan, reported to the IRB Authority, and verified by the IRB Authority;
  - 50 percent apportioned over the remaining years of the IF project, as annual IF reporting requirements are met.
- 10.2.4.2 The Contractor will be deemed as having met each year's annual IF reporting requirements once the Contractor:
- reports on its IF activities through the established IRB Annual Reporting requirements outlined in Article 3, "IRB Reporting";
  - includes in its IRB Annual Report each year a specific and complete IF activity report, using the template provided at Appendix 5 to Annex F of this contract, "Annual IF Activity Report."
- 10.3 The total issued IRB credits associated with IF activities cannot exceed five (5) percent of the total IRB obligation value in this Contract, as identified in Article 2.1.1.
- 10.4 The investment must be made within 12 months from the date of either: the final transaction approval from the IRB Authority (cash); or, the third party valuation report (in-kind).
- 10.5 The investment must remain with the SMB for at least five (5) continuous years and be used for the purposes outlined in the Business Plan.
- 10.6 IRB credits may be disallowed or revoked by the IRB Authority in any of the following circumstances:
- 10.6.1 failure to provide a detailed, complete and accurate "Annual IF Activity Report" in each year of the IF project;
- 10.6.2 removal, in whole or in part, of the IF investment from the SMB prior to the end of five continuous years; or
- 10.6.3 use of the IF investment for purposes other than those outlined in the IF Business Plan.
- 10.7 A "Guide for Applicants" is available on the IRB Website ([www.ic.gc.ca/irb](http://www.ic.gc.ca/irb)), which provides additional details on the IF processes, timelines and deliverables. The Guide also provides the templates to be used by the Contractor or its Eligible Party during the IF submission process.

## **11. Indirect Transactions**

- 11.1 An Indirect IRB in the form of a purchase of goods or services, not specifically for use in the Work, shall be equivalent level of technology to the Project with applications in Canadian advanced technology industries. A credit for these purchases will be given equal to their CCV under the following conditions:
- 11.1.1 if the CCV is less than 30 percent of the total content for a given activity, then this activity will not qualify as a IRB Transaction; and
- 11.1.2 if the CCV is equal or greater than 30 percent, then the CCV will qualify as an IRB.

## **12. Direct IRB Transactions**

- 12.1 Direct IRB Transactions are those achieved through the provision of the goods and services required to deliver the Standard Military Pattern component of the MSVS Project or achieved through the provision of goods and/or services on approved Global Value Chain (GVC) platforms.
- 12.2 Canadian resources should be utilized to the maximum extent possible to develop, produce, integrate and deliver the Standard Military Pattern Vehicle. Eligible areas of involvement include hardware and software, project management, systems design, engineering and integration, programming and independent validation and verification, installation engineering and site installation, and transportation.
- 12.3 An eligible Global Value Chain (GVC) platform must be similar to the platform being proposed for the Standard Military Pattern Vehicle, have a market potential (measured by market size and longevity) equal to or greater than the platform proposed for the Standard Military Pattern Vehicle and one that offers significant opportunities for technological advancement, growth in the level of system integration, small and medium-sized business (SMB) participation, and have large-scale and sustainable acquisition and/or sustainment opportunities.
- 12.4 Activities associated with GVC platforms include, but are not limited to, pre-commercialization activities (e.g. collaborative technology development and demonstration projects), production activities (e.g. definition, design, and manufacturing) and ISS activities.
- 12.5 A list of approved GVC platforms is found in Article 35. The IRB Authority reserves the right to seek validation of the eligibility of the GVC platforms found in Article 35.1, within one year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one (1) year of Contract Award a written notice of the GVC platforms that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have sixty (60) calendar days to submit a package in support of their GVC eligibility claims. Should a GVC platform be found to not meet the GVC criteria (outlined in Article 12.3), any IRB Transactions involving that platform will not be eligible to be used towards meeting the minimum Direct IRB requirement outlined in Article 2.1.2.

## **13. Strategic Plans**

- 13.1 Major Obligors to Canada are required to submit a Strategic Plan to the IRB Authority annually if the contractor is a major obligor as defined in Article 1.1.
- 13.1.1 The Contractor and the IRB Authority will meet annually to update, review and discuss the Contractor's Strategic Plan.

- 13.1.2 Representatives at senior levels of the corporation and senior levels of Industry Canada will be available for annual meetings.
- 13.2 The Contractor's Strategic Plan should include:
  - 13.2.1 a description of the Contractor's broad corporate plans for Canada over the medium-term (3-5 years) and long-term (5+ years);
  - 13.2.2 how these corporate plans may translate into IRB activities;
  - 13.2.3 an overview of the Contractor's current and anticipated IRB Obligations to Canada; and
  - 13.2.4 IRB Partnerships with tier-one suppliers or other Eligible Parties.
- 13.3 Contractors with multiple IRB obligations totalling less than \$1 billion may also submit a Strategic Plan to the IRB Authority; however, neither the IRB Authority nor the Contractor will be required to meet annually to discuss the Strategic Plan.
- 13.4 Contractors with Strategic Plans approved by Industry Canada may be permitted to "pool" high value, strategic IRB business activities.
- 13.5 Pooled IRB Transactions must meet the following criteria:
  - 13.5.1 meet the IRB Eligibility Criteria as described in Article 5, Eligibility Criteria for IRB Transactions;
    - 13.5.1.2 have a value of over \$100 million measured in CCV; and
    - 13.5.1.3 provide long term impact to the Canadian recipient including R&D support, first purchase of innovative Canadian technologies, market leadership, world product mandate, global value chain activities, or technology advancement.
- 14. Discretionary Authority**
- 14.1 Not used.
- 15. Valid Orders**
- 15.1 The extent to which each IRB Transaction will qualify will be based on and limited to valid orders and/or contracts delivered by the end of the IRB Achievement Period.
- 16. Trading / Mutual Abatement**
- 16.1 Trading of IRB credits is not permitted, as well Mutual Abatement is not permitted.
- 17. Banking**
- 17.1 A total of 50% of the IRB Commitment value may be met with Banked IRB Transactions from the IRB Bank. The entire CCV of a Banked IRB Transaction, not portions thereof, must be applied to a single IRB Transaction proposed under the Contract. Each transaction must clearly state that it is a Banked IRB Transaction. The Banked IRB Transaction must contain the exact information as submitted to the IRB Bank.



**18. Import Replacement**

- 18.1 Import replacements due to the transference of work into Canada will be counted for IRB purposes.

**19. Multipliers**

- 19.1 Multipliers are only permitted on IRB Transactions involving cash contribution input to Canadian universities for university research or the establishment of university Chairs; investments in advanced technology skill development through publicly operated post secondary institutions; collaborative research undertaken with publicly accessible research institutions (e.g. the National Research Council or other federal or provincial research institutions); contributions to Venture Capital Funds specializing in small business development; and cash contributions to research and development through a Consortium. Multipliers will not exceed five (5:1).

**20. World Product Mandate**

- 20.1 If a product designed, developed and manufactured by a Canadian company is the subject of a world product mandate, where it is a long term relationship between the Contractor or an Eligible Party and a Canadian company, whereby the Canadian company has been legally authorized to carry out the aforementioned specific activities, and is identified as such in an Indirect IRB Transaction, and where the CCV of the product is verified to be seventy (70) percent or greater, the full contract value of the transaction will be deemed to be CCV.

**21. Small and Medium Business**

- 21.1 For the benefit of Small and Medium Business and to lessen their administrative burden, if at least seventy (70) percent of the value of an IRB Transaction below \$100,000.00 is CCV, that contract will be deemed to have 100 percent CCV for reporting and verification purposes only.

**22. Enhanced Priority Technology List**

- 22.1 Version 1.0 of the EPTL is attached as Appendix 4 to Annex F and applies to this contract. The IRB Authority will assess proposed EPTL transactions to determine whether they are: relevant to the EPTL List Version 1.0; and, of a unique and/or transformational nature to existing global product offerings. All EPTL transactions must meet the IRB Eligibility Criteria outlined in Article 5.
- 22.2 The IRB Authority may publish updated versions of the EPTL. Such a subsequent published version of the EPTL may be considered to replace Version 1.0 in this Contract. Replacing the EPTL would require agreement between the IRB Authority and the Contractor, as part of a contract change proposal submitted to the Contracting Authority.
- 22.3 In the case where EPTL Version 1.0 is replaced with a subsequent version, any IRB Transactions which have already been accepted by the IRB Authority as eligible under Version 1.0 will remain unaffected by the change to a subsequent version.
- 22.4 The Contractor may choose to submit a banked EPTL-related transaction for the Standard Military Pattern component of the MSVS Project. (Please see Article 17 – Banking.) With respect to a banked EPTL transaction, the Version of the EPTL which was in effect at the time of the transaction's acceptance into the IRB Bank may be different than the version applicable to the Standard Military Pattern component of the MSVS Project. In that case, the banked EPTL transaction can nonetheless be counted towards the EPTL requirement on the Standard Military Pattern component of the MSVS Project.

22.5 The IRB Authority reserves the right to seek validation of the eligibility of the EPTL Transactions found in Appendix 1 to Annex F within one (1) year of the Effective Date of the Contract. The IRB Authority shall submit to the Contractor within one (1) year of Contract Award a written notice of the EPTL Transactions that the IRB Authority wishes to validate. Once the request is made, the Contractor shall have sixty (60) calendar days to submit a package in support of their EPTL eligibility claims. Should an EPTL transaction be found to not meet the EPTL criteria (outlined in Article 22.1), it will not be eligible to be used towards meeting the EPTL requirement outlined in Article 2.1.4.8.

22.6 The IRB Authority is the single point of contact between industry and government regarding the EPTL. All enquiries regarding the EPTL contents should be directed to the IRB Authority.

### **23. Announcements**

23.1 Industry Canada reserves the right to make general announcements on contracted or signed Memorandum of Understanding IRB Transactions. Announcements would include company names, general descriptions of the work being proposed and approximations of CCV and subcontract value.

### **24. IRB Transaction Alterations**

24.1 The Contractor must not alter the IRB Commitments listed in Appendix 1 of Annex F unless:

24.1.1 the Contractor has submitted a proposal to the IRB Authority through the Contracting Authority, with respect to the alteration; and,

24.1.2 the IRB Authority through the Contracting Authority has given written approval to the Contractor and requested the Contracting Authority to amend the Contract accordingly.

24.2 The Contractor may propose alterations to or substitutions for any of the IRB Transaction(s) listed in Appendix 1 of Annex F, and the IRB Authority may accept these requests provided that in the judgment of the IRB Authority:

24.2.1 the circumstances requiring the change are exceptional and likely to result in undue hardship upon the Contractor if a change is not made;

24.2.2 the obligations of this Contract are maintained i.e. the overall Regional and Small and Medium Business Commitments are maintained;

24.2.3 the proposed alterations or substitutions meet the IRB Eligibility Criteria stated in this Contract;

24.2.4 the proposed substitute IRB Transaction or multiple transactions may not less than the IRB Transaction to be replaced both as to the level of technological sophistication of the work to be performed and the CCV;

24.2.5 Canadian industry will receive the maximum high-quality, low risk, Direct Benefits associated with the delivery of the work; and

24.2.6 Canadian industry will receive high-quality, low risk, Indirect Benefits of the same level of technology as the Direct Benefits.

**25. Contract Price Changes**

- 25.1 Where the Contract is to be amended, the IRB Commitments as specified in Article 2, IRB Commitments and Responsibilities, will be correspondingly either increased or decreased to reflect this amendment.

**26. Verification and Access to Records**

- 26.1 The Contractor must implement the IRB procedures and practices as described in the IRB Management Plan. Any changes to the IRB Management Plan are subject to approval by the IRB Authority.
- 26.2 The Contractor must keep proper records and all documentation relating to the determination of the CCV of the work provided under this Contract, including invoices and proof of payments. The Contractor must not, without the prior written consent of the IRB Authority, dispose of any such records or documentation until the expiration of two (2) years after final payment of this Contract, or until settlement of all outstanding claims and disputes, whichever is later. All such records and documentation must at all times during the aforementioned retention period be open to verification, inspection and examination by the IRB Authority or his/her delegate, who may make copies thereof and take extracts therefrom.
- 26.3 In addition, the IRB Authority may request the Contractor provide copies of all such information be sent to him/her via mail or courier for a random sample of IRB Transactions as he/she may from time to time request.
- 26.4 If the IRB Authority determines that the information contained in the annual report and certified by the Certificate of Compliance will be verified, the Contractor must undertake to provide the IRB Authority with access, at all reasonable times, and within sixty (60) calendar days of being notified, to its accounts and records relating thereto and must, by obtaining similar undertakings in the subcontracts of all Eligible Parties, arrange for the same in respect of any subcontracts and suppliers carrying out the work.
- 26.5 Where, subsequent to the verification action taken pursuant to this Clause, the IRB Authority determines that the records are insufficient to verify the Contractor's achievements in respect of any IRB Commitment, the Contractor must provide such additional information as may be required by the IRB Authority.
- 26.6 Where it cannot be verified that an IRB Transaction has provided the IRB claimed, that portion of the IRB which cannot be verified will be considered as not having been achieved and the IRB Authority will give Notice to the Contractor of the shortfall through the Contracting Authority.
- 26.7 Should the Contractor disagree with a decision delivered pursuant to the above paragraph, the Contractor, within twenty (20) Business Days from the notification of the said decision, may appeal, by Notice to the Contracting Authority, the above decision by describing fully the issue, all relevant factors and the reasons for its disagreement with the said decision. The IRB Authority, on subsequent review of the factors surrounding the disagreement, will issue a final determination, identifying the amount of any such IRB achieved.
- 26.8 If the IRB Authority determines that a significant Shortfall in the Contractor's total IRB Commitment exists and if the IRB Authority believes that the Contractor will not meet its total IRB Commitment, the IRB Authority may give, through the Contracting Authority, notice to the Contractor and request the Contractor to submit a proposal showing how the Contractor plans to correct such deficiencies. The Contractor must submit its proposal within sixty (60) calendar days of receipt of such notice. If the proposal is not acceptable to the IRB Authority, the IRB Authority may request the Contracting Authority to suspend payment.

- 26.9 The Contractor's overall IRB Commitments, claims and achievements, is information available to Parliament and is considered by the Canadian Government as information that can be released to the public. However, the Contractor's specific corporate and transactional information is considered as commercial confidential and its receipt, storage and protection is governed by applicable federal laws and processes. Contractors are encouraged to clearly mark their documents identifying each page as belonging to them and containing sensitive, commercially confidential information

## **27. Over-Achievement of IRB Commitments**

- 27.1 The Contractor may achieve a CCV for any Commitment in excess of the value stated in the IRB Transactions without prior approval. When an over-achievement occurs in an IRB Transaction Commitment, subject to the prior written approval of the IRB Authority, the over-achievement may be applied against the shortfall or unallocated portion of the IRB Transactions, as long as the Regional and Small and Medium Business Commitments are achieved. An over-achievement in one Region will not be applied to reduce a shortfall in another Region.

## **28. Failure to Achieve IRB Commitments**

### **28.1 Liquidated Damages:**

- 28.1.1 In respect of the failure to achieve any of the Commitments in clauses 2.1 to 2.5, IRB Commitments and Responsibilities, by the end of the IRB Achievement Period, the Contractor must immediately pay to Canada as liquidated damages 10% of the Shortfall.
- 28.1.2 In the event that liquidated damages arise under more than one of the IRB Commitments, the Contractor will be liable only under the IRB Commitment which results in the highest liquidated damages.
- 28.1.3 Included in the total IRB Commitments are the unallocated IRB Commitments.

### **28.2 Holdback/Stop Payments:**

- 28.2.1 The Contractor must submit to the IRB Authority, one (1) year after Contract Award, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 60% of the contract value, measured in CCV.
- 28.2.2 If at the end of IRB Reporting Period 2, it is confirmed through the submission and evaluation of transactions that the Contractor failed to identify 60% of the IRB Commitment Value in eligible IRB Transactions by the end of Reporting Period 1, Canada will suspend contract payments until the situation is remedied.
- 28.2.3 The Contractor must submit to the IRB Authority, by the end of IRB Reporting Period 6 acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.
- 28.2.4 If at the end of the IRB Reporting Period 4, and it is confirmed through the submission and evaluation of transactions that the Contractor has failed to identify 100% of the IRB Commitment Value in eligible IRB Transactions by the end of Reporting Period 2, Canada will suspend contract payments until the situation is rectified.

- 28.2.5 The Contractor must submit to the IRB Authority, six (6) months after each contract option is exercised, acceptable IRB Transactions which are detailed, fully described and which bring the cumulative total of identified acceptable IRB Transactions to 100% of the contract value, measured in CCV.
- 28.2.6 If six (6) months after each option is exercised, it is confirmed through the submission and evaluation of transactions that the Contractor has failed to identify 100% of the IRB Commitment Value in eligible IRB Transactions, Canada will suspend contract payment until the situation is remedied.
- 28.2.7 With respect to the stop payment clauses outlined in sub-articles 28.2.2, 28.2.4 and 28.2.6, a grace period of thirty (30) calendar days, beginning on the date of failure notification by the IRB Authority, will pass before the Holdback takes effect. Within this period, the Contractor may take corrective action.
- 28.3 In the event that the Contract is terminated for default pursuant to the General Conditions Clause entitled "Default by the Contractor", the Contractor will immediately pay to Canada an amount equal to the Liquidated Damages that would be payable under clause 28.1.1 based on the shortfall in regard to those Commitments that, according to Appendix 1 of Annex F (Plans, Transactions and Tables), were to be achieved by the date of termination. In the event of such payment, the Contractor will have no further liabilities in regard to the IRB requirements of the Contract.
- 28.4 In the event that this Contract is terminated for convenience pursuant to the General Conditions Clause entitled "Default by the Contractor", the Contractor will have no further liabilities. In the event of partial termination of the Contract, the Contractor will be released from the terminated portions of its Commitments and from the provisions of Article 2, IRB Commitments and Responsibilities, as it relates to such terminated portions.
- 28.5 If, during the progress of the Contract, a change in the Work is initiated by Canada which results in the Contractor no longer being able to source from a Canadian Company and, as a consequence, Commitments may not be met, the Contractor must immediately notify the IRB Authority through the Contracting Authority. The Contractor must fully describe the issue, provide all supporting data, including a complete record of attempts to purchase from Canadian sources and Canadian suppliers' responses, together with an analysis of specific technical, commercial or other factors which result in the inability to source from Canada.
- 28.6 The Contractor shall, prior to being entitled to receipt of the final Milestone Payment from Canada following the completion of the Work, provide Canada a guarantee in the form of a letter of credit, covering the amount of monies that would be owing by way of liquidated damages pursuant to the Liquidated Damages Clause should the Contractor not achieve any further IRB Credits after the date of the final Milestone Payment. The letter of credit shall be:
- a. issued by a financial institution which is a member of the Canadian Payment Association;
  - b. in form and substance satisfactory to the Minister;
  - c. solely at the cost of the Contractor;
  - d. abated as set forth below;
  - f. unconditional and irrevocable; and
  - g. subject to the Uniform Customs and Practice for Documentary Credits, as set out in Publication No. 600, July 2007.
- 28.7 The letter of credit shall remain in force until the earliest of:
- a. the achievement of the Commitments; and

- b. six months following the submission of the final IRB Report at which time the letter of credit will be abated in full and will be returned by Canada to the Contractor.
- 28.8 The obligation of the Financial Institution to pay under the letter of credit will be triggered by notice executed by either the Minister or the Deputy Minister of Public Works and Government Services Canada to the Issuing Bank stating that the Contractor is in default under the Contract for failure to achieve the Commitments within the Achievement Period, that Canada has made a demand by Notice for payment of Liquidated Damages in accordance with the Liquidated Damages Clause and that the Contractor has failed to pay Canada Liquidated Damages in accordance with the Liquidated Damages Clause. No other event will trigger payment under the letter of credit.
- 28.9 The Contracting Authority in accordance with this Article, will have the right to holdback, drawback, deduct and set off from and against the monies owing at any time by the Crown to the Contractor, any damages owing under this Contract equal to ten percent (10%) of the shortfall amount.
- 28.10 Nothing in this Article will be interpreted as limiting the rights and remedies which the Contracting Authority may otherwise have in relation to any breach of this Article by the Contractor, including the right to terminate the Contract for default.
- 29. Right of Set-off**
- 29.1 Without restricting any right of set-off given by law, Canada may set-off against any amount payable to the Contractor under the Contract, any amount payable to Canada by the Contractor under the Contract or under any other current contract. Canada may, when making a payment pursuant to the Contract, deduct from the amount payable to the Contractor any such amount payable to Canada by the Contractor which, by virtue of the right of set-off, may be retained by Canada.
- 30. Responsibilities of the Parties**
- 30.1 The Parties to this Contract acknowledge and agree that:
  - 30.1.1 Canada has responsibility for the economy of Canada and, in order to develop its economy, has set in place policies and programs to promote and enhance the development of the Canadian industrial base, including regional industry and small business;
  - 30.1.2 the award of this Contract to the Contractor resulted from a procurement process in which the Contractor committed to fulfil the CCV Commitments set out in Article 2, IRB Commitments and Responsibilities;
  - 30.1.3 it is the responsibility of the Contractor to ensure that it can complete the IRB Transactions and that these are not limited by applicable laws, regulations, policies or standards; and
  - 30.1.4 actual damages which would be sustained by Canada in the event of a breach by the Contractor of the CCV Commitment provisions of this Contract would be commercially impracticable or extremely difficult to compute or ascertain and, therefore, the provisions for Liquidated Damages are agreed to be a fair and reasonable best estimate of such actual damages, and the manner provided herein for the enforcement and collection of Liquidated Damages is agreed to be fair and reasonable.

**31. Dispute Settlement - Resolution of Discrepancies**

- 31.1 In matters pertaining to proposed and/or approved IRB Transactions, in circumstances where the IRB Authority and the Contractor fail to agree after negotiating in good faith, then the decision of the IRB Authority will prevail.
- 31.2 In the event that the Contractor fails to agree to the decision rendered by the IRB Authority, then the Contractor may, within twenty-eight (28) calendar days of receipt of Canada's decision, submit a request to the Contracting Authority, for reconsideration of the matter by the IRB Authority. Such a request will fully describe the issue, all relevant factors and the reasons for the Contractor's disagreement. Industry Canada will, within twenty-eight (28) calendar days of receipt of the request, issue the final determination detailing the reasons for the decision.

**32. Government Organizations**

- 32.1 It is the responsibility of the Contractor to be familiar with Government departments and agencies including the following which are responsible for regional and industrial development: Industry Canada; Western Economic Diversification (WD); Federal Regional Development Organization for Northern Ontario (FedNor); Federal Economic Development Agency for Southern Ontario (FedDev Ontario); Canada Economic Development for Quebec (CED=Q); and Atlantic Canada Opportunities Agency (ACOA).

**33. Contingency/Success Fees**

- 33.1 The Contractor must not make or agree to make any payment to an individual that is contingent on the approval of IRB Credit by the IRB Authority under this Contract, or upon the individual's success in arranging meetings with public office holders.

**34. List of Eligible Parties**

- 34.1 The Eligible Parties to this contract include the companies and coordinates listed below:

(List to be included at contract award)

**35. List of Approved Global Value Chain Platforms**

- 35.1 The platforms approved for GVC work are listed below:

(List to be included at contract award)

**36. Compliance with the *Lobbying Act***

- 36.1 The Contractor and its Eligible Parties each represents and warrants:

- 36.1.1 that it has filed all *Lobbying Act* returns to be filed in respect of persons employed by it who communicate and/or arrange meetings with public office holders as part of their employment duties, and that it will continue to do so;
- 36.1.2 that it has not contracted with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent in any way upon success of such person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;

- 36.1.3 that it will not contract with any person to communicate and/or arrange meetings with public office holders for remuneration that is or would be contingent upon the success of such person arranging meetings with public office holders, or upon the approval and granting of IRB Credit under this Contract;
  - 36.1.4 all persons who are or have been contracted by it to communicate and/or arrange meetings with public office holders in respect to this Contract are in full compliance with the registration and other requirements of the *Lobbying Act*;
  - 36.1.5 it must at all times ensure that any persons contracted to communicate and/or arrange meetings with public office holders in respect of this Contract are in full compliance with the requirements of the *Lobbying Act*.
- 36.2 When submitting each IRB Annual Report, the Contractor and its Eligible Parties must provide the IRB Authority with an update, in a form satisfactory to the IRB Authority, on all representations, warranties and undertakings made herein.



## Appendix 1

### Plans, Transactions and Tables

#### IRB Commitment Tables

Table I - Total of IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
S. Ontario						
Unallocated						
Totals By Period						

Table II - Total Direct IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
S. Ontario						
Unallocated						
Totals By Period						

Table III - Total Indirect IRB Transactions by Period and Region

Region	Period 1	Period 2	Period 3	Period 4	Period 5	Totals by Region
Atlantic						
Quebec						
West						
N. Ontario						
S. Ontario						
Unallocated						
Totals By Period						

Table IV - IRB Transaction Listing and Summary - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs:						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs:						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

Table V - IRB Transaction Listing and Summary - by Region

Transaction Description	Atlantic	Quebec	Southern Ontario	Northern Ontario	West	Unallocated	Totals
Direct IRBs:							
#001							
#002							
#003							
Sub-total - Direct IRBs							
Indirect IRBs:							
#001							
#002							
#003							
Sub-total - Indirect IRBs							
Totals							

Table VI - IRB Transactions Listing and Summary for Small and Medium Business - by Period

Transaction Description	Period 1	Period 2	Period 3	Period 4	Period 5	Totals
Direct IRBs:						
#001						
#002						
#003						
Sub-total - Direct IRBs						
Indirect IRBs:						
#001						
#002						
#003						
Sub-total - Indirect IRBs						
Totals						

Table VII - IRB Transactions Listing and Summary for Small and Medium Business - by Region

Transaction Description	Atlantic	Quebec	Southern Ontario	Northern Ontario	West	Unallocated	Totals
Direct IRBs:							
#001							
#002							
#003							
Sub-total - Direct IRBs							
Indirect IRBs:							
#001							
#002							
#003							
Sub-total - Indirect IRBs							
Totals							

## Appendix 2

### Certificate of Compliance

#### For IRB Reporting Purposes

WHEREAS Her Majesty the Queen, in right of Canada as represented by the Minister of Public Works and Government Services Canada (referred to herein as the Minister) on the \_\_\_\_ day of \_\_\_\_ has entered into contract with \_\_\_\_\_ for the Contract.

AND WHEREAS Such Contract requires that, as evidence of the achievement of Canadian Content Value of Industrial and Regional Benefits Transactions and Commitments, the Contractor shall submit a Certificate of Compliance to that effect to the IRB Authority;

NOW THEREFORE, The Contractor declares and certifies as follows:

- I) The information contained in the documents appended herewith, which applies to the reporting of the IRB Transaction periods is to the best of our knowledge and ability complete, true and correct;
- ii) The information contained in the documents appended herewith is compliant with information contained in Certificates of Compliance submitted to the Contractor by other Eligible Parties;
- iii) The Canadian Content Values shown in documents appended herewith have been determined in accordance with Article 4 (Canadian Content Value) of Annex F to the Contract;

IN WITNESS THEREOF THIS CERTIFICATE OF COMPLIANCE HAS BEEN SIGNED THIS  
\_\_\_\_ DAY OF \_\_\_\_\_ BY THE SENIOR COMPTROLLER WHO IS DULY  
AUTHORIZED IN THAT BEHALF.

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
NAME AND TITLE OF SENIOR COMPTROLLER

AT: \_\_\_\_\_

## **Appendix 3**

### **IRB Transaction Sheet**

#### **1. Detailed IRB Transaction Sheet**

1. IRB Transaction #:

2. IRB Transaction Title (a brief title identifying the nature of the transaction):

3. Indirect, Direct or Unallocated IRB Transaction:

Type of activity:

4. Transaction Value:

Total Transaction Value:

% of Canadian Content Value:

Total Canadian Content Value:

5. Sourcing Region:

Region:

City, Province:

6. Small and Medium Business - is the Recipient a Small and Medium Business:

Yes/No:

7. Company providing IRB (Donor):

Company:

Address:

Contact:

Tel:

Fax:

E-mail:

<p><b>8. Company Receiving IRB (Recipient):</b></p> <p>Company: Address: Contact: Tel: Fax: E-mail:</p>																																																																															
<p><b>9. Industrial Sector and Expertise of the IRB Recipient:</b></p> <p>Industrial Sector:</p> <p>Enhanced Priority Technology List (EPTL): Yes / No</p> <p>If YES: EPTL Version: Sector: Category: Describe and document the activity's relevance to the EPTL List Version 1.0 and its unique and/or transformational nature to existing global product offerings:</p> <p>Description of the expertise of the IRB Recipient:</p>																																																																															
<p><b>10. Description of the IRB Transaction and Canadian Recipient for the IRB Transaction:</b></p>																																																																															
<p><b>11. Quality of IRB:</b> Provide description of the quality of the individual Transaction. For example, increases in employment, increased marketability of recipient company, international exposure, experience with new technology, etc.</p>																																																																															
<p><b>12. Provide and show justification for eligibility as a valid IRB Transaction (Causality, Timing, Incrementality, Eligible Party and CCV):</b></p>																																																																															
<p><b>13. Canadian Government Assistance:</b></p> <p>Does this apply? If so, provide a description of other Canadian Government assistance:</p>																																																																															
<p><b>14. Time Phasing of IRB Transaction:</b></p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th colspan="2" style="text-align: left;">Total Contract Value of the Transaction \$</th> <th colspan="2" style="text-align: left;">Total CCV \$</th> <th colspan="2" style="text-align: left;">CCV % %</th> <th colspan="4" style="text-align: left;">Liquidated Damages: 10%</th> </tr> <tr> <th>Period</th> <th>Pre-Contract</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>Total</th> </tr> <tr> <td>Region</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Atlantic</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Quebec</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>S. Ontario</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										Total Contract Value of the Transaction \$		Total CCV \$		CCV % %		Liquidated Damages: 10%				Period	Pre-Contract	1	2	3	4	5	6	7	Total	Region										Atlantic										Quebec										S. Ontario																			
Total Contract Value of the Transaction \$		Total CCV \$		CCV % %		Liquidated Damages: 10%																																																																									
Period	Pre-Contract	1	2	3	4	5	6	7	Total																																																																						
Region																																																																															
Atlantic																																																																															
Quebec																																																																															
S. Ontario																																																																															



N. Ontario									
Western									
Unallocated									
Total CCV									
Foreign									
Total									

15. Any other comment related to the Transaction:

16. Federal Supply Classification (FSC) Code:

## Appendix 4

### Enhanced Priority Technology List

Version 1.0 (Winter 2011)  
Department of National Defence

Sector	Category	Description
<b>Ships</b>	Defence	Detection capabilities and decision aids
	Signature Management	Detectability reduction
<b>Cyber</b>	Network Monitoring	Detection and tracking of anomalous behaviours that threaten network defence capabilities
	Network Defence	Tools to support dynamic responses to isolate, monitor and defeat cyber intrusions
<b>Aerospace</b>	Arctic and Maritime Domain Awareness	Affordable aerospace-based surveillance and monitoring systems
	Vulnerability Reduction	Precision navigation and timing capabilities that reduce vulnerabilities in current systems such as GPS
<b>Soldier Systems</b>	Power and Energy	Lightweight high-energy portable power sources
	Full Spectrum Protection	Blast and ballistic omni-directional shielding
	Garment Platforms	Integrated multi-function electro-textiles
	Tunable Weapons Systems	Weapons systems which deliver effects across non-lethal and lethal environments
	Situation Awareness	Integrated, portable, lightweight, multifunction, wireless and secure C3 systems

**APPENDIX 5**  
**ANNUAL *IF* ACTIVITY REPORT**  
*(Please complete entire form)*

***IF* Transaction Number:**

***IF* Transaction Title:**

***IF* Investor:**

**SMB Recipient:**

**Date of this report:**

**PART A – FIRST *IF* REPORT**

At a minimum, the Contractor's first Annual *IF* Activity Report must contain and address the items listed below:

**1. Documentation confirming *IF* investment:**

For cash investments, attach the following:

- ☐ A certified copy of the cheque or wire transfer to the SMB
- ☐ Written reconfirmation from the SMB of their anticipated use of the cash investment
- ☐ A copy of the final signed legal agreement (or similar signed document) between the IRB Obligor and the SMB outlining the terms and conditions of the investment.

For in-kind investments, attach the following:

For tangible assets

- ☐ written confirmation that the transfer of the asset has taken place
- ☐ written confirmation from the SMB of its receipt
- ☐ written reconfirmation from the SMB of its expected use.

For intangible assets (licenses, knowledge, marketing and sales)

- ☐ written confirmation from the SMB identifying the contribution, confirming its receipt and reconfirming its expected use.
- ☐ a copy of the final signed legal agreement (or similar signed document) between the *IF* Investor and the SMB, outlining the terms and conditions of the investment, including the final value of the transfer.

**PART B – ENSUING *IF* REPORTS**

Once *IF* activities begin, each of the Contractor's Annual *IF* Activity Reports must, at a minimum, contain and address the items listed below:

**1. Overview of the *IF* investment and how it is to be used:**

<b>2. Current, overall status of the <i>IF</i> project:</b>
<b>3. Confirmation of the SMB's full-time equivalent employees and ownership structure:</b>  Number of Full time equivalent employees _____  Ownership structure _____ _____ _____
<b>4. Confirmation that the <i>IF</i> investment remains with the SMB and is being used as intended:</b>  <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Details:</b> _____ _____
<b>5. Description of the specific activities undertaken during the reporting year:</b>

**Challenges associated with *IF* activities?**

- ☐ Yes  
☐ No

**Details:**

---

---

---

---

**Successes associated with *IF* activities?**

- ☐ Yes  
☐ No

**Details:**

---

---

---

---

**Opportunities associated with *IF* activities?**

- ☐ Yes  
☐ No

**Details:**

---

---

---

---

**6. Description of the evolving industry and market conditions related to the *IF* project:**

**7. Update on the financial status of the Canadian SMB:**

**Attach the most recent audited financial statements (balance sheet, income statement, statement of change in equity, statement of cash flows).**

**8. Status of the business relationship and collaboration between the IRB Obligor and the Canadian SMB:**

**Overview:**

☐ **Successes related to relationship/collaboration?**

☐ **Yes**

☐ **No**

**Details**

☐ **Challenges related to relationship/collaboration?**

☐ **Yes**

☐ **No**

**Details**

☐ **Future opportunities related to relationship/collaboration?**

☐ **Yes**

☐ **No**

**Details:**

☐ **Links to other partners or sectors**

☐ **Yes**

☐ **No**

**Details:**

☐ **Other information**

☐ **Yes**

☐ **No**

**Details:**

**9. Description of the impact of the *IF* project to date:**

**Impact on Innovation**

☐ **High**

☐ **Moderate**

☐ **Low**

**Details:**

**Impact on Competitiveness**

- ☐ **High**
- ☐ **Moderate**
- ☐ **Low**

**Details:**

**Impact on Delivering Broader Benefits to Canada**

- ☐ **Technology**
- ☐ **Economy**
- ☐ **Environment**
- ☐ **Social**
- ☐ **Security**
- ☐ **Other**

**Details:**

**10. Major Changes**

**Changes have occurred to the *IF* project in the following area(s):**

- ☐ **Company bankruptcy**
- ☐ **Changes in SMB ownership or size**
- ☐ **New *IF* activities**
- ☐ **Other \_\_\_\_\_**
- ☐ **Not applicable**



**Details regarding nature and magnitude of change, plus its impact on *IF* project:**

---

---

---

**11. Signatures**

By signing this *IF* Activity Report, the undersigned parties attest that the information included in and attached to this document is complete, accurate and can be relied up on by the IRB Directorate for the purposes of monitoring the *IF* investment. Ultimate responsibility for the completeness, accuracy and reliability of this *IF* Activity Report rests with the Contractor and the *IF* Donor.

**Please see the “Required Signatures” section of the *IF* Applicant Guide.**

**IRB Contractor**

Signature

Date

---

Name (please print)

Title

---

***IF* Donor**

Signature

Date

---

Name (please print)

Title

---

***IF* Recipient (Canadian SMB)**

Signature

Date

---

Name (please print)

Title

---

**Security of Information:**

*Contractor to insert text identifying each page as belonging to them and containing sensitive, commercially confidential information.*

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 8 – Resulting Contract ISS

Annex G

Certificate of Defence Supplies

**CERTIFICATE OF DEFENCE SUPPLIES**

I certify that the items purchased under contract number W8476-06MSMP/L are "Defence Supplies" as defined in the Defence Production Act, pursuant to Tariff Item No. 9982.00.00.

Approved by the PWGSC MPD-L Senior Director:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS


Annex H

Forms


**1. FORMS**

- 1.1 DND 590 (04-2009) - Certificate of Validation**
- 1.2 DND 2515 (12-2008) - Certificate of Translation Accuracy Check**
- 1.3 DND 642 (12-2008) - Certificate of Reproducible Copy**
- 1.4 DND 591 (12-2008) - Certificate of Compliance for Publications**
- 1.5 Certification of Completeness**
- 1.6 CF 1280 Certificate of Inspection and Release**
- 1.7 DND 626 – Task Authorization**
- 1.8 DND 2227 – CFSS Supply Document**
- 1.9 CF 777 – Unsatisfactory Condition Report (UCR)**
- 1.10 PFC Order Form**
- 1.11 PWGSC-TPSGC 1111 – Claim for Progress Payment**

1.1 DND 590 (04-2009) - Certificate of Validation


					
<b>CERTIFICATE OF VALIDATION      CERTIFICAT DE VALIDATION</b>					
CONTRACTOR - ENTREPRENEUR					
ADDRESS - ADRESSE					
CONTRACT NO. - N° DU CONTRAT	SERIAL NO. - N° DE SÉRIE				
ITEM NO. - N° DE L'ARTICLE	MDN NUMBER - N° IDDN				
PUBLICATION TITLE - TITRE DE LA PUBLICATION					
BASIC DATE - DATE DE PUBLICATION	CHANGE NO. AND DATE - N° DE MODIFICATION ET DATE				
REVISION DATE - DATE DE RÉVISION					
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Publications Supervisor/Manager (Contractor)</b></p> <p><b>FOR PUBLICATIONS IN SUPPORT OF EQUIPMENT</b></p> <p>I hereby certify that the content of this manuscript is complete, accurate, adequate and that the content is compatible with the equipment that it supports. I also certify that the equipment, that is supported by this manuscript, can be safely operated, maintained and serviced if the procedures, and instructions that are set out by this manuscript are followed.</p> <p>_____ (Signature)</p> </div> <div style="width: 45%;"> <p><b>Superviseur/gérant des publications (Entrepreneur)</b></p> <p><b>PUBLICATIONS ANNEXES DU MATÉRIEL</b></p> <p>Je certifie que le contenu de ce manuscrit est complet, exact et pleinement approprié au matériel qu'il concerne. Je certifie également que le matériel peut être utilisé et entretenu de façon sûre en suivant les instructions données dans ce manuscrit.</p> <p>_____ (Date)</p> </div> </div>					
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>FOR OTHER PUBLICATIONS:</b></p> <p>I hereby certify that the manuscript content is complete, accurate and adequate in accordance with the terms and conditions of this contract.</p> <p>_____ (Signature)</p> </div> <div style="width: 45%;"> <p><b>AUTRES PUBLICATIONS:</b></p> <p>Je certifie que le contenu de ce manuscrit est complet et exact et qu'il est conforme aux stipulations du contrat.</p> <p>_____ (Date)</p> </div> </div>					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p><b>DND Instruction to the Contractor</b></p> <p>The contractor is authorized to proceed with the preparation of reproducible copy.</p> <p style="text-align: center;"><input type="checkbox"/> <b>or</b> <input type="checkbox"/></p> <p>Corrective action is required and the contractor shall proceed as directed in the attached letter</p> <p><b>DATED</b> DATÉES DU ▶</p> </td> <td style="width: 50%; vertical-align: top;"> <p><b>Instructions du MDN à l'entrepreneur</b></p> <p>L'entrepreneur est autorisé à produire un texte reproductible;</p> <p style="text-align: center;"><input type="checkbox"/> <b>ou</b> <input type="checkbox"/></p> <p>Des corrections sont nécessaires; l'entrepreneur doit suivre les instructions ci-jointes</p> <p><b>FILE</b> DOSSIER ▶</p> </td> </tr> <tr> <td colspan="2"> <p><b>DODS/OSO (OR DESIGNATED REPRESENTATIVE) - DSSD/OSD (OU SON REPRÉSENTANT)</b></p> <p>_____ (Signature)</p> <p style="text-align: right;">_____ (Date)</p> </td> </tr> </table>		<p><b>DND Instruction to the Contractor</b></p> <p>The contractor is authorized to proceed with the preparation of reproducible copy.</p> <p style="text-align: center;"><input type="checkbox"/> <b>or</b> <input type="checkbox"/></p> <p>Corrective action is required and the contractor shall proceed as directed in the attached letter</p> <p><b>DATED</b> DATÉES DU ▶</p>	<p><b>Instructions du MDN à l'entrepreneur</b></p> <p>L'entrepreneur est autorisé à produire un texte reproductible;</p> <p style="text-align: center;"><input type="checkbox"/> <b>ou</b> <input type="checkbox"/></p> <p>Des corrections sont nécessaires; l'entrepreneur doit suivre les instructions ci-jointes</p> <p><b>FILE</b> DOSSIER ▶</p>	<p><b>DODS/OSO (OR DESIGNATED REPRESENTATIVE) - DSSD/OSD (OU SON REPRÉSENTANT)</b></p> <p>_____ (Signature)</p> <p style="text-align: right;">_____ (Date)</p>	
<p><b>DND Instruction to the Contractor</b></p> <p>The contractor is authorized to proceed with the preparation of reproducible copy.</p> <p style="text-align: center;"><input type="checkbox"/> <b>or</b> <input type="checkbox"/></p> <p>Corrective action is required and the contractor shall proceed as directed in the attached letter</p> <p><b>DATED</b> DATÉES DU ▶</p>	<p><b>Instructions du MDN à l'entrepreneur</b></p> <p>L'entrepreneur est autorisé à produire un texte reproductible;</p> <p style="text-align: center;"><input type="checkbox"/> <b>ou</b> <input type="checkbox"/></p> <p>Des corrections sont nécessaires; l'entrepreneur doit suivre les instructions ci-jointes</p> <p><b>FILE</b> DOSSIER ▶</p>				
<p><b>DODS/OSO (OR DESIGNATED REPRESENTATIVE) - DSSD/OSD (OU SON REPRÉSENTANT)</b></p> <p>_____ (Signature)</p> <p style="text-align: right;">_____ (Date)</p>					
<p><small>DND 590 (8-83) 7530-21-896-0627</small></p>					

1.2 DND 2515 (12-2008) - Certificate of Translation Accuracy Check

 National Defence Défense nationale		
<b>CERTIFICATE OF TRANSLATION ACCURACY CHECK</b>		<b>CERTIFICAT DE L'EXACTITUDE DE LA TRADUCTION</b>
CONTRACTOR - ENTREPRENEUR		
ADDRESS - ADRESSE		
CONTRACT NO. - N° DU CONTRAT	SERIAL NO. - N° DE SÉRIE	ITEM NO. - N° DE L'ARTICLE
DND 626 REQUISITION NO. - N° DE RÉQUISITION 626		NOID NUMBER - N° IDON
PUBLICATION TITLE - TITRE DE LA PUBLICATION		
BASIC DATE - DATE DE PUBLICATION	CHANGE NO. AND DATE - N° DE MODIFICATIF ET DATE	REVISION DATE - DATE DE RÉVISION
(Complete in full as applicable)		(Remplir toutes les rubriques appropriées)
CERTIFICATION OF:		CERTIFICATION DE:
French Translation <input type="checkbox"/>		Traduction française <input type="checkbox"/>
English Translation <input type="checkbox"/>		Traduction anglaise <input type="checkbox"/>
Other _____ <input type="checkbox"/> (specify)		Autre _____ <input type="checkbox"/> (préciser)
Publications Supervisor/Manager (Contractor)		Superviseur/gérant des publications (Entrepreneur)
FOR PUBLICATIONS IN SUPPORT OF EQUIPMENT		PUBLICATIONS ANNEXES DU MATÉRIEL
I hereby certify to the technical accuracy and adequacy of the language indicated above version of this manuscript.		Je certifie l'exactitude et le caractère adéquat de la traduction de ce document, dans la version mentionnée ci-dessus.
_____ (Signature)		_____ (Date)
RECEIPT IS ACKNOWLEDGED ON BEHALF OF DND		AU NOM DU MDN NOUS ACCUSONS RÉCEPTION DU CERTIFICAT
_____ (Signature)		_____ (Date)
DPTDS/DSO (OR DESIGNATED REPRESENTATIVE) - DPSDT/AD (OU SON REPRÉSENTANT)		
(Reproduce locally) (À reproduire sur place)		
1996-03-01		




1.3 DND 642 (12-2008) - Certificate of Reproducible Copy

 National Defence / Défense nationale		<b>CERTIFICATE FOR REPRODUCIBLE COPY</b> <b>CERTIFICAT DE TEXTE REPRODUCTIBLE</b>	
CONTRACTOR – ENTREPRENEUR			
ADDRESS – ADRESSE			
CONTRACT NO. – N° DU CONTRAT		SERIAL NO. – N° DE SÉRIE	
ITEM NO. – N° DE L'ARTICLE		NDID NUMBER – N° IDDN	
PUBLICATION TITLE – TITRE DE LA PUBLICATION			
BASIC DATE – DATE DE PUBLICATION	CHANGE DATE – DATE DE MODIFICATION	REVISION DATE – DATE DE RÉVISION	
<b>Publications Supervisor / Manager (Contractor)</b> I hereby certify that the reproducible copy for the publication covered by this certification conforms to the specifications in accordance with the contract, or Standing Offer as applicable, and that all draft changes/corrections as required by the Department, have been included.		<b>Superviseur / gérant des publications (Entrepreneur)</b> Je certifie que le texte reproductible de cette publication est conforme aux stipulations du contrat, ou de l'offre permanente selon le cas, et que les modifications et corrections indiquées par le Ministère ont été apportées.	
_____ (Signature)		_____ (Date)	
<b>DND Instruction to the Contractor</b>  The contractor is authorized to proceed with the production of printed copy.  <div style="text-align: center;">or</div> Corrective action is required and the contractor shall proceed as directed in the attached letter file.		<b>Instructions du MDN à l'entrepreneur</b>  L'entrepreneur est autorisé à produire un texte imprimé.  <div style="text-align: center;">ou</div> Des corrections sont nécessaires; l'entrepreneur doit suivre les instructions ci-jointes.	
<b>DATED</b> <b>DATEES DU</b>		<b>FILE</b> <b>DOSSIER</b>	
DODS DESIGNATED REPRESENTATIVE – DSSD SON REPRÉSENTANT			
_____ (Signature)		_____ (Date)	

DND 642 (3-84) 7530-21-896-3055

1.4 DND 591 (12-2008) - Certificate of Compliance for Publications

 <b>National Defence</b> <b>Défense nationale</b>	
<b>CERTIFICATE OF COMPLIANCE</b> <b>CERTIFICAT DE CONFORMITÉ</b>	
CONTRACTOR - ENTREPRENEUR	
ADDRESS - ADRESSE	
CONTRACT NO. - N° DU CONTRAT	SERIAL NO. - N° DE SÉRIE
ITEM NO. - N° DE L'ARTICLE	NDND NUMBER - N° DDN
PUBLICATION TITLE - TITRE DE LA PUBLICATION	
QUANTITY - QUANTITÉ	BASIC DATE - DATE DE PUBLICATION
	CHANGE DATE - DATE DE MODIFICATION
	REVISION DATE - DATE DE RÉVISION

(Complete in full as applicable)

**Publications Supervisor/Manager (Contractor)**

I hereby certify that the publication covered by this certification has been inspected, that it conforms to the specifications in accordance with the conditions of the contract, that it is complete in accordance with the approved publication plan, and that it contains only information previously validated by the contractor and approved by the Department.

\_\_\_\_\_  
(Signature)

(Remplir toutes les rubriques appropriées)

**Superviseur/gérant des publications (Entrepreneur)**

Je certifie que cette publication a fait l'objet d'une inspection et qu'elle est conforme aux stipulations du contrat, qu'elle est complète conformément au plan de publication autorisé et que les renseignements qu'elle contient ont d'abord été validés par l'entrepreneur et approuvés par le Ministère.

\_\_\_\_\_  
(Date)

<p><b>DND Instruction to the Contractor</b></p> <p>The contractor is authorized to proceed with delivery of the bulk quantity to the consignee.</p> <p style="text-align: center;"><input type="checkbox"/> or</p> <p>Corrective action is required and the contractor shall proceed as directed in the attached letter file</p> <p><b>DATED</b> DATÉES DU ►</p> <p>DDSD/DSO (OR DESIGNATED REPRESENTATIVE) - DSSD/OSD (OU SON REPRÉSENTANT)</p> <p style="text-align: center;">_____ (Signature)</p>	<p><b>Instructions du MDN à l'entrepreneur</b></p> <p>L'entrepreneur est autorisé à livrer le nombre d'exemplaires de la publication indiqué ci-dessus au destinataire.</p> <p style="text-align: center;"><input type="checkbox"/> ou</p> <p>Des corrections sont nécessaires; l'entrepreneur doit suivre les instructions ci-jointes</p> <p><b>FILE</b> DOSSIER ►</p> <p style="text-align: center;">_____ (Date)</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

DND 591 (8-83) 7530-21-896-0628

## 1.5 Certification of Completeness

<b>Certificate of Completeness</b>				
Contractor – Entrepreneur				
Address – Adresse				
Contract No. – No du Contrat			Serial No. – No de série	
Item No. – No. de l'article				
Deliverable's Name – Nom du livrable				
Deliverable's Date – Date du livrable			DND review date – Date de révision du MDN	
<b>Contractor</b>			<b>Entrepreneur</b>	
I hereby certify that the content of this deliverable is complete, accurate, and adequate and that the content is in accordance with the Contract.			Je certifie que le contenu de ce livrable est complet, exact et pleinement approprié et que le contenu est conforme aux stipulations du contrat.	
Signature			Date	
<b>National Defence</b>			<b>Défense nationale</b>	
Acknowledged and accepted by DND			Au nom du MDN nous accusons réception et acceptation	
Signature			Date	

CF 1280 - CERTIFICATE OF INSPECTION AND RELEASE/CERTIFICAT D'INSPECTION ET DE SORTIE							
1. PURCHASER - ACHETEUR		2. PURCHASE ORDER or REFERENCE FILE BON DE COMMANDE ou N° DE DOSSIER		3. GOVERNMENT CONTRACT NUMBER N° DE DOSSIER DU GOUVERNEMENT		4. NO OF PAGES N° DE PAGES	
5. CONTRACTOR - ENTREPRENEUR		6. SHIPPED FROM (CONSIGNOR) LIEU D'EXPÉDITION (EXPÉDITEUR)		7. SHIPPED TO (CONSIGNEE) DESTINATION (DESTINATAIRE)		8. SHIPMENT No. N° DE L'ENVOI	
Contract Item No. N° D'Article du Contrat  (9)	NATO STOCK NUMBER N° NOMENCLATURE OTAN  (10)	ITEM IDENTIFICATION IDENTIFICATION DE L'ARTICLE  (11)	SERIAL NUMBER OR SIZE N° DE SÉRIE OU TAILLE  (12)	QUANTITY QUANTITÉ  (13)	PACKAGE NUMBER N° DE L'EMBALLAGE  (14)	Undelivered Balance QUANTITÉ NON LIVRÉE  (15)	QUANTITY RECEIVED QUANTITÉ REÇUE  (16)
17. CONTRACTOR CERTIFICATION ATTESTATION DE L'ENTREPRENEUR			18. GOVERNMENT QUALITY ASSURANCE ASSURANCE OFFICIELLE DE LA QUALITÉ			19. ACCEPTANCE ACCEPTATION	
<p>I certify that the items listed above have been inspected and tested and conform to all specifications and requirements detailed in the contract or purchase order. J'atteste que les articles inscrits ci-haut ont été inspectés et mis à l'essai et qu'ils sont en tous points conformes aux spécifications et exigences du contrat ou du bon de commande.</p>			<p>I certify that Government Quality Assurance has been performed Je certifie que l'assurance officielle de la qualité a été effectuée</p>			<p>Quantities shown in block (16) were received in apparent good condition. Les quantités indiquées à la case (16) ont été reçues, et les articles semblaient être en bon état.</p>	
SIGNATURE (Contractor QC - CQ de l'entrepreneur)		DATE	SIGNATURE (QAR - RAQ)		DATE	Receiving Officer Agent Réceptionnaire	DATE

CF 1280 - CERTIFICATE OF INSPECTION AND RELEASE/CERTIFICAT D'INSPECTION ET DE SORTIE

**Certificate of Release,  
Inspection and Acceptance  
CF 1280**

**USE**

The Certificate of Release, Inspection and Acceptance CF 1280 constitutes:

- Certification by the supplier that all items listed therein have been inspected and tested and conform to the specifications and requirements detailed in the contract or purchase order.
- Certification by the Quality Assurance Representative when applicable; that Government Quality Assurance has been performed during the contract or purchase order.
- Receipt for goods at destination and once signed by the receiving authority; the payment process can be initiated.

**PREPARATION AND DISTRIBUTION**

It is the supplier's responsibility to prepare and distribute the CF 1280. However, whenever STANAG 4107 applies, the QAR must forward one copy to the delegator.

**Note 1:** All entries other than signatures must be either typewritten or printed.

- 2: When using more than one CF 1280 per shipment per contract, complete all blocks but only sign Block 17 and have Block 18 signed (when applicable) on the last form.

**Block 1:** Name of the department, country or organization actually ordering the materiel. In the case of PWGSC contracts, they are the purchaser referenced in the contract.

**Block 2:** PWGSC file or supplier purchase order number, as appropriate. For contracts from other North Atlantic Treaty Organisation (NATO) nations, enter date of contract.

**Block 3:** Contract serial number or, if a purchase order, enter the prime contract number.

**Block 4:** Consecutively number the forms used to cover each shipment and enter the total number of pages, (e.g. page 1 of 1, 2 of 6, etc).

**Block 5:** Prime contractor's or sub-contractor's name and complete address.

**Block 6:** Consignor's name; also complete shipping address if different than Block 5.

**Block 7:** Consignee's name and address as contained in the shipping instructions.

**Block 8:** Number for each shipment made under the stated contract commencing at 001.

**Note:** For more than one shipment under the same contract; the first shipment would be 001 and the final shipment would have the letter F at the end (e.g. 002F).

**Block 9:** Line item number as shown in the contract or purchase order.

**Block 10:** NATO or national stock number as indicated in the contract.

**Block 11:** Manufacturer's part, model, type, drawing or catalogue number or short description of the item. The brief description is mandatory for clothing or footwear contracts.

**Block 12:** Item serial, size, lot/batch numbers as applicable.

**Note:** Size numbers must be included to identify clothing or footwear. If not applicable enter [N/A].

**Block 13:** Quantity being shipped using the unit of measure as indicated in the contract.

**Block 14:** Identify package number in which the line item can be located.

**Block 15:** Balance of items, if any, to be shipped at a later date as per address in Block 7. If not applicable enter [N/A].

**Block 16:** Leave blank; for use by the receiving authority.

**Block 17:** Authorized supplier quality assurance representative. See Note 2 under "preparation and distribution".

**Block 18:** Representative responsible for performing Government Quality Assurance (when applicable). See Note 2 under "preparation and distribution".

**Block 19:** Leave blank; for use by the receiving authority.

CF 1280 (11-2011) - Instructions

**Certificat de libération,  
d'inspection et de réception  
CF 1280**

**OBJET**

Le Certificat de libération, d'inspection et de réception CF 1280 constitue:

- Certificat de libération du fournisseur pour attester que les articles énumérés ont tous été soumis à une inspection et à des essais et sont jugés conformes aux spécifications et aux exigences du contrat ou de la commande.
- Certification par le Représentant de l'Assurance de la Qualité lorsque prescrit; que l'assurance officielle de la qualité a été effectuée pour le contrat ou pour la commande.
- Certificat de réception à la destination par l'autorité de réception; et une fois signé, le processus de paiement peut être lancé.

**PRÉPARATION ET DISTRIBUTION**

Il revient au fournisseur de remplir et de distribuer le formulaire CF 1280. Toutefois, si les dispositions du STANAG 4107 s'appliquent, le RAQ doit envoyer un exemplaire au délégant.

**Nota 1:** Toutes les inscriptions autres que les signatures doivent être dactylographiées ou écrites en lettres moulées.

- 2: Si plusieurs formulaires CF 1280 sont utilisés pour le même envoi par contrat, remplir tout les cases mais seulement signé case 17 et faire signé (au besoin) case 18 sur le dernier formulaire.

**Case 1:** Nom du ministère, du pays ou de l'organisme qui a commandé le matériel. S'il s'agit d'un contrat de TPSGC, indiquer le nom du client qui apparaît sur le contrat.

**Case 2:** Numéro de dossier de TPSGC ou de la commande du fournisseur, selon le cas. Pour contrats envoyé à un autre pays membre de l'OTAN, indiquer la date du contrat.

**Case 3:** Numéro de série du contrat ou, s'il s'agit d'une commande, écrire le numéro du contrat principal.

**Case 4:** Numéroté dans l'ordre de formulaires utilisés et indiquer le nombre total de pages pour chaque envoi (1 de 1 ou 2 de 6, par exemple).

**Case 5:** Nom et adresse de l'entrepreneur principal ou du sous-traitant.

**Case 6:** Nom de l'expéditeur; indiquer également l'adresse d'expédition si elle diffère de l'adresse donnée à la case 5.

**Case 7:** Nom et adresse du destinataire qui figure dans les instructions d'expédition.

**Case 8:** Numéroté l'ordre d'envoi effectué en vertu du contrat, à partir de 001.

**Nota:** Si un contrat prévoit plusieurs envois, les numéroté de la façon suivante: premier envoi 001 et le dernier envoi doit contenir la lettre <F> à la fin numéro (e.g. 002F).

**Case 9:** Numéro de l'article qui figure dans le contrat ou dans la commande.

**Case 10:** Numéro de nomenclature OTAN ou numéro de nomenclature du pays qui figure dans le contrat.

**Case 11:** Numéro de pièce, de modèle, de type, de dessin ou de catalogue du fabricant ou brève description de l'article. Cette brève description est obligatoire dans le cas des vêtements et des chaussures.

**Case 12:** Numéro de série, de taille ou de lot de l'article.

**Nota:** Les numéros de taille doivent être inscrits si le contrat est pour des vêtements ou des chaussures. Si cette mention ne s'applique, inscrire [néant].

**Case 13:** Quantité expédiée avec l'unité de mesure qui s'applique dans le contrat.

**Case 14:** Numéro de l'emballage où se trouve l'article.

**Case 15:** Articles à livrer à une date ultérieure, à la destination prévue à la case 7. Si tous les articles ont été livrés à cette destination, inscrire (aucun).

**Case 16:** Laisser en blanc; cette case est réservée pour l'autorité de réception.

**Case 17:** Signature d'un représentant autorisé du service de la qualité du fournisseur. Si plusieurs pages sont utilisées, voir Nota 2 dans les « préparation et distribution »

**Case 18:** Signature du RAQ responsable de l'assurance officiel de la qualité, s'il y a lieu. Si plusieurs pages sont utilisées, voir Nota 2 dans les « préparation et distribution »

**Case 19:** Laisser en blanc; cette case est réservée à l'autorité de réception.

Page 2/2

[illegible]

## 1.8 DND 2227 – CFSS Supply Document

National Défense Défense nationale		<b>CFSS SUPPLY DOCUMENT</b> <b>DOCUMENT D'APPROVISIONNEMENT DU SAFC</b>		Customer Control No. N° de contrôle du client  CFSS Requisition No. N° de demande du SAFC	
Transaction Type – Type de Transaction <input type="checkbox"/> Requisition Demande <input type="checkbox"/> Return Retour <input type="checkbox"/> Rotation Échange <input type="checkbox"/> Loan Prêt <input type="checkbox"/> Adjustment Rajustement <input type="checkbox"/> Transfer Transfert <input type="checkbox"/> Services					
Requested by SCA Demande par le CCA		Delivery Location – Site de livraison		Work Order / Project / Activity Commande de travail / Projet / Activité	
Cost Centre & Expense Element / Internal Order Number Centre des coûts & élément de dépense / Numéro d'ordre interne CC _____ IO _____			Date Required Date requise	Priority – Priorité	Return Date (Loans) Date de retour (prêts)
Serial Number(s) (for returns or transfers) Numéro(s) de série (pour les retours ou les transferts)			For Transfer Between SCAs indicate – Pour les transferts entre CCA, indiquer Account From – Compte d'origine    Account To – Compte de destination		
Originator – Auteur		Telephone – Téléphone	Date	Signature	Signature
				Print Name – Imprimer le nom	Print Name – Imprimer le nom
<b>Special Instructions – Directives spéciales</b>					
Certified pursuant to Section 32 of the Financial Administration Act (if required) Certifié conforme à l'article 32 de la Loi sur l'administration financière (si nécessaire)					
				_____ Signature	
<b>Item – Article 1</b>					
Qty – Qte	UOM – UM	Type (A, C, D, I, M, Part)	Stock Code / Part Number – Code de matériel / Numéro de pièce		Description
Category Catégorie	ERN – NIM	EAC – CUM	APL Ref & Seq Item No – Réf d'APL et N° d'article de séquence		Location Code – Code d'emplacement du contenant
MA Doc / Ent – Doc d'AM / Dotation			In Lieu / Sub Acceptable En remplacement de / Substitut acceptable <input type="checkbox"/> Yes Oui <input type="checkbox"/> No Non		Date Usable Up To Date de vie utile
Item 1 Received By: – Article 1 Reçu Par:			Print Name – Imprimer le nom	Signature	Date rec'd – Date reçu
<b>Item – Article 2</b>					
Qty – Qte	UOM – UM	Type (A, C, D, I, M, Part)	Stock Code / Part Number – Code de matériel / Numéro de pièce		Description
Category Catégorie	ERN – NIM	EAC – CUM	APL Ref & Seq Item No – Réf d'APL et N° d'article de séquence		Location Code – Code d'emplacement du contenant
MA Doc / Ent – Doc d'AM / Dotation			In Lieu / Sub Acceptable En remplacement de / Substitut acceptable <input type="checkbox"/> Yes Oui <input type="checkbox"/> No Non		Date Usable Up To Date de vie utile
Item 2 Received By: – Article 2 Reçu Par:			Print Name – Imprimer le nom	Signature	Date rec'd – Date reçu
Picked By: – Ramassé Par:			Issued By: – Distribué Par:		
DND 2227 (05-2009) 7530-21-914-9225            Design: Forms Management 613-993-4050 – Conception: Gestion des formulaires 613-993-4062					

**1.9 CF 777 – Unsatisfactory Condition Report (UCR)**

UNSATISFACTORY CONDITION REPORT (UCR) - RAPPORT D'ÉTAT NON SATISFAISANT (RENS)					
1. PRIORITY: PRIORITÉ:	URGENT <input type="checkbox"/>	ROUTINE <input type="checkbox"/>	INFO ONLY INFORMATION SEULEMENT <input type="checkbox"/>	For preparation refer to: Pour préparer référer:	C-02-015-001/AG-000
2. UNIT/BASE/WING/SHIP UNITÉ/BASE/ESCADRE/N AVIRE	3. UCR REF No. N° DE RÉFÉRENCE DU ENS		4. DATE SUBMITTED DATE DU RAPPORT	5. MESSAGE REF. (IF APPLICABLE) RÉFÉRENCE A UN MESSAGE (LE CAS ÉCHÉANT)	
6. IDENTIFICATION DATA/DONNÉES D'IDENTIFICATION		FAILED ITEM/ARTICLE DÉFECTUEUX		NEXT HIGHER ASSEMBLY COMPOSANT IMMÉDIATEMENT SUPÉRIEUR	
7. NOMENCLATURE/ NAME-NOM					
8. NATO STOCK NUMBER N° DE NOMENCLATURE OTAN					
9. PART NO./CIRCUIT DESIGNATION N° DE PIÈCE/NOM DU CIRCUIT					
10. TYPE OR MODEL TYPE OU MODÈLE					
11. SERIAL NUMBER N° DE SÉRIE					
12. MANUFACTURER AND DATE FABRICANT ET DATE			DATE		DATE
13. PLAN/DRAWING NUMBER N° DE PLAN/DE DESSIN					
14. WORK UNIT CODE/GUIDE LIST NO. CODE DE TRAVAIL/LISTE N°					
15. HOURS, MILEAGE, MONTHS, EFC OR ROUNDS FIRED SINCE: NOMBRE D'HEURES, DE MILLES, DE MOIS, DE CHARGES MAXIMALES ÉQUIVALENTES OU DE COUPS TIRÉS DEPUIS:		NEW/FABRICATION	REBUILD/R&O-RÉFLECTION	PLANNED MAINT/ENTRETIEN PÉRIODIQUE	
16. LAST REBUILD/R&O BY DERNIÈRE RÉFECTION PAR			DATE		
17. TYPE OF LAST PLANNED/PREVENTIVE MAINT. GENRE DU DERNIER ENTRETIEN PÉRIODIQUE/PRÉVENTIF		INSPECTION/SCHEDULE NO. INSPECTION/CALENDRIER N°		CARD/ITEM NO. CARTE/ARTICLE N°	ROUTINE COURANT
18. CONTRACT NO. (IF APPLICABLE) N° DE CONTRAT (SI DISPONIBLE)		19. RECEIVED FROM-PROVENANCE		20. SD/IV NO. N° DU BON DE COMMANDE	21. BATCH/LOT No. N° DE LOT
22. INSTALLED ON-ARTICLE INSTALLÉ SUR			23. EQUIP. IDENT./APPL. CODE CODE D'IDENTITÉ/APPL. D'ÉQUIP		24. CRF/SERIAL NO. MATRICULE FC/ N° DEÉRIE
AIRCRAFT AÉRONEF <input type="checkbox"/>	SHIP NAVIRE <input type="checkbox"/>	VEHICLE VÉHICULE <input type="checkbox"/>	SITE PLACE <input type="checkbox"/>		



Medium Support Vehicle System  
Standard Military Pattern  
Forms

Annex H to  
Part 8 to  
Request For Proposal W8476-06-MSMP/L

25. SUBJECT OF REPORT-OBJET DU RAPPORT:				
26. FAILURE DATE/DÉFECTOUSITÉ		27. PERSON-HOURS TO REPAIR HEURES-PERSONNES POUR RÉPARER		28. NO. OF PREVIOUS FAILURES (LOCAL) N° DE DÉFECTUOSITÉS ANTÉRIEURES (LOCALES)
29. DISPOSITION-MESURE PRISE  ENCLOSED/ <input type="checkbox"/> ANNEXÉ    HOLDING FOR <input type="checkbox"/> INVESTIGATION FOR DISPOSAL /SERVICE / POUR AFFECTATION RETENU POUR ENQUÊTE    RETURNED TO SUPPLY <input type="checkbox"/> FOR DISPOSAL/ RENVOYÉ AU DÉPÔT    RETURNED <input type="checkbox"/> TO SERVICE/ REMIS EN SERVICE			30. ENCLOSURES-ANNEXES  PHOTOS <input type="checkbox"/> PHOTOGRAPHIES    DRAWINGS <input type="checkbox"/> DESSINS    OTHER <input type="checkbox"/> AUTRE	
31. AMPLIFYING DETAILS: (ORIGINATOR) INCLUDE COMPLETE DETAILS SUCH AS (A) DESCRIPTION OF DIFFICULTY (B) DESCRIPTION OF FAILED ITEM (C) ENVIRONMENTAL FACTORS (D) EVENTS PRIOR TO DIFFICULTY (E) PROBABLE CAUSE (F) SECONDARY EFFECTS (G) ACTION TAKEN (H) MOD STATUS (J) RECOMMENDATIONS.			31. DÉTAILS COMPLÉMENTS: (AUTEUR) DONNER DES DÉTAILS COMPLETS TELS QUE (A) EXPOSÉ DU PROBLÈME (B) DESCRIPTION DE L'ARTICLE DÉFECTUEUX (C) FACTEURS D'ENVIRONNEMENT (D) ÉVÉNEMENTS QUI ONT PRÉCÉDÉS LA DÉFECTUOSITÉ (E) CAUSE PROBABLE (F) EFFETS SECONDAIRES (G) MESURES PRISES (H) MODIFICATIONS APPORTÉES (J) RECOMMANDATIONS.	
ORIGINATOR'S NAME-NOM DE L'AUTEUR		RANK-GRADE	APPT.-FONCTION	TEL. NO.-N° DE TÉL
DATE				
32. <b>SUBSTANTIATION: (DEPARTMENTAL SPECIALIST)</b> INCLUDE RECOMMENDATIONS. INCLUDE DETAILS SUCH AS (A) RESULTS OF RESEARCH (B) EFFECTS ON PERFORMANCE OF EQUIPMENT (C) EFFECTS ON SUB SYSTEMS (D) DOES REPORT WARRANT ACTION? IF SO, INCLUDE RECOMMENDATIONS.			32. <b>JUSTIFICATION/APPROBATION: (AUTORITÉ SUPÉRIEURE SPÉCIALISTE)</b> INCLURE DÉTAILS SUR (A) RÉSULTATS DES RECHERCHES (B) EFFETS SUR LE FONCTIONNEMENT DE L'ÉQUIPMENT (C) EFFETS SUR LES SOUS-COMPOSANTS (D) DES MESURES ULTÉRIEURES SONT-ELLES JUSTIFIÉES, INCLURE LES RECOMMANDATIONS.	
SIGNATURE:				
APPROVAL: (SENIOR SPECIALIST AUTHORITY)				
JUSTIFICATION: (AUTORITÉ SUPÉRIEURE SPÉCIALISTE)		RANK-GRADE	APPT.-FONCTION	TEL. NO.-N° DE TÉL
				DATE

<p>33. <b>TECHNICAL AUTHORITY (TA) RESPONSE:</b> INCLUDE DETAILS OF ACTION TAKEN TO RESOLVE UNSATISFACTORY CONDITION AND APPROPRIATE DETAILS OF ARRANGEMENTS/AGREEMENTS WITH OCI's</p>		<p>33. <b>REPONSE D'ATORITE FUNCIONELLE:</b> AJOUTER LES DÉTAILS DES MEASURES PRISES POUR RECTIFIER L'ETAT NON SATISFAISANT ET LES DÉTAILS APROPRIES CONCERNANT LES ENTENTES AVEC LES BUREAUX DE RESPONSABILITÉ AUXILIARE (BRA).</p>		
TA NAME/NOM DE AF	RANK-GRADE	APPT.-FONCTION	TEL. NO.-N° DE TÉL	DATE
CF 777 (5-99)		FORM OPI: DBCM 2-7 FORMULAIR BPR: DCOD 2-7		

1.10 PFC Order Form

National Défense Defence nationale				PFC Order Form Formulaire de commande de CP				Page 1/2	
To: A				Originator - Initiator PFC Contract No.: No du Contrat		Order No. N° de la commande			
				Contract - Référence commande W8476		Previous Value - Valeur précédente W8476-XXXXXXXXXX		Order date - Date de la commande 14 M DU	
Vendor No. - N° du fournisseur	Vendor Tel No N° du tél. du fournisseur	Vendor Fax No N° de téléc. du fournisseur	Fed No. - N° du Tél.	Fax No. - N° de téléc.	Inc Date - Aug Date	Revised value - Montant révisé	Date received Date reçue	Date received Date reçue	
Item No Article n°	Description				GSIN NBS	U of P U d'A	Quantity Quantité	Unit Price Prix unitaire	Ext Price Prix prévu
<p><b>To the supplier:</b> Deliveries of the goods and/or services described above are to be supplied in accordance with the terms and conditions contained in the contract referenced above. GST/IDT extra! Must be shown separately on invoice. Pst exempt.</p> <p><b>À l'entrepreneur:</b> Les biens ou services identifiés ci-dessus doivent être fournis en conformité des termes du contrat mentionné ci-haut. Supplément 175/176 : Doit être indiqué séparément sur la facture. TVA non-applicable.</p> <p><b>Delivery Address - Adresse de livraison</b> (Unless specified otherwise above - Saut indication contraire ci-haut)</p> <p><b>Invoice Address - Adresse de facturation</b> Invoices - Original and two copies are to be made out and sent to Factures - Original et deux copies à</p> <p><b>FOB DESTINATION</b> Terms of payment - Modalités de paiement <b>Payable immediately Due net</b></p> <p><b>Procurement Authority</b>      <b>Autorité des achats</b></p> <p><b>Date</b></p>									

Contractor's Name and Address Nom et adresse de l'entrepreneur		Claim No. N° de la commande	Date	Contract Price - Prix contractuel	
		File No. - N° du dossier	Contract Serial No. N° de série du contrat		
Contractor's Procurement Business Number (PBN) Numéro d'entreprise-approvisionnement (NEA) de l'entrepreneur		Financial Code(s) - Code(s) financier(s)			
Contractor's Report of Work Progress (If needed, use additional sheets) Compte rendu de l'avancement des travaux par l'entrepreneur (si nécessaire, utiliser des feuilles supplémentaires)					
Period of Work Covered by the Claim Période des travaux visée par la demande ▶		Current Claim Demande courante		Previous Claims Demandes précédentes	
Description: (Expenditures must be claimed in accordance with the basis and/or method of payment of the contract) Description : (Les dépenses doivent être réclamées conformément à la base de paiement ou à la méthode de paiement du contrat).		(A)	Tax Rate Taux de taxe	(B)	Tax Rate Taux de taxe
			%		%
			%		%
			%		%
			%		%
			%		%
			%		%
			%		%
			%		%
			%		%
			%		%
			%		%
			%		%
			%		%
			%		%
Contractor's GST No. N° de TPS de l'entrepreneur		Subtotal Sous-total			
Goods and Services Tax (GST) / Harmonized Sales Tax (HST) Taxe sur les produits et services (TPS) / Taxe de vente harmonisée (TVH)					
Total					
Less holdbacks on expenditures only (GST/HST excluded) Moins les retenues sur les dépenses uniquement (TPS/TVH en sus)					
Total Amount of Claim (including GST/HST Included) Montant total de la demande (TPS/TVH incluse)					
Percentage of the work completed Pourcentage des travaux achevés %		Current Claim Demande courante ▶		Amount due Montant dû	

# **MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**

## **STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06MSMP/L

Part 8 – Resulting Contract ISS

Annex I

2035 (2013/04/25) General Conditions  
Higher Complexity – Services

This Annex includes the General Conditions that form part of the Contract: 2035 (2013-04-25),  
General Conditions – Higher Complexity – Services.

This Annex must only be read in conjunction with the Terms and Conditions of the Contract.

## **2035 (2013-04-25) General Conditions - Higher Complexity – Services**

### **Public Works and Government Services Canada**

- 01 Interpretation
- 02 Standard Clauses and Conditions
- 03 Powers of Canada
- 04 Status of the Contractor
- 05 Conduct of the Work
- 06 Subcontracts
- 07 Specifications
- 08 Replacement of Specific Individuals
- 09 Time of the Essence
- 10 Excusable Delay
- 11 Inspection and Acceptance of the Work
- 12 Invoice Submission
- 13 Taxes
- 14 Transportation Costs
- 15 Transportation Carriers' Liability
- 16 Payment Period
- 17 Interest on Overdue Accounts
- 18 Compliance with Applicable Laws
- 19 Ownership
- 20 Copyright
- 21 Translation of Documentation
- 22 Confidentiality
- 23 Government Property
- 24 Liability
- 25 Intellectual Property Infringement and Royalties
- 26 Amendment and Waivers
- 27 Assignment
- 28 Suspension of the Work
- 29 Default by the Contractor
- 30 Termination for Convenience
- 31 Accounts and Audit
- 32 Right of Set-off
- 33 Notice
- 34 Conflict of Interest and Values and Ethics Codes for the Public Service
- 35 No Bribe or Conflict
- 36 Survival
- 37 Severability
- 38 Successors and Assigns
- 39 Contingency Fees
- 40 International Sanctions
- 41 Code of Conduct and Certifications - Contract
- 42 Harassment in the Workplace
- 43 Entire Agreement
- 44 Access to Information

## 2035 01 (2013-04-25) Interpretation

In the Contract, unless the context otherwise requires:

"Applicable Taxes" means the Goods and Services Tax (GST), the Harmonized Sales Tax (HST), and any provincial tax, by law, payable by Canada such as, the Quebec Sales Tax (QST) as of April 1, 2013;

"Articles of Agreement" means the clauses and conditions incorporated in full text or incorporated by reference from the Standard Acquisition Clauses and Conditions Manual to form the body of the Contract; it does not include these general conditions, any supplemental general conditions, annexes, the Contractor's bid or any other document;

"Canada", "Crown", "Her Majesty" or "the Government" means Her Majesty the Queen in right of Canada as represented by the Minister of Public Works and Government Services and any other person duly authorized to act on behalf of that minister or, if applicable, an appropriate minister to whom the Minister of Public Works and Government Services has delegated his or her powers, duties or functions and any other person duly authorized to act on behalf of that minister;

"Contract" means the Articles of Agreement, these general conditions, any supplemental general conditions, annexes and any other document specified or referred to as forming part of the Contract, all as amended by agreement of the Parties from time to time;

"Contracting Authority" means the person designated by that title in the Contract, or by notice to the Contractor, to act as Canada's representative to manage the Contract;

"Contractor" means the person, entity or entities named in the Contract to supply goods, services or both to Canada;

"Contract Price" means the amount stated in the Contract to be payable to the Contractor for the Work, exclusive of Applicable Taxes;

"Cost" means cost determined according to Contract Cost Principles 1031-2 as revised to the date of the bid solicitation or, if there was no bid solicitation, the date of the Contract;

"Government Property" means anything supplied to the Contractor by or on behalf of Canada for the purposes of performing the Contract and anything acquired by the Contractor in any manner in connection with the Work, the cost of which is paid by Canada under the Contract;

"Party" means Canada, the Contractor, or any other signatory to the Contract and "Parties" means all of them;

"Specifications" means the description of the essential, functional or technical requirements of the Work in the Contract, including the procedures for determining whether the requirements have been met;

"Total Estimated Cost", "Revised Estimated Cost", "Increase (Decrease)" on Page 1 of the Contract or Contract Amendment means an amount used for internal administrative purposes only that comprises the Contract Price, or the revised Contract Price, or the amount that would increase or decrease the Contract Price and the Applicable Taxes as evaluated by the Contracting Authority, and does not constitute tax advice on the part of Canada;

"Work" means all the activities, services, goods, equipment, matters and things required to be done, delivered or performed by the Contractor under the Contract.

## 2035 02 (2008-05-12) Standard Clauses and Conditions

Pursuant to the [Department of Public Works and Government Services Act](#), S.C. 1996, c. 16, the clauses and conditions identified by number, date and title in the Contract are incorporated by reference and form part of the Contract as though expressly set out in the Contract.

## 2035 03 (2008-05-12) Powers of Canada

All rights, remedies, powers and discretions granted or acquired by Canada under the Contract or by law are cumulative, not exclusive.

## 2035 04 (2008-05-12) Status of the Contractor

The Contractor is an independent contractor engaged by Canada to perform the Work. Nothing in the Contract is intended to create a partnership, a joint venture or an agency between Canada and the other Party or Parties. The Contractor must not represent itself as an agent or representative of Canada to anyone. Neither the Contractor nor any of its personnel is engaged as an employee or agent of Canada. The Contractor is responsible for all deductions and remittances required by law in relation to its employees.

## 2035 05 (2012-03-02) Conduct of the Work

1. The Contractor represents and warrants that:
  - a. it is competent to perform the Work;
  - b. it has everything necessary to perform the Work, including the resources, facilities, labour, technology, equipment, and materials; and
  - c. it has the necessary qualifications, including knowledge, skill, know-how and experience, and the ability to use them effectively to perform the Work.
2. The Contractor must:
  - a. perform the Work diligently and efficiently;
  - b. except for Government Property, supply everything necessary to perform the Work;
  - c. use, as a minimum, quality assurance procedures, inspections and controls generally used and recognized by the industry to ensure the degree of quality required by the Contract;
  - d. select and employ a sufficient number of qualified people;
  - e. perform the Work in accordance with standards of quality acceptable to Canada and in full conformity with the Specifications and all the requirements of the Contract;
  - f. provide effective and efficient supervision to ensure that the quality of workmanship meets the requirements of the Contract.
3. The Work must not be performed by any person who, in the opinion of Canada, is incompetent, unsuitable or has conducted himself/herself improperly.
4. All services rendered under the Contract must, at the time of acceptance, be free from defects in workmanship and conform to the requirements of the Contract. If the Contractor is required to correct or replace the Work or any part of the Work, it will be at no cost to Canada.
5. Canada's facilities, equipment and personnel are not available to the Contractor to perform the Work unless the Contract specifically provides for it. The Contractor is responsible for advising the Contracting Authority in advance if it requires access to Canada's facilities, equipment or personnel to perform the Work. The Contractor must comply and ensure that its



employees and subcontractors comply with all security measures, standing orders, policies or other rules in force at the site where the Work is performed.

6. Unless the Contracting Authority orders the Contractor to suspend the Work or part of the Work pursuant to section 28, the Contractor must not stop or suspend the Work or part of the Work pending the settlement of any dispute between the Parties about the Contract.
7. The Contractor must provide all reports that are required by the Contract and any other information that Canada may reasonably require from time to time.
8. The Contractor is fully responsible for performing the Work. Canada will not be responsible for any negative consequences or extra costs if the Contractor follows any advice given by Canada unless the Contracting Authority provides the advice to the Contractor in writing and includes a statement specifically relieving the Contractor of any responsibility for negative consequences or extra costs that might result from following the advice.

## 2035 06 (2010-01-11) Subcontracts

1. Except as provided in subsection 2, the Contractor must obtain the Contracting Authority's written consent before subcontracting or permitting the subcontracting of any part of the Work. A subcontract includes a contract entered into by any subcontractor at any tier to perform any part of the Work.
2. The Contractor is not required to obtain consent for subcontracts specifically authorized in the Contract. The Contractor may also without the consent of the Contracting Authority:
  - a. purchase "off-the-shelf" items and any standard articles and materials that are ordinarily produced by manufacturers in the normal course of business;
  - b. subcontract any portion of the Work as is customary in the carrying out of similar contracts; and;
  - c. permit its subcontractors at any tier to make purchases or subcontract as permitted in paragraphs (a) and (b).
3. In any subcontract other than a subcontract referred to in paragraph 2.(a), the Contractor must, unless the Contracting Authority agrees in writing, ensure that the subcontractor is bound by conditions compatible with and, in the opinion of the Contracting Authority, not less favourable to Canada than the conditions of the Contract.
4. Even if Canada consents to a subcontract, the Contractor is responsible for performing the Contract and Canada is not responsible to any subcontractor. The Contractor is responsible for any matters or things done or provided by any subcontractor under the Contract and for paying any subcontractors for any part of the Work they perform.

## 2035 07 (2008-05-12) Specifications

1. All Specifications provided by Canada or on behalf of Canada to the Contractor in connection with the Contract belong to Canada and must be used by the Contractor only for the purpose of performing the Work.
2. If the Contract provides that Specifications furnished by the Contractor must be approved by Canada, that approval will not relieve the Contractor of its responsibility to meet all requirements of the Contract.

## 2035 08 (2008-05-12) Replacement of Specific Individuals

1. If specific individuals are identified in the Contract to perform the Work, the Contractor must provide the services of those individuals unless the Contractor is unable to do so for reasons beyond its control.
2. If the Contractor is unable to provide the services of any specific individual identified in the Contract, it must provide a replacement with similar qualifications and experience. The replacement must meet the criteria used in the selection of the Contractor and be acceptable to Canada. The Contractor must, as soon as possible, give notice to the Contracting Authority of the reason for replacing the individual and provide:
  - a. the name, qualifications and experience of the proposed replacement; and
  - b. proof that the proposed replacement has the required security clearance granted by Canada, if applicable.
3. The Contractor must not, in any event, allow performance of the Work by unauthorized replacement persons. The Contracting Authority may order that a replacement stop performing the Work. In such a case, the Contractor must immediately comply with the order and secure a further replacement in accordance with subsection 2. The fact that the Contracting Authority does not order that a replacement stop performing the Work does not relieve the Contractor from its responsibility to meet the requirements of the Contract.

## 2035 09 (2008-05-12) Time of the Essence

It is essential that the Work be performed within or at the time stated in the Contract.

## 2035 10 (2008-05-12) Excusable Delay

1. A delay in the performance by the Contractor of any obligation under the Contract that is caused by an event that
  - a. is beyond the reasonable control of the Contractor,
  - b. could not reasonably have been foreseen,
  - c. could not reasonably have been prevented by means reasonably available to the Contractor, and
  - d. occurred without the fault or neglect of the Contractor,will be considered an "Excusable Delay" if the Contractor advises the Contracting Authority of the occurrence of the delay or of the likelihood of the delay as soon as the Contractor becomes aware of it. The Contractor must also advise the Contracting Authority, within fifteen (15) working days, of all the circumstances relating to the delay and provide to the Contracting Authority for approval a clear work around plan explaining in detail the steps that the Contractor proposes to take in order to minimize the impact of the event causing the delay.
2. Any delivery date or other date that is directly affected by an Excusable Delay will be postponed for a reasonable time that will not exceed the duration of the Excusable Delay.
3. However, if an Excusable Delay has continued for thirty (30) days or more, the Contracting Authority may, by giving notice in writing to the Contractor, terminate the Contract. In such a case, the Parties agree that neither will make any claim against the other for damages, costs, expected profits or any other loss arising out of the termination or the event that contributed to the Excusable Delay. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.

4. Unless Canada has caused the delay by failing to meet an obligation under the Contract, Canada will not be responsible for any costs incurred by the Contractor or any of its subcontractors or agents as a result of an Excusable Delay.
5. If the Contract is terminated under this section, the Contracting Authority may require the Contractor to deliver to Canada, in the manner and to the extent directed by the Contracting Authority, any completed parts of the Work not delivered and accepted before the termination and anything that the Contractor has acquired or produced specifically to perform the Contract. Canada will pay the Contractor:
  - a. the value, of all completed parts of the Work delivered to and accepted by Canada, based on the Contract Price, including the proportionate part of the Contractor's profit or fee included in the Contract Price; and
  - b. the Cost to the Contractor that Canada considers reasonable in respect of anything else delivered to and accepted by Canada.

The total amount paid by Canada under the Contract to the date of termination and any amounts payable under this subsection must not exceed the Contract Price.

## 2035 11 (2008-05-12) Inspection and Acceptance of the Work

1. All the Work is subject to inspection and acceptance by Canada. Inspection and acceptance of the Work by Canada do not relieve the Contractor of its responsibility for defects or other failures to meet the requirements of the Contract. Canada will have the right to reject any Work that is not in accordance with the requirements of the Contract and require its correction or replacement at the Contractor's expense.
2. The Contractor must provide representatives of Canada access to all locations where any part of the Work is being performed at any time during working hours. Representatives of Canada may make examinations and such tests of the Work as they may think fit. The Contractor must provide all assistance and facilities, test pieces, samples and documentation that the representatives of Canada may reasonably require for the carrying out of the inspection. The Contractor must forward such test pieces and samples to such person or location as Canada specifies.
3. The Contractor must inspect and approve any part of the Work before submitting it for acceptance or delivering it to Canada. The Contractor must keep accurate and complete inspection records that must be made available to Canada on request. Representatives of Canada may make copies and take extracts of the records during the performance of the Contract and for up to three (3) years after the end of the Contract.

## 2035 12 (2013-03-21) Invoice Submission

1. Invoices must be submitted in the Contractor's name. The Contractor must submit invoices for each delivery or shipment; invoices must only apply to the Contract. Each invoice must indicate whether it covers partial or final delivery.
2. Invoices must show:
  - a. the date, the name and address of the client department, item or reference numbers, deliverable/description of the Work, contract number, Client Reference Number (CRN), Procurement Business Number (PBN), and financial code(s);
  - b. details of expenditures (such as item, quantity, unit of issue, unit price, fixed time labour rates and level of effort, subcontracts, as applicable) in accordance with the Basis of Payment, exclusive of Applicable Taxes;

- c. deduction for holdback, if applicable;
  - d. the extension of the totals, if applicable; and
  - e. if applicable, the method of shipment together with date, case numbers and part or reference numbers, shipment charges and any other additional charges.
3. Applicable Taxes must be specified on all invoices as a separate item along with corresponding registration numbers from the tax authorities. All items that are zero-rated, exempt or to which Applicable Taxes do not apply, must be identified as such on all invoices.
4. By submitting an invoice, the Contractor certifies that the invoice is consistent with the Work delivered and is in accordance with the Contract.

## 2035 13 (2013-03-21) Taxes

1. Federal government departments and agencies are required to pay Applicable Taxes.
2. Applicable Taxes will be paid by Canada as provided in the Invoice Submission section. It is the sole responsibility of the Contractor to charge Applicable Taxes at the correct rate in accordance with applicable legislation. The Contractor agrees to remit to appropriate tax authorities any amounts of Applicable Taxes paid or due.
3. The Contractor is not entitled to use Canada's exemptions from any tax, such as provincial sales taxes, unless otherwise specified by law. The Contractor must pay applicable provincial sales tax, ancillary taxes, and any commodity tax, on taxable goods or services used or consumed in the performance of the Contract (in accordance with applicable legislation), including for material incorporated into real property.
4. In those cases where Applicable Taxes, customs duties, and excise taxes are included in the Contract Price, the Contract Price will be adjusted to reflect any increase, or decrease, of Applicable Taxes, customs duties, and excise taxes that will have occurred between bid submission and contract award. However, there will be no adjustment for any change to increase the Contract Price if public notice of the change was given before bid submission date in sufficient detail to have permitted the Contractor to calculate the effect of the change.
5. Tax Withholding of 15 Percent – Canada Revenue Agency  
  
Pursuant to the [Income Tax Act](#), 1985, c. 1 (5th Supp.) and the [Income Tax Regulations](#), Canada must withhold 15 percent of the amount to be paid to the Contractor in respect of services provided in Canada if the Contractor is not a resident of Canada, unless the Contractor obtains a valid waiver from the [Canada Revenue Agency](#). The amount withheld will be held on account for the Contractor in respect to any tax liability which may be owed to Canada.

## 2035 14 (2010-01-11) Transportation Costs

If transportation costs are payable by Canada under the Contract and the Contractor makes the transportation arrangements, shipments must be made by the most direct and economical means consistent with normal shipping practice. The costs must be shown as a separate item on the invoice.

## 2035 15 (2010-01-11) Transportation Carriers' Liability

The federal government's policy of underwriting its own risks precludes payment of insurance or valuation charges for transportation beyond the point at which ownership of goods passes to the

federal government (determined by the FOB point or Incoterms). Where increased carrier liability is available without charge, the Contractor must obtain the increased liability for shipment.

## 2035 16 (2012-07-16) Payment Period

1. Canada's standard payment period is thirty (30) days. The payment period is measured from the date an invoice in acceptable form and content is received in accordance with the Contract or the date the Work is delivered in acceptable condition as required in the Contract, whichever is later. A payment is considered overdue on the 31<sup>st</sup> day following that date and interest will be paid automatically in accordance with the section 17.
2. If the content of the invoice and its substantiating documentation are not in accordance with the Contract or the Work is not in acceptable condition, Canada will notify the Contractor within fifteen (15) days of receipt. The 30-day payment period begins upon receipt of the revised invoice or the replacement or corrected Work. Failure by Canada to notify the Contractor within fifteen (15) days will only result in the date specified in subsection 1 to apply for the sole purpose of calculating interest on overdue accounts.

## 2035 17 (2008-12-12) Interest on Overdue Accounts

1. For the purpose of this section:  
  
"Average Rate" means the simple arithmetic mean of the Bank Rates in effect at 4:00 p.m. Eastern Time each day during the calendar month immediately before the calendar month in which payment is made;  
  
"Bank Rate" means the rate of interest established from time to time by the Bank of Canada as the minimum rate at which the Bank of Canada makes short term advances to members of the Canadian Payments Association;  
  
"date of payment" means the date of the negotiable instrument drawn by the Receiver General for Canada to pay any amount under the Contract;  
  
an amount becomes "overdue" when it is unpaid on the first day following the day on which it is due and payable according to the Contract.
2. Canada will pay to the Contractor simple interest at the Average Rate plus 3 percent per year on any amount that is overdue, from the date that amount becomes overdue until the day before the date of payment, inclusive. The Contractor is not required to provide notice to Canada for interest to be payable.
3. Canada will pay interest in accordance with this section only if Canada is responsible for the delay in paying the Contractor. Canada will not pay interest on overdue advance payments.

## 2035 18 (2008-05-12) Compliance with Applicable Laws

1. The Contractor must comply with all laws applicable to the performance of the Contract. The Contractor must provide evidence of compliance with such laws to Canada at such times as Canada may reasonably request.
2. The Contractor must obtain and maintain at its own cost all permits, licenses, regulatory approvals and certificates required to perform the Work. If requested by the Contracting Authority, the Contractor must provide a copy of any required permit, license, regulatory approvals or certificate to Canada.

## 2035 19 (2008-05-12) Ownership

1. Unless provided otherwise in the Contract, the Work or any part of the Work belongs to Canada after delivery and acceptance by or on behalf of Canada.
2. However if any payment is made to the Contractor for or on account of any Work, either by way of progress or milestone payments, that work paid for by Canada belongs to Canada upon such payment being made. This transfer of ownership does not constitute acceptance by Canada of the Work or any part of the Work and does not relieve the Contractor of its obligation to perform the Work in accordance with the Contract.
3. Despite any transfer of ownership, the Contractor is responsible for any loss or damage to the Work or any part of the Work until it is delivered to Canada in accordance with the Contract. Even after delivery, the Contractor remains responsible for any loss or damage to any part of the Work caused by the Contractor or any subcontractor.
4. Upon transfer of ownership to the Work or any part of the Work to Canada, the Contractor must, if requested by Canada, establish to Canada's satisfaction that the title is free and clear of all claims, liens, attachments, charges or encumbrances. The Contractor must execute any conveyances and other instruments necessary to perfect the title that Canada may require.

## 2035 20 (2008-05-12) Copyright

In this section, "Material" means anything that is created by the Contractor as part of the Work under the Contract, that is required by the Contract to be delivered to Canada and in which copyright subsists. "Material" does not include anything created by the Contractor before the date of the Contract.

Copyright in the Material belongs to Canada and the Contractor must include the copyright symbol and either of the following notice on the Material: © Her Majesty the Queen in right of Canada (year) or © Sa Majesté la Reine du chef du Canada (année).

The Contractor must not use, copy, divulge or publish any Material except as is necessary to perform the Contract. The Contractor must execute any conveyance and other documents relating to copyright in the Material as Canada may require.

The Contractor must provide at the request of Canada a written permanent waiver of moral rights, in a form acceptable to Canada, from every author that contributed to the Material. If the Contractor is the author of the Material, the Contractor permanently waives its moral rights in the Material.

## 2035 21 (2008-05-12) Translation of Documentation

The Contractor agrees that Canada may translate in the other official language any documentation delivered to Canada by the Contractor that does not belong to Canada under section 20. The Contractor acknowledges that Canada owns the translation and that it is under no obligation to provide any translation to the Contractor. Canada agrees that any translation must include any copyright notice and any proprietary right notice that was part of the original. Canada acknowledges that the Contractor is not responsible for any technical errors or other problems that may arise as a result of the translation.

## 2035 22 (2008-05-12) Confidentiality

1. The Contractor must keep confidential all information provided to the Contractor by or on behalf of Canada in connection with the Work, including any information that is confidential or

- proprietary to third parties, and all information conceived, developed or produced by the Contractor as part of the Work when copyright or any other intellectual property rights in such information belongs to Canada under the Contract. The Contractor must not disclose any such information without the written permission of Canada. The Contractor may disclose to a subcontractor any information necessary to perform the subcontract as long as the subcontractor agrees to keep the information confidential and that it will be used only to perform the subcontract.
2. The Contractor agrees to use any information provided to the Contractor by or on behalf of Canada only for the purpose of the Contract. The Contractor acknowledges that all this information remains the property of Canada or the third party, as the case may be. Unless provided otherwise in the Contract, the Contractor must deliver to Canada all such information, together with every copy, draft, working paper and note that contains such information, upon completion or termination of the Contract or at such earlier time as Canada may require.
  3. Subject to the [Access to Information Act](#), R.S., 1985, c. A-1, and to any right of Canada under the Contract to release or disclose, Canada must not release or disclose outside the Government of Canada any information delivered to Canada under the Contract that is proprietary to the Contractor or a subcontractor.
  4. The obligations of the Parties set out in this section do not apply to any information if the information:
    - a. is publicly available from a source other than the other Party; or
    - b. is or becomes known to a Party from a source other than the other Party, except any source that is known to be under an obligation to the other Party not to disclose the information; or
    - c. is developed by a Party without use of the information of the other Party.
  5. Wherever possible, the Contractor must mark or identify any proprietary information delivered to Canada under the Contract as "Property of (Contractor's name), permitted Government uses defined under Public Works and Government Services (PWGSC) Contract No. (fill in Contract Number)". Canada will not be liable for any unauthorized use or disclosure of information that could have been so marked or identified and was not.
  6. If the Contract, the Work, or any information referred to in subsection 1 is identified as TOP SECRET, SECRET, CONFIDENTIAL, or PROTECTED by Canada, the Contractor must at all times take all measures reasonably necessary for the safeguarding of the material so identified, including those set out in the PWGSC Industrial Security Manual and its supplements and any other instructions issued by Canada.
  7. If the Contract, the Work, or any information referred to in subsection 1 is identified as TOP SECRET, SECRET, CONFIDENTIAL, or PROTECTED, by Canada, representatives of Canada are entitled to inspect the Contractor's premises and the premises of a subcontractor at any tier for security purposes at any time during the term of the Contract. The Contractor must comply with, and ensure that any subcontractor complies with, all written instructions issued by Canada dealing with the material so identified, including any requirement that employees of the Contractor or of any subcontractor execute and deliver declarations relating to reliability screenings, security clearances and other procedures.

## 2035 23 (2008-05-12) Government Property

1. All Government Property must be used by the Contractor solely for the purpose of the Contract and remains the property of Canada. The Contractor must maintain adequate

accounting records of all Government Property and, whenever feasible, mark it as being the property of Canada.

2. The Contractor must take reasonable and proper care of all Government Property while it is in its possession or subject to its control. The Contractor is responsible for any loss or damage resulting from its failure to do so other than loss or damage caused by ordinary wear and tear.
3. All Government Property, unless it is installed or incorporated in the Work, must be returned to Canada on demand. All scrap and all waste materials, articles or things that are Government Property must, unless provided otherwise in the Contract, remain the property of Canada and must be disposed of only as directed by Canada.
4. At the time of completion of the Contract, and if requested by the Contracting Authority, the Contractor must provide to Canada an inventory of all Government Property relating to the Contract.

## 2035 24 (2008-05-12) Liability

The Contractor is liable for any damage caused by the Contractor, its employees, subcontractors, or agents to Canada or any third party. Canada is liable for any damage caused by Canada, its employees or agents to the Contractor or any third party. The Parties agree that no limitation of liability or indemnity provision applies to the Contract unless it is specifically incorporated in full text in the Articles of Agreement. Damage includes any injury to persons (including injury resulting in death) or loss of or damage to property (including real property) caused as a result of or during the performance of the Contract.

## 2035 25 (2008-05-12) Intellectual Property Infringement and Royalties

1. The Contractor represents and warrants that, to the best of its knowledge, neither it nor Canada will infringe any third party's intellectual property rights in performing or using the Work, and that Canada will have no obligation to pay royalties of any kind to anyone in connection with the Work.
2. If anyone makes a claim against Canada or the Contractor concerning intellectual property infringement or royalties related to the Work, that Party agrees to notify the other Party in writing immediately. If anyone brings a claim against Canada, according to [Department of Justice Act](#), R.S., 1985, c. J-2, the Attorney General of Canada must have the regulation and conduct of all litigation for or against Canada, but the Attorney General may request that the Contractor defend Canada against the claim. In either case, the Contractor agrees to participate fully in the defence and any settlement negotiations and to pay all costs, damages and legal costs incurred or payable as a result of the claim, including the amount of any settlement. Both Parties agree not to settle any claim unless the other Party first approves the settlement in writing.
3. The Contractor has no obligation regarding claims that were only made because:
  - a. Canada modified the Work or part of the Work without the Contractor's consent or used the Work or part of the Work without following a requirement of the Contract; or
  - b. Canada used the Work or part of the Work with a product that the Contractor did not supply under the Contract (unless that use is described in the Contract or the manufacturer's specifications); or
  - c. the Contractor used equipment, drawings, specifications or other information supplied to the Contractor by Canada (or by someone authorized by Canada); or
  - d. the Contractor used a specific item of equipment or software that it obtained because of specific instructions from the Contracting Authority; however, this exception only



applies if the Contractor has included the following language in its own contract with the supplier of that equipment or software: "[Supplier name] acknowledges that the purchased items will be used by the Government of Canada. If a third party claims that equipment or software supplied under this contract infringes any intellectual property right, [supplier name], if requested to do so by either [Contractor name] or Canada, will defend both [Contractor name] and Canada against that claim at its own expense and will pay all costs, damages and legal fees payable as a result of that infringement." Obtaining this protection from the supplier is the Contractor's responsibility and, if the Contractor does not do so, it will be responsible to Canada for the claim.

4. If anyone claims that, as a result of the Work, the Contractor or Canada is infringing its intellectual property rights, the Contractor must immediately do one of the following:
  - a. take whatever steps are necessary to allow Canada to continue to use the allegedly infringing part of the Work; or
  - b. modify or replace the Work to avoid intellectual property infringement, while ensuring that the Work continues to meet all the requirements of the Contract; or
  - c. take back the Work and refund any part of the Contract Price that Canada has already paid.

If the Contractor determines that none of these alternatives can reasonably be achieved, or if the Contractor fails to take any of these steps within a reasonable amount of time, Canada may choose either to require the Contractor to do (c), or to take whatever steps are necessary to acquire the rights to use the allegedly infringing part(s) of the Work itself, in which case the Contractor must reimburse Canada for all the costs it incurs to do so.

## 2035 26 (2008-05-12) Amendment and Waivers

1. To be effective, any amendment to the Contract must be done in writing by the Contracting Authority and the authorized representative of the Contractor.
2. While the Contractor may discuss any proposed modifications to the Work with other representatives of Canada, Canada will not be responsible for the cost of any modification unless it has been incorporated into the Contract in accordance with subsection 1.
3. A waiver will only be valid, binding or affect the rights of the Parties if it is made in writing by, in the case of a waiver by Canada, the Contracting Authority and, in the case of a waiver by the Contractor, the authorized representative of the Contractor.
4. The waiver by a Party of a breach of any condition of the Contract will not be treated or interpreted as a waiver of any subsequent breach and therefore will not prevent that Party from enforcing of that term or condition in the case of a subsequent breach.

## 2035 27 (2008-05-12) Assignment

1. The Contractor must not assign the Contract without first obtaining the written consent of the Contracting Authority. Any assignment made without that consent is void and will have no effect. The assignment will be effective upon execution of an assignment agreement signed by the Parties and the assignee.
2. Assignment of the Contract does not relieve the Contractor from any obligation under the Contract and it does not impose any liability upon Canada.

## 2035 28 (2008-05-12) Suspension of the Work

1. The Contracting Authority may at any time, by written notice, order the Contractor to suspend or stop the Work or part of the Work under the Contract for a period of up to one hundred eighty (180) days. The Contractor must immediately comply with any such order in a way that minimizes the cost of doing so. While such an order is in effect, the Contractor must not remove any part of the Work from any premises without first obtaining the written consent of the Contracting Authority. Within these one hundred eighty (180) days, the Contracting Authority must either cancel the order or terminate the Contract, in whole or in part, under section 29 or section 30.
2. When an order is made under subsection 1, unless the Contracting Authority terminates the Contract by reason of default by the Contractor or the Contractor abandons the Contract, the Contractor will be entitled to be paid its additional costs incurred as a result of the suspension plus a fair and reasonable profit.
3. When an order made under subsection 1 is cancelled, the Contractor must resume work in accordance with the Contract as soon as practicable. If the suspension has affected the Contractor's ability to meet any delivery date under the Contract, the date for performing the part of the Work affected by the suspension will be extended for a period equal to the period of suspension plus a period, if any, that in the opinion of the Contracting Authority, following consultation with the Contractor, is necessary for the Contractor to resume the Work. Any equitable adjustments will be made as necessary to any affected conditions of the Contract.

## 2035 29 (2008-05-12) Default by the Contractor

1. If the Contractor is in default in carrying out any of its obligations under the Contract, the Contracting Authority may, by giving written notice to the Contractor, terminate for default the Contract or part of the Contract. The termination will take effect immediately or at the expiration of a cure period specified in the notice, if the Contractor has not cured the default to the satisfaction of the Contracting Authority within that cure period.
2. If the Contractor becomes bankrupt or insolvent, makes an assignment for the benefit of creditors, or takes the benefit of any statute relating to bankrupt or insolvent debtors, or if a receiver is appointed under a debt instrument or a receiving order is made against the Contractor, or an order is made or a resolution passed for the winding down of the Contractor, the Contracting Authority may, to the extent permitted by the laws of Canada, by giving written notice to the Contractor, immediately terminate for default the Contract or part of the Contract.
3. If Canada gives notice under subsection 1 or 2, the Contractor will have no claim for further payment except as provided in this section. The Contractor will be liable to Canada for all losses and damages suffered by Canada because of the default or occurrence upon which the notice was based, including any increase in the cost incurred by Canada in procuring the Work from another source. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.
4. Upon termination of the Contract under this section, the Contracting Authority may require the Contractor to deliver to Canada, in the manner and to the extent directed by the Contracting Authority, any completed parts of the Work, not delivered and accepted before the termination and anything the Contractor has acquired or produced specifically to perform the Contract. In such a case, subject to the deduction of any claim that Canada may have against the Contractor arising under the Contract or out of the termination, Canada will pay or credit to the Contractor:

- a. the value, of all completed parts of the Work delivered to and accepted by Canada, based on the Contract Price, including the proportionate part of the Contractor's profit or fee included in the Contract Price; and
- b. the cost to the Contractor that Canada considers reasonable in respect of anything else delivered to and accepted by Canada.

The total amount paid by Canada under the Contract to the date of the termination and any amount payable under this subsection must not exceed the Contract Price.

5. Title to everything for which payment is made to the Contractor will, once payment is made, pass to Canada unless it already belongs to Canada under any other provision of the Contract.
6. If the Contract is terminated for default under subsection 1, but it is later determined that grounds did not exist for a termination for default, the notice will be considered a notice of termination for convenience issued under subsection 1 of section 30.

## 2035 30 (2008-05-12) Termination for Convenience

1. At any time before the completion of the Work, the Contracting Authority may, by giving notice in writing to the Contractor, terminate for convenience the Contract or part of the Contract. Once such a notice of termination for convenience is given, the Contractor must comply with the requirements of the termination notice. If the Contract is terminated in part only, the Contractor must proceed to complete any part of the Work that is not affected by the termination notice. The termination will take effect immediately or, as the case may be, at the time specified in the termination notice.
2. If a termination notice is given pursuant to subsection 1, the Contractor will be entitled to be paid, for costs that have been reasonably and properly incurred to perform the Contract to the extent that the Contractor has not already been paid or reimbursed by Canada. The Contractor will be paid:
  - a. on the basis of the Contract Price, for all completed work that is inspected and accepted in accordance with the Contract, whether completed before, or after the termination in accordance with the instructions contained in the termination notice;
  - b. the Cost to the Contractor plus a fair and reasonable profit for all work terminated by the termination notice before completion; and
  - c. all costs incidental to the termination of the Work incurred by the Contractor but not including the cost of severance payments or damages to employees whose services are no longer required, except wages that the Contractor is obligated by statute to pay.
3. Canada may reduce the payment in respect of any part of the Work, if upon inspection, it does not meet the requirements of the Contract.
4. The total of the amounts, to which the Contractor is entitled to be paid under this section, together with any amounts paid, due or becoming due to the Contractor must not exceed the Contract Price. The Contractor will have no claim for damages, compensation, loss of profit, allowance arising out of any termination notice given by Canada under this section except to the extent that this section expressly provides. The Contractor agrees to repay immediately to Canada the portion of any advance payment that is unliquidated at the date of the termination.

## 2035 31 (2008-05-12) Accounts and Audit

1. The Contractor must keep proper accounts and records of the cost of performing the Work and of all expenditures or commitments made by the Contractor in connection with the Work,

- including all invoices, receipts and vouchers. The Contractor must retain records, including bills of lading and other evidence of transportation or delivery, for all deliveries made under the Contract.
2. If the Contract includes payment for time spent by the Contractor, its employees, representatives, agents or subcontractors performing the Work, the Contractor must keep a record of the actual time spent each day by each individual performing any part of the Work.
  3. Unless Canada has consented in writing to its disposal, the Contractor must retain all the information described in this section for six (6) years after it receives the final payment under the Contract, or until the settlement of all outstanding claims and disputes, whichever is later. During this time, the Contractor must make this information available for audit, inspection and examination by the representatives of Canada, who may make copies and take extracts. The Contractor must provide all reasonably required facilities for any audit and inspection and must furnish all the information as the representatives of Canada may from time to time require to perform a complete audit of the Contract.
  4. The amount claimed under the contract, calculated in accordance with the Basis of Payment provision in the Articles of Agreement, is subject to government audit both before and after payment is made. If an audit is performed after payment, the Contractor agrees to repay any overpayment immediately on demand by Canada. Canada may hold back, deduct and set off any credits owing and unpaid under this section from any money that Canada owes to the Contractor at any time (including under other contracts). If Canada does not choose to exercise this right at any given time, Canada does not lose this right.

## 2035 32 (2008-05-12) Right of Set-off

Without restricting any right of set-off given by law, Canada may set-off against any amount payable to the Contractor under the Contract, any amount payable to Canada by the Contractor under the Contract or under any other current contract. Canada may, when making a payment pursuant to the Contract, deduct from the amount payable to the Contractor any such amount payable to Canada by the Contractor which, by virtue of the right of set-off, may be retained by Canada.

## 2035 33 (2008-05-12) Notice

Any notice under the Contract must be in writing and may be delivered by hand, courier, mail, facsimile or other electronic method that provides a paper record of the text of the notice. It must be sent to the Party for whom it is intended at the address stated in the Contract. Any notice will be effective on the day it is received at that address. Any notice to Canada must be delivered to the Contracting Authority.

## 2035 34 (2008-05-12) Conflict of Interest and Values and Ethics Codes for the Public Service

The Contractor acknowledges that individuals who are subject to the provisions of the [Conflict of Interest Act](#), 2006, c. 9, s. 2, the Conflict of Interest Code for Members of the House of Commons, the Values and Ethics Code for the Public Service or all other codes of values and ethics applicable within specific organizations cannot derive any direct benefit resulting from the Contract.

## 2035 35 (2008-05-12) No Bribe or Conflict

1. The Contractor declares that no bribe, gift, benefit, or other inducement has been or will be paid, given, promised or offered directly or indirectly to any official or employee of Canada or

- to a member of the family of such a person, with a view to influencing the entry into the Contract or the administration of the Contract.
2. The Contractor must not influence, seek to influence or otherwise take part in a decision of Canada knowing that the decision might further its private interest. The Contractor must have no financial interest in the business of a third party that causes or would appear to cause a conflict of interest in connection with the performance of its obligations under the Contract. If such a financial interest is acquired during the period of the Contract, the Contractor must immediately declare it to the Contracting Authority.
  3. The Contractor warrants that, to the best of its knowledge after making diligent inquiry, no conflict exists or is likely to arise in the performance of the Contract. In the event the Contractor becomes aware of any matter that causes or is likely to cause a conflict in relation to the Contractor's performance under the Contract, the Contractor must immediately disclose such matter to the Contracting Authority in writing.
  4. If the Contracting Authority is of the opinion that a conflict exists as a result of the Contractor's disclosure or as a result of any other information brought to the Contracting Authority's attention, the Contracting Authority may require the Contractor to take steps to resolve or otherwise deal with the conflict or, at its entire discretion, terminate the Contract for default. Conflict means any matter, circumstance, interest, or activity affecting the Contractor, its personnel or subcontractors, which may or may appear to impair the ability of the Contractor to perform the Work diligently and independently.

## 2035 36 (2008-05-12) Survival

All the Parties' obligations of confidentiality, representations and warranties set out in the Contract as well as the provisions, which by the nature of the rights or obligations might reasonably be expected to survive, will survive the expiry or termination of the Contract.

## 2035 37 (2008-05-12) Severability

If any provision of the Contract is declared by a court of competent jurisdiction to be invalid, illegal or unenforceable, that provision will be removed from the Contract without affecting any other provision of the Contract.

## 2035 38 (2008-05-12) Successors and Assigns

The Contract is to the benefit of and binds the successors and permitted assignees of Canada and of the Contractor.

## 2035 39 (2008-12-12) Contingency Fees

The Contractor certifies that it has not directly or indirectly, paid or agreed to pay and agrees that it will not, directly or indirectly, pay a contingency fee for the solicitation, negotiation or obtaining of the Contract to any person, other than an employee of the Contractor acting in the normal course of the employee's duties. In this section, "contingency fee" means any payment or other compensation that depends or is calculated based on a degree of success in soliciting, negotiating or obtaining the Contract and "person" includes any individual who is required to file a return with the registrar pursuant to section 5 of the [Lobbying Act](#), 1985, c. 44 (4th Supplement).

## 2035 40 (2012-07-16) International Sanctions

1. Persons in Canada, and Canadians outside of Canada, are bound by economic sanctions imposed by Canada. As a result, the Government of Canada cannot accept delivery of goods or services that originate, either directly or indirectly, from the countries or persons subject to [economic sanctions](#).
2. The Contractor must not supply to the Government of Canada any goods or services which are subject to economic sanctions.
3. The Contractor must comply with changes to the regulations imposed during the period of the Contract. The Contractor must immediately advise Canada if it is unable to perform the Work as a result of the imposition of economic sanctions against a country or person or the addition of a good or service to the list of sanctioned goods or services. If the Parties cannot agree on a work around plan, the Contract will be terminated for the convenience of Canada in accordance with section 30.

## 2035 41 (2012-11-09) Code of Conduct and Certifications - Contract

1. The Contractor agrees to comply with the [Code of Conduct for Procurement](#) and to be bound by its terms. In addition to complying with the [Code of Conduct for Procurement](#), the Contractor must also comply with the terms set out in this section.
2. The Contractor further understands that, to ensure fairness, openness and transparency in the procurement process, the commission of certain acts or offences may result in a termination for default under the Contract. If the Contractor made a false declaration in its bid, makes a false declaration under the Contract, fails to diligently maintain up to date the information herein requested, or if the Contractor or any of the Contractor's affiliates fail to remain free and clear of any acts or convictions specified herein during the period of the Contract, such false declaration or failure to comply may result in a termination for default under the Contract. The Contractor understands that a termination for default will not restrict Canada's right to exercise any other remedies that may be available against the Contractor and agrees to immediately return any advance payments.
3. For the purpose of this section, everyone, including but not limited to organizations, bodies corporate, societies, companies, firms, partnerships, associations of persons, parent companies and subsidiaries, whether partly or wholly-owned, as well as individuals and directors, are Contractor's affiliates if:

- a. directly or indirectly either one controls or has the power to control the other, or
- b. a third party has the power to control both.

Indicia of control, include, but are not limited to, interlocking management or ownership, identity of interests among family members, shared facilities and equipment, common use of employees, or a business entity created following the acts or convictions specified in this section which has the same or similar management, ownership, or principal employees, as the case may be.

4. The Contractor must diligently maintain an up-to-date list of names by informing Canada in writing of any change occurring during the period of the contract. The Contractor must also, when so requested, provide Canada with the corresponding Consent Forms.
5. The Contractor certifies that it is aware, and that its affiliates are aware, that Canada may verify the information provided by the Contractor, including the information relating to the acts

or convictions specified herein through independent research, use of any government resources or by contacting third parties.

6. The Contractor certifies that neither the Contractor nor any of the Contractor's affiliates have directly or indirectly, paid or agreed to pay, and will not, directly or indirectly, pay a contingency fee to any individual for the solicitation, negotiation or obtaining of the Contract if the payment of the fee would require the individual to file a return under section 5 of the [Lobbying Act](#).
7. The Contractor certifies that no one convicted under any of the provisions under a) or b) are to receive any benefit under the contract. In addition, the Contractor certifies that except for those offences where a criminal pardon or a record suspension has been obtained or capacities restored by the Governor in Council, neither the Contractor nor any of the Contractor's affiliates has ever been convicted of an offence under any of the following provisions:
  - a. paragraph 80(1)(d) (False entry, certificate or return), subsection 80(2) (Fraud against Her Majesty) or section 154.01 (Fraud against Her Majesty) of the [Financial Administration Act](#), or
  - b. section 121 (Frauds on the government and Contractor subscribing to election fund), section 124 (Selling or Purchasing Office), section 380 (Fraud) for fraud committed against Her Majesty or section 418 (Selling defective stores to Her Majesty) of the [Criminal Code](#) of Canada, or
  - c. section 462.31 (Laundering proceeds of crime) or sections 467.11 to 467.13 (Participation in activities of criminal organization) of the [Criminal Code](#) of Canada, or
  - d. section 45 (Conspiracies, agreements or arrangements between competitors), 46 (Foreign directives) 47 (Bid rigging), 49 (Agreements or arrangements of federal financial institutions), 52 (False or misleading representation), 53 (Deceptive notice of winning a prize) under the [Competition Act](#), or
  - e. section 239 (False or deceptive statements) of the [Income Tax Act](#), or
  - f. section 327 (False or deceptive statements) of the [Excise Tax Act](#), or
  - g. section 3 (Bribing a foreign public official) of the [Corruption of Foreign Public Officials Act](#), or
  - h. section 5 (Trafficking in substance), section 6 (Importing and exporting), or section 7 (Production of substance) of the [Controlled Drugs and Substance Act](#).

## 2035 42 (2008-05-12) Harassment in the Workplace

1. The Contractor acknowledges the responsibility of Canada to ensure, for its employees, a healthy work environment, free of harassment. A copy of the [Policy on Harassment Prevention and Resolution](#), which is also applicable to the Contractor, is available on the Treasury Board Web site.
2. The Contractor must not, either as an individual, or as a corporate or unincorporated entity, through its employees or subcontractors, harass, abuse, threaten, discriminate against or intimidate any employee, contractor or other individual employed by, or under contract with Canada. The Contractor will be advised in writing of any complaint and will have the right to respond in writing. Upon receipt of the Contractor's response, the Contracting Authority will, at its entire discretion, determine if the complaint is founded and decide on any action to be taken.

## 2035 43 (2008-05-12) Entire Agreement

The Contract constitutes the entire and only agreement between the Parties and supersedes all previous negotiations, communications and other agreements, whether written or oral, unless they are

incorporated by reference in the Contract. There are no terms, covenants, representations, statements or conditions binding on the Parties other than those contained in the Contract.

## 2035 44 (2012-07-16) Access to Information

Records created by the Contractor, and under the control of Canada, are subject to the [Access to Information Act](#). The Contractor acknowledges the responsibilities of Canada under the [Access to Information Act](#) and must, to the extent possible, assist Canada in discharging these responsibilities. Furthermore, the Contractor acknowledges that section 67.1 of the [Access to Information Act](#) provides that any person, who destroys, alters, falsifies or conceals a record, or directs anyone to do so, with the intent of obstructing the right of access that is provided by the [Access to Information Act](#) is guilty of an offence and is liable to imprisonment or a fine, or both.



**MEDIUM SUPPORT VEHICLE SYSTEM (MSVS)**  
**STANDARD MILITARY PATTERN (SMP)**

Request For Proposal  
W8476-06-MSMP/L

Part 8 – Resulting Contract ISS  
Annex J

4006 (2010-08-16) Supplemental General Conditions

This Annex includes the Supplemental General Conditions that form part of the Contract: 4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information.

This Annex must only be read in conjunction with the Terms and Conditions of the Contract.

**4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information.**

Public Works and Government Services Canada

- 01 Interpretation
- 02 Records and Disclosure of Foreground Information
- 03 Ownership of Intellectual Property Rights in Foreground Information
- 04 Licenses to Intellectual Property Rights in Foreground and Background Information
- 05 Contractor's Right to Grant Licenses
- 06 Waiver of Moral Rights
- 07 License to Intellectual Property Rights in Canada's Information
- 08 Transfer or License of Contractor's Rights
- 09 Transfer of Intellectual Property Rights Upon Termination of the Contract for Default
- 10 Products Created Using the Foreground Information

**4006 01 (2008-05-12) Interpretation**

1. In the Contract, unless the context otherwise requires:

"Background Information" means all Intellectual Property that is not Foreground Information that is incorporated into the Work or necessary for the performance of the Work and that is proprietary to or the confidential information of the Contractor, its subcontractors or any other third party;

"Firmware" means computer programs that are stored in integrated circuits, read-only memory or other similar devices within the hardware or other equipment;

"Foreground Information" means all Intellectual Property first conceived, developed, produced or reduced to practice as part of the Work under the Contract;

"General Conditions" means the general conditions that form part of the Contract;

"Intellectual Property" means any information or knowledge of an industrial, scientific, technical, commercial, literary, dramatic, artistic or otherwise creative nature relating to the Work, whether oral or recorded in any form or medium and whether or not subject to copyright; this includes but is not limited to any inventions, designs, methods, processes, techniques, know-how, show-how, models, prototypes, patterns, samples, schematics, experimental or test data, reports, drawings, plans, specifications, photographs, manuals and any other documents, Software, and Firmware;

"Intellectual Property Right" means any intellectual property right recognized by law, including any intellectual property right protected by legislation such as patents, copyright, industrial design, integrated circuit topography, and plant breeders' rights, or subject to protection under the law as trade secrets and confidential information.

"Software" means any computer program whether in source or object code (including Firmware), any computer program documentation recorded in any form or upon any medium, and any computer database, including any modification.

2. Canada's primary objective in entering into the Contract is to receive the deliverables contracted for, to be able to use those deliverables, and any Intellectual Property arising by virtue of the Contract for Canada's activities, including future contracts, procurements and to protect or advance the broader public interest. These supplemental general conditions do not affect any existing Intellectual Property Rights in any information belonging to Canada, the Contractor or a third party.
3. Words and expressions defined in the General Conditions and used in these supplemental general conditions have the meanings given to them in the General Conditions. In the event of any inconsistency between the General Conditions and these supplemental general conditions, the applicable provisions of these supplemental general conditions will prevail. If the General Conditions include a section on "Copyright", they are amended by deleting the section in its entirety.
4. If supplemental general conditions [4001](#), [4003](#) and [4004](#) are also incorporated in the Contract, the provisions of those supplemental general conditions concerning the ownership of Intellectual Property will prevail in relation to the subject matter of those supplemental general conditions.
5. References in these supplemental general conditions to the Contractor owning the Foreground Information or any rights in it refer to the Contractor, its subcontractors, its suppliers, its agents, its representatives or any of their employees owning such information or rights, as applicable.

**4006 02 (2008-05-12) Records and disclosure of Foreground Information**

1. During and after the performance of the Contract, the Contractor must keep detailed records of the Foreground Information, including details of its creation, ownership and about any sale or transfer of any right in the Foreground Information. The Contractor must report and fully disclose to Canada all Foreground Information as required by the Contract. If the Contract does not specifically state when and how the Contractor must do so, the Contractor must provide this information when requested by the Contracting Authority or a representative of the department or agency for which the Contract is performed, whether before or after the completion of the Contract.
2. Before and after final payment to the Contractor, the Contractor must provide Canada with access to all records and supporting data that Canada considers pertinent to the identification of Foreground Information.
3. For any Intellectual Property that was developed or created in relation to the Work, Canada will be entitled to assume that it was developed or created by Canada, if the Contractor's records do not list that Intellectual Property or do not indicate that it was created by the Contractor, or by someone on behalf of the Contractor, other than Canada.

**4006 03 (2008-05-12) Ownership of Intellectual Property Rights in Foreground Information**

1. All Intellectual Property Rights in the Foreground Information belong to the Contractor as soon as they come into existence.
2. Despite the Contractor's ownership of all the Intellectual Property Rights in the Foreground Information, Canada has unrestricted ownership rights in any prototype, model, custom or customized system or equipment that is a deliverable under the Contract, including manuals and other operating and maintenance documents. This includes the right to make them available for public use, whether for a fee or otherwise, sell them or otherwise transfer ownership in them.

3. Any personal information, as defined in the Privacy Act, R.S., 1985, c. P-21, collected by the Contractor in the execution of the Work under the Contract becomes the property of Canada immediately upon collection and must be used only for the performance of the Work. The Contractor has no right in any such personal information.
4. If the Work under the Contract involves the preparation of a database or other compilation using information or data supplied by Canada and any personal information referred to above, the Intellectual Property Rights in the database or compilation containing such information will belong to Canada. The Contractor's Intellectual Property Rights in the Foreground Information are restricted to those capable of being exploited without the use of the information or data supplied by Canada and the personal information.
5. The Contractor must maintain the confidentiality of the information or data supplied by Canada and the personal information as required in the General Conditions. The Contractor must return all the information belonging to Canada on request or on completion or termination of the Contract. This includes returning all hard copies and electronic copies as well as any paper or electronic record that contains any part of the information or information derived from it.

**4006 04 (2008-05-12) Licenses to Intellectual Property Rights in Foreground and Background Information**

1. As Canada has contributed to the cost of developing the Foreground Information, the Contractor grants to Canada a license to exercise all Intellectual Property Rights in the Foreground Information for Canada's activities. Subject to any exception described in the Contract, this license allows Canada to do anything that it would be able to do if it were the owner of the Foreground Information, other than exploit it commercially and transfer or assign ownership of it. The Contractor also grants to Canada a license to use the Background Information to the extent that it is reasonably necessary for Canada to exercise fully all its rights in the deliverables and in the Foreground Information.
2. These licenses are non-exclusive, perpetual, irrevocable, worldwide, fully-paid and royalty-free. Neither license can be restricted in any way by the Contractor providing any form of notice to the contrary, including the wording on any shrink-wrap or click-wrap license or any other kind of packaging, attached to any deliverable.
3. For greater certainty, Canada's licenses include, but are not limited to:
  - (a) the right to disclose the Foreground and Background Information to third parties bidding on or negotiating contracts with Canada and to sublicense or otherwise authorize the use of that information by any contractor engaged by Canada solely for the purpose of carrying out such contracts. Canada will require these third parties and contractors not to use or disclose that information except as may be necessary to bid on, negotiate or carry out those contracts;
  - (b) the right to disclose the Foreground and Background Information to other governments for information purposes;
  - (c) the right to reproduce, modify, improve, develop or translate the Foreground and Background Information or have it done by a person hired by Canada. Canada, or a person designated by Canada, will own the Intellectual Property Rights associated with the reproduction, modification, improvement, development or translation;
  - (d) without restricting the scope of any license or other right in the Background Information that Canada may otherwise hold, the right, in relation to any custom-designed or custom-manufactured part of the Work, to exercise such of the

Intellectual Property Rights in the Background Information as may be required for the following purposes:

- (i) for the use, operation, maintenance, repair or overhaul of the custom-designed or custom-manufactured parts of the Work;
  - (ii) in the manufacturing of spare parts for maintenance, repair or overhaul of any custom-designed or custom-manufactured part of the Work by Canada, if those parts are not available on reasonable commercial terms to enable timely maintenance, repair or overhaul;
  - (e) for Software that is custom designed for Canada, the right to use any source code the Contractor must deliver to Canada under the Contract.
4. The Contractor agrees to make the Background Information, including in the case of Software, the source code promptly available to Canada for any purpose mentioned above. The license does not apply to any Software that is subject to detailed license conditions that are set out elsewhere in the Contract. Furthermore, in the case of commercial off-the-shelf software, the Contractor's obligation to make the source code promptly available to Canada applies only to source code that is within the control of or can be obtained by the Contractor or any subcontractor.

**4006 05 (2008-05-12) Contractor's Right to Grant Licenses**

The Contractor represents and warrants that it has the right to grant to Canada the licenses and any other rights to use the Foreground and Background Information. If the Intellectual Property Rights in any Foreground or Background Information are or will be owned by a subcontractor or any other third party, the Contractor must have or obtain promptly a license from that subcontractor or third party that permits compliance with section 4 or arrange, without delay, for the subcontractor or third party to grant promptly any required license directly to Canada.

**4006 06 (2008-05-12) Waiver of Moral Rights**

If requested by Canada, during and after the Contract, the Contractor must provide a written permanent waiver of moral rights, as defined in the Copyright Act, R.S., 1985, c. C-42, from every author that contributes to any Foreground Information subject to copyright protection that is a deliverable to Canada under the Contract. If the Contractor is an author of the Foreground Information, the Contractor permanently waives the Contractor's moral rights in that Foreground Information.

**4006 07 (2008-05-12) License to Intellectual Property Rights to Canada's Information**

1. Any information supplied by Canada to the Contractor for the performance of the Work remains the property of Canada. The Contractor must use Canada's Information only to perform the Contract.
2. If the Contractor wants to use any information owned by Canada for the commercial exploitation or further development of the Foreground Information, the Contractor must obtain a license from the department or agency for which the Contract is performed. In its request for a license to that department or agency, the Contractor must explain why the license is required and how the Contractor intends to use the information. If the department or agency agrees to grant a license, conditions will be negotiated between the Contractor and that department or agency and may include the payment of a compensation to Canada.

**4006 08 (2008-05-12) Transfer or License of Contractor's Rights**

1. During the Contract, the Contractor must not sell, transfer, assign or license the Foreground Information without first obtaining the Contracting Authority's written permission.
2. After the Contract, if the Contractor transfer ownership in the Foreground Information, the Contractor is not required to obtain Canada's permission, but must notify the department or agency for whom the Contract is performed in writing of the transfer by referring to the serial number of the Contract and its date and by providing details about the transferee, including the conditions of the transfer. The Contractor must ensure that the transfer requires the transferee to notify the Canada of any future transfer. Any transfer must be subject to all Canada's rights to use the Foreground Information.
3. After the Contract, if the Contractor grants a license or any other right (other than a transfer of ownership) to a third party to use the Foreground Information, the Contractor is not required to notify Canada, but the license or right granted must not affect Canada's rights in any way.
4. If the Contractor at any time transfers ownership of or grants rights in the Foreground Information that interfere in any way with Canada's rights to use the Foreground Information, the Contractor must, if requested by Canada, immediately take all steps necessary to restore Canada's rights. If the Contractor is not successful in doing so, within the time reasonably required by Canada, the Contractor must immediately reimburse Canada for all costs Canada incurs to do so itself.

**4006 09 (2008-05-12) Transfer of Intellectual Property Rights upon Termination of the Contract for Default**

1. If Canada terminates the Contract in whole or in part for default, Canada may, by giving notice to the Contractor, require the Contractor to transfer to Canada all the Intellectual Property Rights in the Foreground Information, including the rights owned by subcontractors. In the case of Intellectual Property Rights in the Foreground Information that have been sold or assigned to a third party, the Contractor must pay to Canada on demand, at Canada's discretion, the fair market value of the Intellectual Property Rights in the Foreground Information or an amount equal to the payment received by the Contractor from the sale or assignment of the Intellectual Property Rights in the Foreground Information.
2. In the event of the issuance of a notice under subsection 1, the Contractor must, at its own expense and without delay, execute such documents relating to ownership of the Intellectual Property Rights as Canada may require. The Contractor must, at Canada's expense, provide all reasonable assistance in the preparation of applications and in the prosecution of any applications for registration of any Intellectual Property Rights in any jurisdiction, including the assistance of the inventor in the case of an invention.

**4006 10 (2008-05-12) Products created using the Foreground Information**

If the Contractor uses the Foreground Information to develop any new product or any improvement in any existing product, the Contractor agrees that, if Canada wishes to purchase such new or improved product, the Contractor must sell them to Canada at a discount off the lowest price for which it has sold those products to other customers, to recognize Canada's financial contribution to the development of those products.