

**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des  
soumissions - TPSGC**  
11 Laurier St. / 11, rue Laurier  
Place du Portage, Phase III  
Core 0A1 / Noyau 0A1  
Gatineau, Québec K1A 0S5  
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

<b>Title - Sujet</b> AIR DROP ZONE LOAD RECOV. VEHICLES	
<b>Solicitation No. - N° de l'invitation</b> W8476-144742/C	<b>Date</b> 2014-05-14
<b>Client Reference No. - N° de référence du client</b> W8476-144742	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HS-620-65112	
<b>File No. - N° de dossier</b> hs620.W8476-144742	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2014-06-09</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Shirwa, Marian	<b>Buyer Id - Id de l'acheteur</b> hs620
<b>Telephone No. - N° de téléphone</b> (819) 956-3994 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Industrial Vehicles & Machinery Products Division  
11 Laurier St./11, rue Laurier  
7B1, Place du Portage, Phase III  
Gatineau  
Québec  
K1A 0S5

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**This cancels and supersedes the previous Request for Proposition no. W8476-144742/B dated 2014-02-13 which was due at 2:00 p.m. on 2014-03-17.**

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## PART 1 - GENERAL INFORMATION

### 1. Introduction

The bid solicitation and resulting contract document is divided into seven (7) parts plus annexes 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 and states that the Bidder agrees to be bound by the clauses and conditions contained in all parts of 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: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Other Requirements includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The attachments include the Annex A - Pricing, Annex B - Federal Contractors Program for Employment Equity - Certification, the purchase description, the technical information questionnaire.

### 2. Summary

The Department of National Defence has a requirement to purchase two (2) all-terrain air drop zone load recovery vehicles and ancillary items, including familiarization instruction/training, in accordance with the Purchase Description for All-terrain Air Drop Zone Load Recovery Vehicles dated 2013-10-08, and as described at Annex A - Pricing.

The requirement includes an option to purchase up to one(1)all-terrain air drop zone load recovery vehicle and ancillary items to be exercised within twelve (12) months as indicated in the requisition) from the effective date of the contract.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement, the North American Free Trade Agreement, the Canada-Columbia Free Trade Agreement, the Canada-Peru Free Trade Agreement, the Canada-Panama Free Trade Agreement and the Agreement on Internal Trade.

### 3. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within fifteen (15) working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

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## PART 2 - BIDDER INSTRUCTIONS

### 1. Standard Instructions, Clauses and Conditions

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 issued by Public Works and Government Services Canada (PWGSC).

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the terms and conditions of the resulting contract.

The 2003 (2014-03-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

**Subsection 05.4** of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

**Delete:** Bids will remain open for acceptance for a period of not less than sixty (60) days from the closing date of the bid solicitation

**Insert:** Bids will remain open for acceptance for a period of not less than ninety (90) calendar days from the closing date of the bid solicitation

### 2. Submission of Bids

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.

### 3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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.

### 4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, 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.

### 5. Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications, Statement of Work or Purchase Description 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

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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 will be given consideration provided they are submitted to the Contracting Authority at least seven (7) calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## **6. Environmental Considerations**

Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Environmental performance considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances. In accordance with the Policy on Green Procurement, for this solicitation:

The successful bidder will be requested, after contract award, to provide all correspondence including (but not limited to) documents, reports and invoices in electronic format unless otherwise specified by the Contracting Authority, the Technical Authority or the Procurement Authority, thereby reducing printed material.

Bidders should recycle (shred) unneeded copies of non-classified/secure documents (taking into consideration the Security Requirements).

Product components used in performing the services should be recyclable and/or reusable, whenever possible.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

First page of the Request for Proposal signed by the bidder or an authorized representative of the Bidder (1 signed copy)

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

Section IV: Additional Information (1 hard copy)

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;
- (b) use a numbering system that corresponds to the bid solicitation.

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:

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

### Section I: Technical Bid

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Bidders should submit, with their bid, the completed Technical Information Questionnaire for each configuration for which they are submitting a bid.

### 1. Substitutes and Alternatives

Bidders may propose substitutes and alternatives where "shall<sup>(E)</sup>" is indicated in the technical requirement description (Purchase Description/Statement of Requirement/Statement of Work).

1. Substitutes and alternatives that are equivalent in form, fit, function, quality and performance will be considered for acceptance by the Technical Authority where the Bidder:

- (a) Clearly identifies a substitute and/or an alternative;
- (b) Designates the brand name, model and/or part number of the substitute and/or of the product, where applicable;

- (c) States that the substitute product is fully interchangeable with the item specified in the technical requirement description;
  - (d) Provides complete specifications and brochures, where applicable;
  - (e) Provides compliance statements that include technical details showing the substitute and/or the alternative meet all technical requirements specified in the technical requirement description; and
  - (f) Clearly identifies those areas in the technical requirement description and in the brochures that support the substitute and/or the alternative compliance with the technical requirements.
2. Substitutes and alternatives offered as equivalent in form, fit, function quality and performance will not be considered for acceptance by the Technical Authority if:
- (a) The bid fails to provide all of the information requested to allow the Technical Authority to fully evaluate the evaluate the equivalency; or
  - (b) The substitute and/or the alternative fail to meet or fail to exceed the technical requirements specified in the technical requirement description.
3. Bidders are encouraged to offer or suggest green products whenever possible.

## **Section II: Financial Bid**

Bidders must submit their bid in accordance with the Basis of Payment specified in Part 7 and at Annex A - Pricing. The total amount of applicable taxes must be shown separately.

Bidders should complete Annex A and submit it with their bid.

### **1. SACC Manual Clauses**

#### **1.1 Exchange Rate Fluctuation**

1. Unless otherwise specified in the bid solicitation, bids must be in Canadian currency.
2. Bidders may request Canada to assume the risk for exchange rate fluctuation. This request must be specifically made at time of bidding.
3. 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 FOB foreign manufacturer's plant, costs associated with applicable duty, excise tax and Applicable Taxes, 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.
4. The foreign value of the foreign currency component of the bid or negotiated price must be provided before contract award. 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.
5. 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 date of bid closing, or such other date as may be

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specified in the bid solicitation, 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.)

6. Rates proposed by bidders will not be accepted for the purposes of this exchange rate adjustment provision.

7. 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.

8. 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 one of the following clauses: C3015C, C3020C, C3025C, or C3030C.

### **Section III: Certifications**

#### **1. Certifications**

Bidders must submit the certifications required under Part 5.

### **Section IV: Additional Information**

#### **1. Additional Information**

Canada requests that bidders submit the following information:

##### **1.1 Delivery**

###### **1.1.1 Firm Quantity**

While delivery of the equipment/vehicle is requested by January 30, 2015, the best delivery that could be offered is as follows:

**Item 001:** Two (2) All-terrain Air Drop Zone Load Recovery Vehicles and ancillary items will be delivered within \_\_\_\_\_ weeks/calendar days from the effective date of the contract.

###### **1.1.2 Optional Quantity**

The best delivery that could be offered is as follows:

**Item 002:** If an option is exercised, one (1) All-terrain Air Drop Zone Load Recovery Vehicle and ancillary items will be delivered within \_\_\_\_\_ weeks/calendar days.

#### **1.2 Supplier Contacts**

Name and telephone number of the person responsible for:

General enquiries

Name: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

E-mail address: \_\_\_\_\_

Delivery follow-up

Name: \_\_\_\_\_

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Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

E-mail address: \_\_\_\_\_

### 1.3 After Sales Service

Canada requests that the Bidder provide the names, addresses and telephone numbers of their dealers and/or agents authorized to provide after sales service, maintenance and warranty repairs, and a full range of repair parts for the vehicle/equipment offered. The Bidder should show the distance between the delivery location and the authorized dealer and/or agent and the delivery location, which should not be more than 100 kilometres.

#### Trenton Ontrario

Distance between the delivery location and the dealer and/or agent: \_\_\_\_\_ km

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone number: \_\_\_\_\_

### 1.4 Manufacturer's Standard Warranty Period

Canada requests that the Bidder provide details of the manufacturer's standard warranty period for the vehicle/equipment and its component that exceeds the minimum warranty period of **twelve (12) months or 2000 hours of usage, whichever comes first**. Any additional manufacturer's standard warranty such as those derived from the Original Equipment Manufacturer (OEM) for component/sub-assemblies will form part of the proposed contract.

### 1.5 Extended Warranty Period

Canada requests that the Bidder indicate if an extended warranty period is being offered that exceeds the minimum warranty period of twelve (12) months or 2000 hours of usage, whichever comes first.

If yes, Canada requests that the Bidder provide details and pricing information of any extended warranty period available for the vehicle/equipment and any ancillary items.

Any extended warranty period offered will not be included in the financial evaluation.

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## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 1. Evaluation Procedures

(a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

(b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### 1.1. Mandatory Technical Evaluation Criteria

##### 1.1.1 Mandatory Proof of Compliance

Bidders must submit, with their bid, all proof of compliance required in the Purchase Description and the Technical Information Questionnaire.

##### 1.1.2 Substitutes and/or Alternatives

Bidders proposing substitutes and/or alternatives must provide with their bid, all the information as detailed in Part 3, Section 1, - Substitutes and Alternatives to be considered for evaluation.

#### 1.2. Mandatory Financial Evaluation Criteria

**1.2.1.** Bidders must provide with their bid all financial information requested in the bid solicitation and at Annex A - Pricing for items 001, 002 and 004.

**1.2.2** The prices of the bid must be in Canadian dollars, DDP Delivered Duty Paid at destination, Incoterms 2000, for item 001 the firm quantity and FCA Free Carrier at Contractor's Canadian facility or the Contractor's Canadian Distribution Point, Incoterms 2000 for item 002 (optional quantity) and 004 (optional familiarization instruction/training), Canadian Custom Duties and Excise Taxes included where applicable, and Applicable Taxes are extra.

##### 1.2.1.3 Aggregate Evaluated Price

Bids will be evaluated on an aggregate price basis for the firm quantity, the optional quantity and familiarization instructions/training (option) as follows:

a) the firm lot prices for the firm quantity, the optional quantity and familiarization instruction/training (option) will be multiplied by their identified estimated quantities; and

b) the sum of all results will determine the evaluated aggregate price.

### 2. Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical and financial evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated aggregate price will be recommended for award of a contract.

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## PART 5 – CERTIFICATIONS

Bidders must provide the required certifications and associated information to be awarded a Contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority may render the bid non-responsive or constitute a default under the Contract.

### 1. Certifications Required Precedent to Contract Award

#### 1.1 Integrity Provisions – Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions 2003. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

#### 1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from Employment and Social Development Canada (ESDC) - Labour's website. Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

### 2. Additional Certifications 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 inform the Bidder of a time frame within which to provide the information. Failure to comply with the request of the Contracting Authority and to provide the certifications within the time frame provided will render the bid Non-responsive.

#### 2.1 Product Conformance

The Bidder certifies that all vehicles/equipment proposed conform, and will continue to conform throughout the duration of the contract, to all technical specifications of the

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purchase description(s).

This certification does not relieve the bid from meeting all mandatory technical evaluation criteria detailed in Part 4.

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Bidder's authorized representative signature Date

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## PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

### 1. Security Requirement

There is no security requirement associated with this bid solicitation.

### 2. Financial Capability

**SACC Reference**  
A9033T

**Title**  
Financial Capability

**Date**  
2012-07-16

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## PART 7 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### 1. Requirement

The Contractor must deliver two (2) All-terrain Air Drop Zone Load Recovery Vehicles and ancillary items, including familiarization instruction/training, in accordance with the Purchase Description for Excavator, Tracked, DED, dated 2013-10-08, and as described at Annex A - Pricing.

An option is included to purchase one (1) All-terrain Air Drop Zone Load Recovery Vehicle and ancillary items to be exercised within twelve (12) months from the effective date of the contract.

#### 1.1 Technical Changes, Substitutes and Alternatives

Any technical changes, substitutes and alternatives proposed by the Contractor must be evaluated for acceptance by the Technical Authority. Any substitutes and alternatives must be equivalent in form, fit, function, quality and performance to what is being replaced and must be at no additional cost to Canada. Substitutes and alternatives that are offered as equivalent will only be acceptable once they are approved by the Technical Authority as an equivalent. A contract amendment or a completed Design Change/Deviation form will be issued.

Should the Technical Authority not accept the substitute or the alternative and the Contractor is unable to meet the technical requirement, Canada may terminate the contract for default in accordance with the general conditions stated in the contract.

#### 1.2 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described herein 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 option may be exercised at the discretion of Canada in whole or in part or in more than one occasion, up to the maximum quantity identified herein.

The Contracting Authority may exercise the option within twelve (12) months after contract award by sending a written notice to the Contractor.

The Contractor must advise the Technical Authority and Contracting Authority of any design updates that could affect the procurement of additional vehicles/equipment.

### 2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract 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>) issued by Public Works and Government Services Canada.

#### 2.1 General Conditions

2010A (2014-03-01) General Conditions - Medium Complexity - Goods, apply to and form part of the Contract.

Section 09 entitled Warranty of General Conditions 2010A is amended as follows:

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At subsection 1, delete the following: "The warranty period will be twelve (12) months" and replace with the following: "The warranty period will be twelve (12) months, or 2,000 hours of usage, whichever comes first".

Delete subsection 2 in its entirety and replace with the following:

The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also 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 as directed by Canada. If, 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 responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

If action to effect repairs under warranty cannot be initiated within two (2) working days and completed within a reasonable length of time or if the Contractor has no repair facilities in the immediate vicinity (within 100 kilometres) of the specified delivery destinations (consignees), Canada reserves the right to make such repairs and be reimbursed by the Contractor at the rate of \$103.91 per hour for labour and the cost for replaced parts."

All other provisions of the warranty section remain in effect.

### **3. Security Requirement**

There is no security requirement applicable to this Contract.

### **4. Term of Contract**

#### **4.1 Delivery Date**

Delivery of the vehicle/equipment must be made as follows:

#### **Firm Quantity**

**Item 001:** Two (2) All-terrain Air Drop Zone Load Recovery Vehicles and ancillary items must be delivered within to be inserted by PWGSC weeks/calendar days from the effective date of the contract.

#### **Optional Quantity**

**Item 002:** If the option is exercised, one (1) All-terrain Air Drop Zone Load Recovery Vehicle and ancillary items must be delivered within to be inserted by PWGSC weeks/calendar days after an option is exercised.

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Marian Shirwa  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
LEFTD - HS Division

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Place du Portage, Phase III, 7B1  
Gatineau, Quebec K1A 0S5  
Telephone: 819-956-3994  
Facsimile: 819-956-5227  
E-mail address: marian.shirwa@pwgsc-tpsgc.gc.ca

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.

## 5.2 Procurement Authority

The Procurement Authority for the contract is:

To be inserted by PWGSC

DLP \_\_\_\_\_  
National Defence Headquarters  
Mgen. George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, Ontario K1A 0K2  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

## 5.3 Technical Authority

The Technical Authority for the Contract is:

To be inserted by PWGSC

National Defence Headquarters  
Mgen. George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, Ontario K1A 0K2  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is 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.

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## 5.4 Contractor's Representative

### General enquiries

Name: To be inserted by PWGSC

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

E-mail address: \_\_\_\_\_

### Delivery follow-up

Name: To be inserted by PWGSC

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

E-mail address: \_\_\_\_\_

## 5.5 After Sales Service

The following dealer and/or agent is authorized to provide after sales service, maintenance and warranty repairs; and a full range of repair parts for the vehicle/equipment offered:

Trenton, Ontario

Distance between the delivery location and the dealer and/or agent: to be inserted by PWGSC km

Name:

Address:

Telephone Number:

## 6. Payment

### 6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm price(s) specified in Annex "A" - Pricing, and as follows:

#### 6.1.1 Basis of Payment (BOP) Type 1

Firm lot prices in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

#### 6.1.2 Basis of Payment (BOP) Type 2

Firm lot prices in Canadian dollars, FCA Free Carrier, Incoterms 2000 at Contractor's Canadian facility or Contractor's Canadian distribution point, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

#### 6.1.3 Basis of Payment (BOP) Type 3

Price to be negotiated in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra. The transportation cost will be "negotiated" when Canada intends to exercise an option and has identified the applicable quantities and destinations. When requested by Canada, as a basis for negotiation, the Contractor must provide the transportation price(s) and relevant information.

#### 6.1.4 Basis of Payment (BOP) Type 4

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/index.php?sid=90&hl=1&lang=eng>), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

All travel must have the prior authorization of the Technical Authority. All payments are subject to government audit.

All travel and living expenses incurred in the performance of the work outside Canada will be the Contractor's responsibility.

When requested by Canada, the Contractor must provide an estimated cost and relevant information for the travel and living.

## 6.2 SACC Manual Clauses

SACC Reference	Title	Date
C6000C	Limitation of Price	2011-05-16
H1001C	Multiple Payments	2008-05-12

## 6.3 Exchange Rate/Payment on Delivery

- The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments.
- The price must be adjusted to reflect the exchange rate in effect and applied by Canada Border Services Agency (CBSA) on the date of importation, but only in respect of the foreign currency component detailed in the above form.
- No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.
- On each invoice or claim for payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In addition, the invoice must be accompanied by a copy of CBSA Form B3-3, Canada Customs Coding Form, for the imported goods, services or both.
- Canada will have the right to audit any revision to costs and prices under this clause.

## 7. Invoicing

### 7.1 Invoicing Instructions

- The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions.
- Invoices cannot be submitted before delivery, inspection and acceptance of the vehicle/equipment/service.
- The Applicable Taxes must be calculated on the total amount of the invoice before the holdback is applied. At the time the holdback is claimed, there will be no taxes payable as they were claimed and payable under the previous invoice for the vehicle/equipment/service.

4. Upon delivery, inspection and acceptance of all ancillary items related to such vehicle/equipment/service the Contractor can submit an invoice for the release of the holdback.

5. Each invoice must be supported by:

(a) a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses;

6. The Contractor is requested to provide invoices in electronic format unless otherwise specified by the Contracting Authority or Procurement Authority, thereby reducing printed material.

7. Invoices must be distributed as follows:

(a) The original must be forwarded or emailed to the Procurement Authority identified under the section entitled "Authorities" of the Contract for acceptance and payment.

(b) One (1) copy must be forwarded or emailed to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## **7.2 Holdback**

1. Canada will apply a ten (10) percent holdback on any due payment for the vehicle/equipment/service (Items 001 to 002) until delivery, inspection and acceptance of all ancillary items related to such vehicle/equipment/service.

2. Subsequent to delivery, inspection and acceptance of all ancillary items related to such vehicle/equipment/service the Contractor must submit an invoice for the release of the Holdback in accordance with "Invoicing Instructions" found in this contract.

## **8. Certifications**

### **8.1 Compliance**

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if 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.

### **8.2 Federal Contractors Program for Employment Equity - Default by the Contractor**

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

## **9. Applicable Laws**

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

## 10. Priority of Documents

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) the 2010A (2014-03-01)General Conditions - Medium Complexity - Goods;
- (c) Annex A - Pricing;
- (d) Purchase Description for All-terrain Air Drop Zone Load Recovery Vehicle, dated 2013-10-08.
- (e) Annex B - Federal Contractors program for employment equity - Certification
- (f) The Contractor's bid dated (to be inserted by PWGSC) \_\_\_\_\_, as amended (to be inserted by PWGSC) \_\_\_\_\_.

## 11. SACC Manual Clauses

SACC Reference	Title	Date
A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2012-07-16
A9049C	Vehicle Safety	2011-05-16
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian Contractors	2011-05-16
D5510C	Quality Assurance Authority - (DND) - Canadian Based Contractor	2012-07-16
D5515C	Quality Assurance Authority (DND) - Foreign-based and United States Contractor	2010-01-11
D5540C	ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)	2010-08-16
D5604C	Release Document (DND) - Foreign Based Contractor	2008-12-12
D5605C	Release Documents (DND) - United States-based Contractor	2010-01-11
D5606C	Release Documents (DND) - Canadian-based Contractor	2012-07-16
G1005C	Insurance	2008-05-12

## 12. Inspection and Acceptance

The Technical Authority or his representative is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or it's representative. Should any report, document, good or service not be in accordance with the requirements of the Purchase Description 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.

## 13. Preparation for Delivery

1. The vehicle/equipment shall be serviced, adjusted and delivered in condition for immediate use. The interior and exterior must be cleaned before leaving the factory and being released to the inspection authority or consignee at the final delivery location.

2. All vehicles/equipment are to be delivered by appointment only. Any attempt by the carrier to deliver the vehicles/equipment without an appointment may be refused. When the carrier is required to return

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due to its failure to make an appointment for delivery, Canada will not be liable, to pay for any additional costs.

3. The fuel tanks must be at least half full prior to release of the vehicle(s) to DND personnel.

#### **14. Shipping Instructions - Delivery at Destination**

1. The Contractor must ship the goods prepaid DDP - Delivered Duty Paid (in accordance with Annex A - Pricing) as specified below. Unless otherwise directed, delivery must be made by the most economical means. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and Applicable Taxes.

2. The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the person identified in Annex A - Pricing. The consignee may refuse shipments when prior arrangements have not been made.

#### **15. Delivery and Unloading (firm quantity)**

1. Delivery trucks must be equipped with an unloading device which will permit unloading at sites with no hydraulic, stationary or other type of unloading facility.

#### **16. Post-Contract Award Meeting**

Within ten (10) calendar days from the effective date of the Contract, the Contractor must contact the Contracting Authority to determine if a post-contract award meeting is required. A meeting will be convened at the discretion of the Technical Authority after contract award to review technical and contractual requirements. The Contractor shall be responsible for the preparation and distribution of the minutes of meeting within five (5) calendar days after the meeting has been held. The meeting will be held at the Contractor's facilities or at the Department of National Defence facility or via teleconference, at Canada's discretion at no additional cost to Canada, with representatives of the Contractor, the Department of National Defence and Public Works and Government Services Canada.

#### **17. Progress Reports**

The Contractor must prepare and submit a monthly progress report electronically to the Procurement Authority, Technical Authority and Contracting Authority.

The Contractor must answer the following questions:

- (i) Is the delivery of the vehicle/equipment and ancillary items on schedule?
- (ii) Is this requirement free of any areas of concern in which the assistance or guidance of Canada may be required?

Each negative response must be supported with an explanation.

#### **18. Tools and Loose Equipment**

For shipment verification, all items and tools, which are shipped loose with the vehicle/equipment must be listed on the Inspection Certificate (CF1280) or on an attached packing note.

#### **19. Assembly/Preparation at Delivery**

The Contractor must send a Service Representative to each delivery destination to perform the assembly/preparation on all vehicles/equipment delivered. The assembly/preparation must be performed at no additional cost to Canada

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## **20. Interchangeability**

Unless changes during the production run are authorized by the Contracting Authority, all vehicles/equipment supplied against any one item of a contract must be the same make and model, and all like assemblies, sub-assemblies and parts must be interchangeable.

## **21. Environmental Considerations**

Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Environmental performance considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances. In accordance with the Policy on Green Procurement:

The Contractor is requested to provide all correspondence including (but not limited to) documents and reports in electronic format unless otherwise specified by the Contracting Authority, the Technical Authority or the Procurement Authority, thereby reducing printed material.

The Contractor should recycle (shred) unneeded copies of non-classified/secure documents (taking into consideration the Security Requirements).

Product components used in performing the services should be recyclable and/or reusable, whenever possible.

**ANNEX A - PRICING**

**Item 001 – All-terrain Air Drop Zone Load Recovery Vehicle (Firm Quantity)**

The Contractor must deliver two (2) All-terrain Air Drop Zone Load Recovery Vehicles and ancillary items such as but not limited to vehicle manuals, data summary, photographs, preventive maintenance replacement parts kit list, warranty letter(s) and Initial Parts Kits including familiarization instruction/training, in accordance with the attached Purchase Description for All-terrain Air Drop Zone Load Recovery Vehicles dated 2013-10-08.

Two (2) All-terrain Air Drop Zone Load Recovery Vehicles and ancillary items must be delivered to:

8 WG Trenton, Trenton, Ontario  
(Complete address to be inserted by PWGSC at contract award)

\_\_\_\_\_  
\_\_\_\_\_

The contact person at destination is: (to be inserted by PWGSC  
Firm lot price of \$\_\_\_\_\_ per vehicle/equipment and ancillary items, Delivered Duty Paid (... named place of destination), in accordance with Part 7, Basis of Payment Type 1.

Manufacturer: (to be inserted by PWGSC) Model: (to be inserted by PWGSC)

**Item 002 – All-terrain Air Drop Zone Load Recovery Vehicle (Optional Quantity)**

If this option is exercised, the Contractor must deliver one (1) All-terrain Air Drop Zone Load Recovery Vehicle and ancillary items and ancillary items such as but not limited to vehicle manuals, warranty letter(s) and Initial Parts Kits, excluding familiarization instruction/training, in accordance with the attached Purchase Description for All-terrain Air Drop Zone Load Recovery Vehicles dated 2013-10-08.

Quantity: one (1) All-terrain Air Drop Zone Load Recovery Vehicle and ancillary items

Firm lot price of \$\_\_\_\_\_ per vehicle/equipment and ancillary items, at Contractor's Canadian facility or Contractor's Canadian distribution point in accordance with Part 7, Basis of Payment Type 2.

Manufacturer: (to be inserted by PWGSC) Model: (to be inserted by PWGSC)

**Item 003 - Transportation Cost (Optional Quantities)**

If an option is exercised in accordance with item 002 above, the Contractor must deliver the vehicle/equipment to destination as follows:

Quantity: (to be inserted by PWGSC if an option is exercised)

The tracked excavator and ancillary items must be delivered to:

(to be inserted by PWGSC if an option is exercised)

\_\_\_\_\_  
\_\_\_\_\_

The contact person at destination is: (to be inserted by PWGSC if an option is exercised).

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Negotiated price of \$(to be negotiated if an option is exercised) per vehicle/equipment, for transportation cost, Delivered Duty Paid (... named place of destination), in accordance with Part 7, Basis of Payment Type 3.

(Item 003 will not be included in the financial evaluation)

**Item 004 - Familiarization Instruction/Training (Option)**

If this option is exercised, the Contractor must provide one (1) familiarization instruction/training, in accordance with the attached Purchase Description for All-terrain Air Drop Zone Load Recovery Vehicles dated 2013-10-08.

Quantity: one (1)

Firm unit price of \$\_\_\_\_\_in accordance with Part 7, Basis of Payment Type 2.

**Item 005 - Travel and Living for Familiarization Instruction/Training (Option)**

The Contractor must deliver the familiarization instruction/training for Configuration (to be inserted by PWGSC if an option is exercised) to:

(to be inserted by PWGSC if an option is exercised)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Estimated Cost: \$(to be inserted by PWGSC if an option is exercised) in accordance with Part 7, Basis of Payment Type 4.

(Item 005 will not be included in the financial evaluation)

**Item 006 – Extended Warranty Period**

If the warranty period is extended for an additional period of \_\_\_\_\_ months/calendar days, the Contractor will be paid a firm unit price of \$\_\_\_\_\_ per vehicle/equipment, Goods and Services Tax or the Harmonized Sales Tax extra.

(Item 006 will not be included in the financial evaluation)

**ANNEX B****FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION**

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with such request by Canada will also render the bid non-responsive or will constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit HRSDC-Labour's website.

Date: \_\_\_\_\_ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the Employment Equity Act.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
  - A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with HRSDC-Labour.

OR

- A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to HRSDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to HRSDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

OR

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( ) B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

October 8, 2013

**PURCHASE DESCRIPTION  
FOR  
ALL-TERRAIN AIR DROP ZONE LOAD RECOVERY  
VEHICLE  
ECC 140251**

OPI DSVPM 4 – DAPVS 4  
Issued on Authority of the Chief of the Defence Staff  
Publiée avec l'autorisation du Chef d'état-major de la Défense  
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## 1. **SCOPE**

### 1.1 **Scope**

This purchase description covers the requirements for cargo transport vehicles equipped with a hydraulic crane and terra tires. The vehicle will be used for the retrieval of palletized loads from air drops during training exercises.

### 1.2 **Instructions**

The following instructions apply to this Purchase Description:

- a. Requirements, which are identified by the word "***shall***", are mandatory. Deviations will not be permitted;
- b. Requirements identified by "***shall***<sup>(E)</sup>" are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as an Equivalent;
- c. Requirements identified with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- d. Where "***shall***", "***shall***<sup>(E)</sup>", or "will" are not used, the information provided is for guidance only;
- e. In this document "provided" ***shall*** mean "provided and installed";
- f. Where technical certification is required, a copy of the certification or an acceptable proof of compliance ***shall*** be provided upon request;
- g. Metric measurements ***shall*** be used to define the requirement. Other measurements are for reference only and may not be exact conversions; and
- h. Dimensions stated as nominal ***shall*** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

### 1.3 **Definitions**

The following definitions apply to the interpretation of this Purchase Description:

- a. "Technical Authority" - The government official responsible for technical content of this requirement;
- b. "Vehicle" - refers to the cab, chassis, and parts provided with the frame before the addition of the aerial;
- c. "Vehicle/equipment" - refers to the completely manufactured air drop zone pallet recovery vehicle with all related parts and equipment installed;

## 2. **APPLICABLE DOCUMENTS**

### 2.1 **Government Furnished Documents**

NOT APPLICABLE

## 2.2 Other Publications

The following documents form part of this Purchase Description. Web sites for the organization are given when available. Effective documents are those in effect on date of manufacture. Sources are as shown:

### **SAE Handbook**

Society of Automotive Engineers Inc.  
400 Commonwealth Dr.,  
Warrendale, PA, 15096  
<http://www.sae.org>

### **Anthropometric Survey of the Land Forces, 1998**

<http://cradpdf.drdc-rddc.gc.ca/PDFS/zbc76/p508756.pdf>

### **Occupational Health and Safety Act (OHSA), 1990**

Ontario Ministry of Labour,  
400 University Ave.,  
Toronto, Ontario M7A 1T7  
<http://www.labour.gov.on.ca/>

### **Automotive (On-road) Diesel Fuel**

CAN/CGSB Standard 3.517-2007  
Standards Council of Canada  
270 Albert Street, suite 200  
Ottawa, ON K1P 6N7  
Canada  
<https://www.scc.ca/en>

### **Interface Standard for Lifting and Tie-Down Provisions**

MIL-STD-209K-2005

## 3. REQUIREMENTS

### 3.1 Standard Design

The vehicle/equipment ***shall***:

- a. Be the manufacturer's latest model having demonstrated industry acceptability by having been manufactured and sold commercially for at least 2 years, or, ***shall*** be manufactured by a company that has at least 5 years experience in design and manufacturing of a comparable type of equipment of equivalent or greater complexity. The Bidder ***shall*** provide client references as proof of compliance for industry acceptability and/or experience as specified in the purchase description. Client references ***shall*** include client contact information, delivery location, year completed and list of make(s)/model(s).
- b. Have engineering certification for this application from the original manufacturers of major equipment systems and assemblies;
- c. Conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and pollution in effect in Canada at the time of manufacture;
- d. Have system and component capacities not greater than their published ratings (i.e. product or component brochures) or accompanied by proof of compliance; and

- e. Include all components, equipment, and accessories normally supplied for this application, although they may not be specifically described in this purchase description.

### 3.1.1 **Design Principles**

- a. **Standard Components** - Commercially available standard parts complying with commercial standards ***shall*** be used wherever possible;
- b. **Interchangeability** - All components, assemblies, and sub-assemblies used in the construction ***shall*** be designed and manufactured to dimensional tolerances, which will permit interchangeability and facilitate replacement of parts;
- c. **Spare Parts** - The manufacturer ***shall*** select components readily available for a minimum period of fifteen (15) years from the date of manufacture;
- d. **Maintainability** – All routine maintenance and repair tasks ***shall*** be able to be performed at the operator skill level and accessible without the disassembly of major components; and
- e. **Modularity** - Major assemblies ***shall*** be able to be disconnected and removed from the vehicle without the necessity for extensive disassembly of components.

### 3.2 **Operating Conditions**

- 3.2.1 **Weather** - The vehicle/equipment ***shall*** operate under the extremes of weather conditions found in Canada in temperatures ranging from -40 to 37° C (-40 to 99° F) and cold starting from -40° C with external aids.
- 3.2.2 **Terrain** - The vehicle/equipment ***shall*** be operable off-road. Terrain conditions ***shall*** include year round operations on snow, mud, swamp, sand and ice.

### 3.3 **Human Engineering and Safety**

The vehicle/equipment, all systems and components ***shall*** comply with the most recent requirements of the applicable SAE standards, the Anthropometric Survey of the Land Forces and relevant sections of the OHSA and ***shall***:

- a. Be safe and easy to use by a person with suitable clothing for all 5-95<sup>th</sup> percentile body dimension and 5<sup>th</sup> percentile strength under all operating conditions;
- b. Have all entry and exit points equipped with handles and steps suitably positioned where required, to accommodate 5-95<sup>th</sup> percentile body dimensions under all operating conditions; and
- c. Be equipped, where required for operator safety, with safety features such as warning and instruction plates, non-slip walking surfaces and heat shields.

### 3.4 **Noise Level**

The vehicle/equipment interior and exterior noise level ***shall*** meet the requirements of legislation relative to OHSA, SAE Recommended Practice J336 and J1096 both at the operator's station and exterior to the vehicle.

### 3.5 **Weights and Dimensions**

- 3.5.1 **Weight Ratings** - The vehicle ***shall*** have a Gross Vehicle Weight Rating (GVWR), as published in the manufacturer's literature and engineering data which is at least equal to

the total of the load rating and the curb weight of the completed vehicle, including full fuel tanks, all lubricants and fluids, and all special equipment, and ***shall*** be as follows:

- a. The truck ***shall*** have a Gross Axle Weight Rating (GAWR) for each axle equal to or less than the load rating of the weakest component in the axle system, i.e., axle housing, suspension, wheels, or tires;
- b. The GAWR for each axle ***shall*** be sufficient to support the total load imposed on the axle when the truck is fully loaded; no truck component to be loaded greater than its rated capacity;
- c. Component and vehicular load and capacity ratings ***shall*** not be raised above normal commercial levels in order to meet the requirements of this specification; and
- d. The Bidder ***shall*** provide the following as proof of compliance: A computer generated weight analysis calculation which ***shall*** be calculated based on a fully loaded vehicle/equipment.

**3.5.2** **Dimensions** - The Bidder ***shall*** provide dimensioned drawings as proof of compliance for this requirement. The vehicle/equipment with all accessories ***shall*** have the following dimensions:

- a. Maximum overall vehicle length of 12.8 m (42 ft);
- b. Maximum overall vehicle height of 4.57 m (15 ft); and
- c. Maximum overall vehicle width of 4.27 m (14 ft).

**3.6** **Performance**

The vehicle ***shall*** have the following performance:

- a. A forward speed of at least 30 km/h;
- b. Vehicle's capacity to be driven for a minimum of 5 km continuously (without a cooling period); and
- c. Vehicle ***shall*** be able to carry a payload of 10,886 kg (24,000 lb).

**3.7** **Chassis**

The vehicle ***shall*** be an all-terrain, all-wheel drive vehicle and operable in extreme heat and cold, snow and swamp as specified in section 3.2. The vehicle chassis ***shall*** be the manufacturer's standard recommended and suitable for a vehicle of this type and size and for the conditions specified in section 3.5. The Bidder ***shall*** provide a chassis suitability engineering certification as proof of compliance for this requirement. The vehicle ***shall***<sup>(E)</sup> have:

- a. Isolation mountings on cab;
- b. Electric cab tilt and forward tilting hood only if required for maintenance purposes;
- c. Front bumper and fenders full width of tires;
- d. Mud flaps as required;
- e. In-cab driver selectable switch to switch the drive train from all-wheel drive to rear-wheel drive;

- f. At least 50.8 cm (20 in) ground clearance; and
- g. The ability to ford up to 91 cm (3 ft) of water without water ingress.

### 3.8 **Engine Systems**

The engine ***shall*** operate on ultra-low sulphur diesel fuel to the CAN/CGSB Standard 3.517-2007. The Bidder ***shall*** provide an engine manufacturer certification as proof of compliance for this requirement. The design of the engine system ***shall*** include:

- a. An electronic control system suitable for this application;
- b. An electronic foot throttle and an engine high idle feature;
- c. An engine monitoring system that will shut-down or de-rate the engine due to high coolant temperature or low oil pressure; and
- d. A horsepower sufficient enough to meet all performance requirements.

#### 3.8.1 **Engine Components** - Engine components ***shall*** include:

- a. A two stage dry type air cleaning system with a cyclonic pre-cleaner. Filters ***shall*<sup>(E)</sup>** have a filter restriction indicator visible from the operator's station;
- b. A muffler or exhaust system which ***shall*<sup>(E)</sup>** be shielded to prevent contact with personnel operating the equipment;
- c. Weather guards or an effective device to prevent entry of water into intake and exhaust stacks; and
- d. Any measures other than those already required by this purchase description that are necessary to adhere to the engine manufacturer's recommendations for vehicle operation under cold weather conditions.

#### 3.8.2 **Fuel System** - Fuel system ***shall***:

- a. Have fuel tank(s) accessible from ground level or have platform access;
- b. Have fuel tank(s) with a capacity to allow for 8 hours of continuous work,
- c. Be the manufacturer's standard; and
- d. Be at least half full when delivered to the destination.

#### 3.8.3 **Engine Cold Weather Aids** - Cold weather aids to enable the engine (operating with winter grade fuels/oils) to be started at temperatures down to -40° C ***shall*** be provided. External electrical power for engine and battery heaters ***shall*<sup>(E)</sup>** be a single cover-protected plug accessible without lifting engine covers. The following ***shall*** be included:

- a. A water separator/fuel filter incorporating an electrical heating system to preheat diesel fuel prior to starting. The heater ***shall*** be thermostatically controlled;
- b. An in-line fuel heater. The heater ***shall*<sup>(E)</sup>** be thermostatically controlled to prevent fuel temperature from rising above approximately 43° Celsius (110° Fahrenheit) and be a heat exchanger type connected to the cooling system;

- c. A low temperature starting aid. The engine ***shall***<sup>(E)</sup> have glow plugs and / or intake air preheat system;
- d. 110-volt engine heater(s) with a capacity as recommended by the engine manufacturer or conforming to SAE Information Sheet J1310;
- e. 110-volt battery heater(s) having wattage matched to battery size to prevent battery damage due to overheating;
- f. Housing the battery in an insulated battery box or heated cab;
- g. Have a fuel-fired preheat system. The fuel-fired pre-heater provided ***shall*** be the size recommended by the heater manufacturer. The model ***shall*** be subject to Technical Authority approval; and
- h. Have auto-ejector outlet to prevent accidental damage to vehicle or power cable when plugged in to shore power.

### 3.9 **Transmission**

The transmission ***shall*** be the manufacturer's standard for this equipment, which ***shall***<sup>(E)</sup> be power shift, power shuttle or hydrostatic. It ***shall*** be compatible with the diesel engine provided and include a safety device to ensure that the engine can only be started in the neutral or park position. An easily accessible transmission oil dipstick ***shall*** be provided.

### 3.10 **Steering**

The vehicle steering system ***shall*** be the manufacturer's standard steering which ***shall***<sup>(E)</sup> conform to SAE J1511. The vehicle ***shall*** have a powered frame articulation right and left of at least 40 degrees from the vehicle centreline.

### 3.11 **Brake System**

The service brake system and parking brake system ***shall*** be an air or hydraulic disc brake system and conform to industrial standards and to all applicable SAE Standards.

### 3.12 **Wheels, Rims and Tires**

Wheels and rims ***shall*** be the manufacturer's standard type and be provided with wheel covers, tires ***shall*** be a terra type design with a lug tread pattern (not agricultural) to minimize ruts. A spare tire and wheel assembly of the same size and type ***shall*** be provided.

### 3.13 **Cab**

The cab ***shall*** be a three-man, weatherproof pressurized, fully insulated, Roll Over Protective Structure (ROPS) which ***shall***<sup>(E)</sup> conform to SAE J1040. The bidder ***shall*** provide cab ROPS certification as proof of compliance for this requirement. The cab ***shall***:

- a. Have steps or hydraulically operated ladders for ease of access to each side of the driver compartment. The steps ***shall***<sup>(E)</sup> automatically lift to the stowed position before the vehicle is in motion. First step of all ladders to be no higher than 40.64 cm (16 in);
- b. Have a ventilation/heater and defrosting system with multi-speed fan control to keep all cab windows free from frost and moisture;
- c. Have an air conditioning system with temperature control conforming to SAE J1503 and SAE J169. Air conditioning units ***shall*** not use ozone depleting refrigerants such as CFCs (ChloroFluoroCarbons) but preferably use HFCs (Hydro FluoroCarbons);

- d. Have safety glass windows. The glass **shall** be tinted to reduce solar heating load and **shall**<sup>(E)</sup> be equipped with a minimum of two adjustable sun visors and a sliding rear cab window;
- e. Have two speed wipers with intermittent wipe feature to clear the windshield during driving operations, and where the wiper blades **do not** travel from a vertical centre windshield position to a horizontal position near the roof line. The windshield washer system **shall** be electronically operated with a large capacity, easily accessible reservoir;
- f. Have two lockable doors with roll down door windows equipped with two position détente style door stops, or one door and at least one visibly labelled window as an emergency operator escape route;
- g. Have a full function control system with on screen diagnostics switch panels. IQAN MDL Electronic Control System **shall**<sup>(E)</sup> be considered as compliant;
- h. Have two electrically heated, external, west coast type rear view mirrors with folding mounts positioned to provide a full view of both sides of the vehicle for safe operations;
- i. Be equipped with a loud electric or air horn;
- j. Be equipped with at least one auxiliary power port (12 volts);
- k. Be equipped with an AM/FM stereo radio with CD player and auxiliary port;
- l. Be equipped with the manufacturer's standard instruments and cabin lighting;
- m. Be equipped with two (2) cup holders;
- n. Be equipped with a back-up safety camera system. A rear facing colour camera **shall**<sup>(E)</sup> be located to the rear of the vehicle that activates when operating the vehicle in reverse. The back-up safety camera system **shall**<sup>(E)</sup> have a minimum screen size of 3" x 5" and the colour camera display screen **shall**<sup>(E)</sup> be located within the cab area viewable from the drivers seat;
- o. Manufacturer's standard interior trim and lining or insulation sufficient to limit the interior sound levels to a maximum of 85 dB(A) when measured in accordance with SAE J336; and
- p. Be equipped with a 2.3 kg (5 lb) ULC approved and rechargeable dry chemical fire extinguisher with a minimum rating of 3A10BC equipped with a pressure gauge and service inspection tag, mounted externally and readily accessible by the operator.

**3.13.1 Driver Seat** - The cab **shall** include a padded, water-resistant suspension driver seat and backrest, in conformance with SAE J899. The suspension seat **shall**:

- a. Be equipped with seat belts, which **shall**<sup>(E)</sup> be in conformance with SAE J386, Type 1;
- b. Be horizontally and vertically adjustable without having to move from a seated position. The amount of horizontal and vertical adjustment **shall** allow all personnel to operate the vehicle for long periods comfortably and **shall** conform to the human engineering and safety standards in section 3.3. Seat **shall**<sup>(E)</sup> have adjustable headrest and armrest; and

**3.13.2 Passenger Seats** – The cab **shall** include a passenger bench seat, equipped with seat belts, which **shall**<sup>(E)</sup> be in conformance with SAE J386.

**3.14 Deck**

The deck **shall** have the following:

- a. Overall deck size able to hold two (2) pallets size 3.7 m x 2.75 m (12 ft x 9 ft) positioned in either bias. The Bidder **shall** provide dimensioned lay-out drawings as proof of compliance for this requirement;
- b. Overall width that reaches the outer edge of rear tire;
- c. Steel railing along both sides and the rear of the deck surface to allow for the attachment of cargo tie-down straps. Deck surface **shall**<sup>(E)</sup> be made of rough, fir planks to sustain the load required. The deck **shall** be treated with linseed oil;
- d. A metal see-through headache rack (bulkhead) **shall** be located at the rear of the cab;
- e. Access to both sides of the rear deck by suitably positioned steps or hydraulically operated ladders which automatically rise off the ground before the vehicle can move to be located on both sides of the rear deck. A third hydraulic ladder **shall**<sup>(E)</sup> lead to the driver compartment. First step of all ladders to be no higher than 40.64 cm (16 in) and conform to section 3.3; and
- f. Tool boxes **shall**<sup>(E)</sup> be affixed below the deck, minimum one on each side of the vehicle, lockable, waterproof and be approximately 60 cm (2 ft) x 60 cm (2 ft) x 60 cm (2 ft).

**3.15 Equipment**

Equipment and features below **shall** be provided:

**3.15.1 Radiator Guard** - A hinged radiator guard **shall**<sup>(E)</sup> be provided if required to protect the radiator from damage due to contact with trees and brush during operation.

**3.15.2 Vehicle Tie-Down Devices** - Permanent and integrally vehicle tie-down devices that **shall**:

- a. Be designed for forward thrust of 4 G, a rearward thrust of 4 G, an upward thrust of 2 G and a side thrust of 1.5 G (1 G = shipping weight of the equipment), loads are not imposed simultaneously;
- b. Be designed to withstand stresses imposed by thrust loads (all directions) with a factor of safety of 1.5 with respect to the ultimate strength of the material;
- c. Be designed/located to prevent shifting or movement during transport on low-bed trailers, rail car and aboard ships;
- d. Be located to permit easy attachment of cables or turnbuckles;
- e. Be identified and marked with maximum strain permitted. Markings **shall** be painted using a contrasting colour;

- f. Include complete tie down instructions showing locations. This information ***shall*** be shown in the manual and it is preferred that it is marked in the vehicle cab (in the form of decals); and
- g. Recovery tow hooks x (2) ***shall*** be positioned at both the front and rear of the vehicle.

**3.15.3 Vandal Protection** - Vandal protection including provision (Padlock hasps preferred) for locking engine covers, filler caps and the cab.

**3.15.4 Filler Caps** - Clearly/permanently identified, fluid specific filler caps by contents, i.e. "SAE 30 ENGINE OIL, HYDRAULIC OIL ONLY" and "DIESEL FUEL";

**3.16 Crane**

The crane ***shall*<sup>(E)</sup>** be a hydraulic knuckle boom type suitable for loading pallets onto the vehicle deck.

**3.16.1 Crane Capacity**

- a. The minimum lift capacity of the crane ***shall*** be 5,443 kg (12,000 lb) at 6.09 m (20 ft) and 816 kg (1800 lb) at 9.14 m (30 ft) horizontal. If the span of the outriggers is greater than that of the current vehicle, then that difference in length must be added to the minimum horizontal length;
- b. The minimum lift capacity of the crane should be 453 kg (1000 lb) at 20.72 m (68 ft) horizontal;
- c. The crane ***shall*** be able to load pallets anywhere onto the deck including up to the front edge of the deck (closest to the cab); and
- d. When stowed, the crane ***shall*** fold on itself, not lie on the deck.

**3.16.2 Crane Features** - The crane ***shall*<sup>(E)</sup>** have the following features:

- a. A heavy duty slewing mechanism, enclosed in an oil bath to reduce wear. Be able to rotate a minimum of 360 degrees. The crane column ***shall*<sup>(E)</sup>** be at the centre line ( $\pm 1$ ft) of the vehicle to allow for the same outreach on both sides of the vehicle;
- b. The manufacturer's standard control system ;
- c. A controlled extension and retraction sequence;
- d. A warning light indicator for when the boom and/or outriggers are not stowed;
- e. An overload protection system;
- f. A load indicator;
- g. A fault code indicator;
- h. A service time indicator;
- i. A hydraulic Valve 91 system or equivalent;
- j. Standard OEM hook (including integrated safety latch) rated for the load capacities specified in section 3.16.1;

- k. Protected side control levers positioned at the crane base for emergency use;
- l. Load charts easily readable from the crane and in the cabin.

**3.16.3 Crane Outriggers** – Remotely controlled outriggers **shall** be hydraulically operated in/out. The stabilizer legs **shall** move up/down and tilt hydraulically upwards through 180 degrees. The stabilizer legs **shall<sup>(E)</sup>** be able to extend at least 12 inches below ground level to allow for use on uneven terrain. All stabilizer legs **shall** be fitted with a ball-jointed support plate (ball and socket type or equivalent) that can be swivelled through 10 degrees. They **shall** have a warning device to indicate when they are not stowed properly. They **shall** include 4 portable stabilizer leg pads. Each portable pad **shall** be made out of treated hard wood and have a dimension 50.8 cm x 50 .8 cm x 5.08 cm. Each pad **shall** have a rope or webbing type handle attached inside the pad and **shall** include onboard storage space.

**3.16.4 Remote Controller** – Crane operation **shall** be wirelessly controlled and be able to be connected by cable in case of failure of the wireless connection. The Remote Controller **shall<sup>(E)</sup>** have the following features:

- a. Menu displayed on an LED screen visible under all light conditions;
- b. Robust design and allow all features to be operated while wearing work/winter gloves;
- c. All crane functions including stabilizers beam and legs controls;
- d. A function that lets you increase precision by reducing the speed by 50 %(Micro function);
- e. Displays fault codes, safety warnings, using LED display or equivalent;
- f. An in-cab remote control battery charging station. Recharging of the battery for the controller **shall** be done by in cab power cable and from a portable charger;
- g. A neck & waist belt for support;
- h. A radio signal strength display;
- i. A battery indicator which shows when the battery needs to be charged or equivalent;
- j. Battery to be easily accessible for replacement, a spare battery **shall** also be provided;
- k. A live-lever function symbol LED indicator;
- l. An easily accessible emergency stop button; and
- m. A signalling button to sound a horn alerting everyone in the surrounding area.

**3.17 Winch**

The vehicle/equipment **shall** be equipped with two self-recovery winches, one front mounted and one rear mounted. The winches **shall** meet the following requirements:

- a. A minimum rated bare drum line pull, given as, “WINCH - BARE DRUM PULL” of 13,607 kg (30,000 lb);

- b. The winches ***shall*** have a wireless remote control. The remote control ***shall*** be able to be connected by cable in case of failure of the wireless connection; and
- c. The winches shall be supplied with the manufactures recommended diameter and length of wire rope including hook and tail chain.

**3.18 Controls**

Controls ***shall*** be manufacturer's standard including a safety device ensuring that engine can only be started with the transmission in a neutral position. Controls ***shall***:

- a. Not restrict the operator's field of view;
- b. Be permanently marked to identify and show function of each control lever or switch with markings/instructions in English or international symbols as defined by SAE J1362; and
- c. Have controls easily accessible to the operator.

**3.19 Instruments**

Instruments ***shall*** be manufacturer's standard and readily visible when seated in the vehicle driver's seat. Instruments ***shall*** include but not be limited to:

- a. An ammeter, or voltmeter;
- b. An engine oil pressure indicator;
- c. A fuel gauge or fuel gauges, as required;
- d. Coolant temperature indicator;
- e. Transmission temperature gauge or warning device to indicate high temperature;
- f. An hour-meter with numeric display, which accurately records accumulated engine running time up to at least 9,999 hours;
- g. An engine tachometer;
- h. An air pressure gauge in psi and kPa; and
- i. A hydraulic oil temperature gauge and/or warning light.

**3.20 Electrical System**

The vehicle electrical system ***shall***:

- a. Be the manufacturer's standard design for this equipment;
- b. Include a back-up alarm;
- c. Include a lockable battery master disconnect switch located adjacent to the battery box;
- d. Include a remote jump start boosting stud.

### 3.21 **Lighting**

The vehicle/equipment lights **shall**<sup>(E)</sup>;

- a. Include LED type signal, marker, tail, stop, clearance, licence plate, and back-up lights;
- b. Be recessed or otherwise protected from damage with all components easily accessible for servicing;
- c. Include LED or Halogen headlights;
- d. Include one amber coloured LED strobe light mounted on the cab roof. Switch mounted within the cab **shall** operate the beacon light;
- e. Include dimmable instrument panel lamps;
- f. Include an interior LED cab lamp;
- g. Include one driver operated, remote controlled, multi-directional (260 degrees), weather-sealed, white spot/flood lamp. The lamp **shall** be mounted on the roof of the vehicle; and
- h. Include at least two adjustable LED work lights mounted to allow illumination of the rear deck.

### 3.22 **Hydraulic System**

The hydraulic system **shall** be the manufacturer's standard complete with all components required for the operation of the hydraulic equipment specified under the operating conditions stated in section 3.2.

### 3.23 **Lubricants and Hydraulic Fluids**

The vehicle **shall** be serviced with the manufacturer's standard lubricants and hydraulic fluids.

### 3.24 **Exterior Paint**

The vehicle **shall**<sup>(E)</sup> be painted using manufacturer's standard commercial paint. The colour **shall**<sup>(E)</sup> be High Visibility Yellow suitable for operations on an airfield. The prime coating **shall** be a high-durability, corrosion-resistant type. The prime coating **shall**<sup>(E)</sup> be epoxy type or baked powder coat.

### 3.25 **Corrosion Protection**

- a. Dissimilar metals **shall** be protected against galvanic corrosion;
- b. A rust prevention coating **shall** be applied to the vehicle/equipment. The areas to be protected, but not limited to, **shall**<sup>(E)</sup> include: underside of fenders, enclosed and boxed-in sections, seams, mouldings, crevices, weld points, underbody and exposed exterior brackets. The product applied **shall**<sup>(E)</sup> be a commercial product such as Krown Rust Control T-40, or Rust Check. A decal and warranty papers **shall**<sup>(E)</sup> accompany the vehicle; and
- c. All fasteners used by the contractor **shall**<sup>(E)</sup> be stainless steel, brass, zinc-plated, or hot dipped galvanized.

### 3.25.1 **Corrosion Resistant Materials**

The vehicle/equipment ***shall***<sup>(E)</sup>:

- a. Be provided with stainless steel, zinc plated or hot dipped galvanized aluminium rivets, and plastic black oxide brass fasteners; and
- b. Be designed to prevent galvanic corrosion.

### 3.26 **Warning, Markings and Instruction Plates**

International symbols and/or bilingual markings ***shall*** be provided for all identification, instructional, and warning labels. The following items ***shall*** be provided:

- a. Be bilingual and within easy view of the operator and/or make use of graphic symbols, as much as possible, as defined in SAE J1362;
- b. Engraved metal plates labelling all gauges and controls and ***shall*** be attached with rivets wherever possible.
- c. Detailed, bilingual operating instruction plates for all operations.

### 3.27 **Vehicle identification**

The following information placards ***shall***<sup>(E)</sup> be permanently and clearly marked, bilingual and installed in a conspicuous and protected location:

- a. The cab and chassis manufacturer's name, model number, serial number, and model year;
- b. The body manufacturer's model and serial number;
- c. The crane's manufacturer's model and serial number; and
- d. The GVWR and GAWR ratings.

## 4. **Integrated Logistic Support**

### 4.1 **Documentation and Support Items**

The Contractor ***shall*** provide the following documentation and support items.

#### 4.1.1 **Deliverable Information**

The Contractor ***shall*** provide the deliverable information with each vehicle:

- a. **Warranty Letter** – A paper copy of the completed bilingual Warranty Letter with each vehicle shipped in the approved format. The Contractor ***shall*** send a copy of the Warranty Letter, in electronic format, to the Technical Authority for each vehicle, at shipment. Warranty information and certification for corrosion protection ***shall*** be provided. Designated warranty providers ***shall*** honour the warranty letter.
- b. **Vehicle Manuals** – The Vehicle ***shall*** be provided with manuals required for the safe operation, maintenance, and repair of the vehicle, sub-systems, attachments, components, and accessories supplied. Manuals ***shall*** be provided in accordance with the terms of the contract. The following manuals ***shall*** be provided:
  - I. **Operator's Manual** - Operator's manual ***shall*** be provided in a bilingual format or as two manuals in a single binder (one English, one French). The operator's manual ***shall*** contain the following information:

1. Instructions for the safe operation of the vehicle;
  2. Daily operator maintenance instructions/checks (including lubrication);
  3. Safety warnings; and
  4. Hand signals (as necessary).
- II. Parts Manual - The Parts Manual **shall** be in English (French translation is desirable). The Parts Manual **shall** contain the following information:
1. Illustrations showing all components of the vehicle including equipment and accessories from other manufacturers that is supplied against the requirements of the contract. The illustrations **shall** have numbers for the itemization of the parts;
  2. A listing for all itemized parts showing the manufacturer's part numbers (including Original Equipment Manufacturer's) of the illustration, the part name, and a brief description of the item; and
  3. Cross reference relating all part numbers (including Original Equipment Manufacturer's) to the correct figure and item number.
- III. Maintenance (Shop Repair) Manual - The Maintenance (Shop Repair) Manual **shall** be provided in English (French translation is desirable). The Maintenance (Shop Repair) Manual **shall** contain the following information:
1. A trouble shooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of what steps would be required to correct a problem;
  2. A listing of the necessary tolerances, torque levels, and fluid volumes required.
  3. A section listing any special tools (including item part numbers) required **shall** be included; and
  4. Information on the order of disassembly and assembly of the systems and components of the vehicle.
- c. Equipment Manuals – All Equipment provided by the prime contractor and added to the vehicle **shall** have their own set of manuals. These **shall** include:
- I. Operating Instructions with all the elements given in paragraph 4.1.1.b.i and information on the operating instructions and configurations that provide stable operation of the all-terrain drop zone vehicle;
  - II. Parts Manual with all the elements given in paragraph 4.1.1.b.ii; and
  - III. Maintenance Manual (Shop Repair) with all the elements given in paragraph 4.1.1.b.iii.
- d. Manuals on CD/DVD-ROM - A copy of the manuals on CD/DVD-ROM **shall** be provided. This **shall** include all the manuals provided in clauses 4.1.1 (a) and (b) above. Manuals on CD/DVD-ROM **shall**<sup>(E)</sup> be interactive so that a maintainer can

troubleshoot, disassemble and determine the part numbers required with a minimum of searching. The manuals in electronic format **shall** include the ability for a full search. The Technical Authority **shall** approve the electronic manual format. Operators' manual(s) **shall** also be supplied in paper format. For usability, CD/DVD-ROM **shall not** require password and/or Internet connection to be accessed.

- e. **Sample Manuals** – The Contractor **shall** deliver a set of sample manuals, in electronic format only, including all documents in items 4.1.1 (a) and (b) above. The sample manuals **shall** be delivered to the LCMM. Sample manuals will not be returned. In the event that manuals are dependent on first vehicle completion, sample manuals **shall** be submitted within thirty (30) days after the pre-production vehicle approval or first production vehicle inspection. The Crown **shall** provide approval or comments on the manuals within thirty (30) days.

**NOTES:**

1. No information on methods or location for spare parts ordering **shall** be included in the manuals. Warranty Information in the manuals **shall** be identical to the warranty requirements of the contract.
2. The Government of Canada reserves the right to translate and reproduce, for government use only, all or any part of the publications supplied.
3. The Contractor is requested to maintain the delivery schedule of the manuals to the same as the vehicle/ equipment. In the event that the manuals are not available at time of shipment, provisional manuals **shall** accompany the vehicle/equipment. Provisional Manuals **shall** be clearly identified with the word "PROVISIONAL". Provisional manuals **shall** be replaced with approved manuals to all shipping locations within thirty (30) calendar days of receipt of approval of manuals.

**4.1.2 Documents Provided to Technical Authority**

The Contractor **shall** provide the following documents to the Technical Authority:

- a. **Data Summary** – A bilingual Data Summary for each make/model/ configuration by completing Technical Authority's template with data and a vehicle picture. The Contractor **shall** provide a Data Summary, if possible, before shipment of the vehicle.
- b. **Photographs** – Three (3) digital pictures, one left-front three-quarter view, one right-rear three-quarter view, and one of the control panel. It is preferred that pictures have an uncluttered background. Pictures **shall** have a size of at least 4 Mega pixels.
- c. **Recommended Spare Parts List** – The Contractor **shall** provide, to the Technical Authority, a list detailing the spare parts deemed necessary to maintain the vehicle for a period of 12 months exclusive of any warranty period, for each configuration. For each part listed, the following elements **shall** be included:
  - I. Part description;
  - II. Original Equipment Manufacturer;
  - III. Original Equipment Manufacturer Part Number;
  - IV. Suggested quantity; and
  - V. Unit cost.
- d. **List of Special Tools** – The Contractor **shall** provide a list detailing the special tools

required for the vehicle that would not be included in a mechanics toolbox. This would include items such as special wrenches or extraction devices and special diagnostic tools/software. For each item listed the following elements **shall** be included:

- I. Part description;
  - II. Original Equipment Manufacturer;
  - III. Original Equipment Manufacturer Part Number;
  - IV. Suggested quantity; and
  - V. Unit cost.
- e. **Preventive Maintenance Replacement Parts Kit List** - A list of parts and specialty tools needed to perform preventive maintenance on a vehicle/equipment during the first scheduled preventive maintenance. The list **shall** include the parts provided in the Initial Parts Kit and additional items recommended by the Original Equipment Manufacturer for review and acceptance by the Technical Authority. The list **shall** include the following elements:
- I. Part description;
  - II. Original Equipment Manufacturer Part number;
  - III. Suggested quantity; and
  - IV. Unit cost.

#### **4.2 Initial Parts Kit**

One Initial Parts Kit accompanying each vehicle/ equipment. Each Initial Parts Kit **shall** include a complete set of filters and filter elements from the Original Equipment Manufacturer.

#### **4.3 Training**

The Contractor **shall** perform the following training:

- a. **Training - Maintenance Personnel** - The Contractor **shall** provide a maintenance/repair training course. The course **shall** be given at the delivery destination. It **shall** have a minimum duration of one (1) day to provide training of up to eight (8) maintenance personnel and **shall** have the final dates arranged with the Life Cycle Material Manager (LCMM). The course **shall** have a syllabus or course outline and schedule available for review seven (7) days prior to the course commencement date. After completion of the course, the Contractor **shall** have a "PROOF OF MAINTAINER TRAINING" certificate signed by a Crown Representative for the destination. The Technical Authority **shall** supply this document in an electronic format. The following items **shall** be included in the curriculum:
- I. Operator's training detailed in 4.2(b)vi below;
  - II. Operation and maintenance safety precautions;
  - III. Preventive maintenance including servicing schedules (10 % of classroom time);
  - IV. Trouble shooting, testing, and adjustments (70 % of classroom time); and

V. Special tools and test equipment.

- b. Training - Operators - The Contractor ***shall*** provide an operator training course. The course ***shall*** be given at the delivery destination. It ***shall*** have minimum duration of one (1) day to provide training for up to six (6) DND operators and ***shall*** have the final dates arranged with the Life Cycle Material Manager (LCMM). The course ***shall*** have a syllabus or course outline and schedule available for review seven (7) days prior to the course commencement date. After completion of the course the Contractor ***shall*** have a “**PROOF OF OPERATOR TRAINING**” certificate signed by a Crown Representative for the destination. The Technical Authority ***shall*** supply this document in an electronic format. The following items ***shall*** be included in the curriculum:
- I. Safety precautions to be observed while operating and servicing the vehicle;
  - II. Vehicle/equipment operating characteristics;
  - III. Vehicle/equipment operating procedures;
  - IV. Pre-operating and pre-shutdown procedures;
  - V. Daily/weekly operator servicing procedures; and
  - VI. A minimum of two (2) hours practical operating experience, per operator.
- c. Training Materials – For all training provided by the Contractor, for each attendee, the Contractor ***shall*** provide training syllabi, which ***shall*** include, at least:
- I. A list of topics to be covered;
  - II. An approximate timetable showing when topics are scheduled to be covered and how much time is scheduled for each topic; and
  - III. Lists any reference material.
  - IV. Make available any reference material used.

ALL-TERRAIN AIR DROP ZONE LOAD RECOVERY VEHICLE  
ECC 140251

TECHNICAL INFORMATION QUESTIONNAIRE

This questionnaire covers technical information, which **shall** be provided for evaluation of the configuration(s) of the vehicle(s) offered.

Where the specification paragraphs below indicate "Proof of Compliance", the "Proof of Compliance" **shall** be provided for each performance requirement/specification.

Bidders should indicate the requested information and indicate the document name/title and page number where the Proof of Compliance can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the DEFINITIONS section at the end of this document.

CONTRACTOR INFORMATION

Contractor Name \_\_\_\_\_

Proposal Date \_\_\_\_\_

Substitutes/Alternatives

Are substitutes/alternatives offered as **Equivalent** to any requirement specified in the Purchase Description? YES  NO

If yes, please identify all substitutes/alternatives offered as **Equivalents** below and indicate where in the proposal related information can be found:

\_\_\_\_\_.

\_\_\_\_\_.

\_\_\_\_\_.

\_\_\_\_\_.

\_\_\_\_\_.

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\_\_\_\_\_.

\_\_\_\_\_.

ALL-TERRAIN AIR DROP ZONE LOAD RECOVERY VEHICLE  
ECC 140251

TECHNICAL INFORMATION QUESTIONNAIRE

Proposed Make \_\_\_\_\_ - Model \_\_\_\_\_

PURCHASE DESCRIPTION PARAGRAPHS

**3.1 Standard Design - Proof of Compliance**

- a. The Bidder ***shall*** provide client references as proof of compliance for industry acceptability and/or experience as specified in the purchase description. Client references ***shall*** include client contact information, delivery location, year completed and list of make(s)/model(s).

2 years industry acceptability and/or 5 years experience can be found in: Document: \_\_\_\_\_.

- Page: \_\_\_\_.

**3.5.1 Weight Ratings - Proof of Compliance**

The Bidder ***shall*** provide the following as proof of compliance: A computer generated weight analysis calculation which ***shall*** be calculated based on a fully loaded vehicle/equipment.

- a. GAWR:

Front axle weight (fully loaded) \_\_\_\_\_ , GAWR (front) \_\_\_\_\_.

Rear axle weight (fully loaded) \_\_\_\_\_ , GAWR (rear) \_\_\_\_\_.

If applicable: Second rear axle weight (fully loaded) \_\_\_\_\_ , GAWR (rear) \_\_\_\_\_.

Axle ratings can be found in: Document: \_\_\_\_\_ Page: \_\_\_\_.

Weight analysis can be found in: Document: \_\_\_\_\_ - Page: \_\_\_\_.

**3.5.2 Dimensions – Proof of Compliance**

The Bidder ***shall*** provide dimensioned drawings as proof of compliance for this requirement.

- a. Maximum overall vehicle length is \_\_\_\_\_ and can be found in:

Document: \_\_\_\_\_ - Page: \_\_\_\_.

- b. Maximum overall vehicle height is \_\_\_\_\_ and can be found in:

Document: \_\_\_\_\_ - Page: \_\_\_\_.

- c. Maximum overall vehicle width is \_\_\_\_\_ and can be found in:

Document: \_\_\_\_\_ - Page: \_\_\_\_.

**3.6 Performance - Proof of Compliance**

The Bidder ***shall*** provide the following as proof of compliance: vehicle performance prediction analysis a computer generated vehicle performance prediction analysis for a fully loaded vehicle which ***shall*** be performed in conformance with SAE J2188, using proposed equipment engine and transmission.

Vehicle performance prediction analysis can be found in: Document: \_\_\_\_\_ - Page: \_\_\_\_.

**3.7 Chassis - Proof of Compliance**

The Bidder ***shall*** provide a chassis suitability engineering certification as proof of compliance for this requirement.

Chassis suitability engineering certification can be found in: Document: \_\_\_\_\_ - Page: \_\_\_\_.

**3.8 Engine - Proof of Compliance**

The Bidder ***shall*** provide an engine manufacturer certification as proof of compliance for this requirement.

Engine manufacturer certification can be found in: Document: \_\_\_\_\_ - Page: \_\_\_\_.

**3.13 Cab - Proof of Compliance**

The bidder ***shall*** provide cab ROPS certification as proof of compliance for this requirement.

Cab ROPS compliance can be found in: Document: \_\_\_\_\_ - Page: \_\_\_\_.

**3.14 Deck - Proof of Compliance**

- a. The Bidder ***shall*** provide dimensioned lay-out drawings as proof of compliance for this requirement.

Dimensioned lay-out drawings can be found in: Document: \_\_\_\_\_ - Page: \_\_\_\_.

**3.16.1 Crane Capacity - Proof of Compliance**

Crane Make: \_\_\_\_\_.

Crane Model: \_\_\_\_\_.

- a. Minimum lift capacity at 9.14 m (30 ft) horizontal is \_\_\_\_\_ and can be found in:

Document: \_\_\_\_\_ - Page: \_\_\_\_.

- b. Minimum lift capacity at 20.72 m (68 ft) horizontal is \_\_\_\_\_ and can be found in:

Document: \_\_\_\_\_ - Page: \_\_\_\_.

**3.17 Winch - Proof of Compliance**

- a. Minimum bare drum line pull is \_\_\_\_\_ and can be found in: Document: \_\_\_\_\_ - Page: \_\_\_\_.

## **DEFINITIONS**

- 1.1 **“Proof of Compliance”** - An unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document **shall** provide detailed information on each performance requirement and/or specification. Where a document submitted as Proof of Compliance does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications **shall** be provided. The certificate **shall** detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.
- 1.2 **“Equivalent”** - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance.