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Note: The latest versions of the template and terms and conditions will be used at time of bid solicitation. A copy is available by contacting the Supply Arrangement Authority detailed under Part 6A section 6.5 Authorities.

ANNEX "D" – QUARTERLY REPORT

Note: The electronic version of the report (in Excel format .xls) will be provided by the Supply Arrangement (SA) Authority specified in Part 6A, section 6.5 Responsible at the time of the issuance of the SA.

PART 1 - GENERAL INFORMATION

1.1 Introduction

The Request for Supply Arrangements (RFSA) is divided into six parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Supplier Instructions: provides the instructions applicable to the clauses and conditions of the RFSA;
- Part 3 Arrangement Preparation Instructions: provides Suppliers with instructions on how to prepare the arrangement to address the evaluation criteria specified;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the arrangement and the basis of selection;
- Part 5 Certifications and Additional Information: includes the certifications and additional information to be provided; and
- Part 6 6A, Supply Arrangement, 6B, Bid Solicitation, and 6C, Resulting Contract Clauses:
 - 6A, includes the Supply Arrangement (SA) with the applicable clauses and conditions;
 - 6B, includes the instructions for the bid solicitation process within the scope of the SA;
 - 6C, includes general information for the conditions which will apply to any contract entered into pursuant to the SA.

The Annexes include Annexes A1 to A5 - Purchase Descriptions (PD), Annexes B1 to B5 - Technical Information Questionnaires (TIQ), Annex C – Request for Proposals Template and Annex D – Quarterly Report.

1.2 Summary

- 1.2.1** Canada is seeking to establish Supply Arrangements (SA) to procure heavy duty trailers under various Groups and Configurations in accordance with Annexes A1, A2, A3, A4 and A5 – Purchase Description.

Supplier may submit an arrangement for specific Configuration(s) (i.e.: Configuration “A” of Annex A1 only or Configurations “B” and “D” of Annex A3 only or Configuration “C” of Annex A2 and Configuration “B” of Annex A3 only, etc.). Suppliers must however ensure that all features and accessories within the Configuration(s) for which an arrangement is submitted are available when specified in the Solicitation.

The Supply Arrangements will be available to all Departments. The period of the Supply Arrangements will be from the date of issue to March 31, 2024 inclusively.

- 1.2.2** The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

- 1.2.3** The Request for Supply Arrangements (RFSA) is to establish supply arrangements for the delivery of the requirement detailed in the RFSA to the Identified Users across Canada, excluding locations within Yukon, Northwest Territories, Nunavut, Quebec, and Labrador that are subject to Comprehensive Land Claims Agreements (CLCAs). Any requirement for deliveries to locations within CLCAs areas within Yukon, Northwest Territories, Nunavut, Quebec, or Labrador will have to be treated as a separate procurement, outside of the resulting supply arrangements.

The Identified Users of the SAs will include any government department, agency or Crown Corporation listed in Schedules I, I.1, II, III, of the *Financial Administration Act*, R.S., 1985, c. F-11.

- 1.2.4** This RFSA allows suppliers to use the epost Connect service provided by Canada Post Corporation to transmit their arrangement electronically. Suppliers must refer to Part 2 of the RFSA entitled Supplier Instructions and Part 3 of the RFSA entitled Arrangement Preparation Instructions for further information on using this method.

1.3 Security Requirements

There is no security requirement applicable to the Supply Arrangement.

1.4 Debriefings

Suppliers may request a debriefing on the results of the request for supply arrangements process. Suppliers should make the request to the Supply Arrangement Authority within 15 working days of receipt of the results of the request for supply arrangements process. The debriefing may be in writing, by telephone or in person.

PART 2 - SUPPLIER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Supply Arrangements (RFSA) 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.

Suppliers who submit an arrangement agree to be bound by the instructions, clauses and conditions of the RFSA and accept the clauses and conditions of the Supply Arrangement and resulting contract(s).

The 2008 (2018-05-22) Standard Instructions - Request for Supply Arrangements - Goods or Services, are incorporated by reference into and form part of the RFSA.

Subsection 5.4 of 2008, Standard Instructions - Request for Supply Arrangements - Goods or Services, is amended as follows:

Delete: 60 days

Insert: 90 days

2.2 Submission of Arrangements

Arrangements must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated in the RFSA.

2.3 Evaluation Period

The evaluation of the arrangement submitted by suppliers will start on **April 15, 2019**. Throughout the period of the RFSA, arrangement will be evaluated upon reception.

2.4 Former Public Servant – Notification

Service contracts awarded to former public servants in receipt of a pension or a lump sum payment must bear the closest public scrutiny and reflect fairness in the spending of public funds. Therefore, the bid solicitation will require that you provide information that, were you to be the successful bidder, your status with respect to being a former public servant in receipt of a pension or a lump sum payment, will be required to report this information on the departmental websites as part of the published proactive disclosure reports generated in accordance with Treasury Board policies and directives on contracts with former public servants, Contracting Policy Notice 2012-2 and the Guidelines on the Proactive Disclosure of Contracts.

2.5 Federal Contractors Program for Employment Equity - Notification

The Federal Contractors Program (FCP) for employment equity requires that some contractors make a formal commitment to Employment and Social Development Canada (ESDC) - Labour to implement employment equity. In the event that this Supply Arrangement would lead to a contract subject to the Federal Contractors Program (FCP) for employment equity, the bid solicitation and resulting contract templates would include such specific requirements. Further information on the Federal Contractors Program (FCP) for employment equity can be found on Employment and Social Development Canada (ESDC) - Labour's website.

2.6 Enquiries - Request for Supply Arrangements

All enquiries must be submitted in writing to the Supply Arrangement Authority.

Suppliers should reference as accurately as possible the numbered item of the RFSA to which the enquiry relates. Care should be taken by Suppliers 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 question(s) or may request that Suppliers do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Suppliers. Enquiries not submitted in a form that can be distributed to all Suppliers may not be answered by Canada.

2.7 Applicable Laws

The Supply Arrangement (SA) and any contract awarded under the SA must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario

Suppliers may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of the arrangement, 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 Suppliers.

PART 3 - ARRANGEMENT PREPARATION INSTRUCTIONS

3.1 Arrangement Preparation Instructions

- If the Supplier chooses to submit its arrangement electronically, Canada requests that the Supplier submits its arrangement in accordance with section 08 of the 2008 standard instructions (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2008/18>). Suppliers are required to provide their arrangement in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

Canada request that the arrangement be gathered per section and separated as follows:

Section I: Technical Arrangement
Section II: Certifications

- If the Supplier chooses to submit its arrangement in hard copies, Canada requests that the Supplier submits its arrangement in separately bound sections as follows:

Section I: Technical Arrangement (2 hard copies)
Section II: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

- If the Supplier is simultaneously providing copies of its arrangement using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

Canada requests that suppliers follow the format instructions described below in the preparation of hard copy of their arrangement:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the RFSA.

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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, suppliers 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 Arrangement

In the technical arrangement, Suppliers should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Suppliers do not have to submit an arrangement for all Configurations. Each configuration will be evaluated individually.

Suppliers should complete and submit, with their bid, the following Technical Information Questionnaire(s) for the one or the multiple configurations for which an arrangement is being submitted:

- Annex B1 – Technical Information Questionnaire – HEAVY DUTY TRAILERS - GROUP 1 - SEMI-TRAILER, SLIDING AXLE; and/or
- Annex B2 – Technical Information Questionnaire – HEAVY DUTY TRAILERS - GROUP 2 - SEMI-TRAILER, VAN; and/or
- Annex B3 – Technical Information Questionnaire – HEAVY DUTY TRAILERS - GROUP 3 - SEMI-TRAILER, FLAT/STEP DECK; and/or
- Annex B4 – Technical Information Questionnaire – HEAVY DUTY TRAILERS - GROUP 4 - DOUBLE DROP TRAILER SYSTEM, 45 TONNES, WITH JEEP; and/or
- Annex B5 – Technical Information Questionnaire – HEAVY DUTY TRAILERS - GROUP 5 - SEMI-TRAILER, DOUBLE DROP.

Substitutes and Alternatives

Suppliers may propose substitutes and alternatives where "or equivalent" is indicated in the technical requirement description (Purchase Description). Suppliers are encouraged to offer or suggest green solutions whenever possible.

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

Section II: Certifications

Suppliers must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- a) Arrangements will be assessed in accordance with the entire requirement of the Request for Supply Arrangements including the technical evaluation criteria.
- b) An evaluation team composed of representatives of Canada will evaluate the arrangements.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Proof of Compliance

Suppliers must submit, with their arrangement, all proof of compliance required in the Annexes A - Purchase Descriptions and the Annexes B - Technical Information Questionnaires for each configuration for which an arrangement is being submitted.

4.1.1.2 Substitutes and/or Alternatives

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

4.2 Basis of Selection

An arrangement must comply with the requirements of the Request for Supply Arrangements and meet all mandatory technical evaluation criteria to be declared responsive. All responsive arrangements will be recommended for issuance of a supply arrangement.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Suppliers must provide the required certifications and additional information to be issued a supply arrangement (SA).

The certifications provided by Suppliers to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare an arrangement non-responsive, or will declare a contractor in default if any certification made by the Supplier is found to be untrue whether made knowingly or unknowingly during the arrangement evaluation period, or during the period of any supply arrangement arising from this RFSA and any resulting contracts.

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

5.1 Certifications Required with the Arrangement

Suppliers must submit (if applicable) the following duly completed certifications as part of their arrangement.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Supplier must provide with its arrangement the required documentation, as applicable), to be given further consideration in the procurement process.

5.2 Certifications Precedent to the Issuance of a Supply Arrangement and Additional Information

The certifications and additional information listed below should be submitted with the arrangement, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Supply Arrangement Authority will inform the Supplier of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the arrangement non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Supplier must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Product Conformance

The Supplier certifies that all vehicles/equipment proposed conform, and will continue to conform throughout the duration of the SA and of any resulting contract, to all technical specifications of the purchase description(s).

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

Supplier's authorized representative signature

Date

5.2.3 General Environmental Criteria Certification

The Supplier must select and complete one of the following two certification statements.

- A) The Supplier certifies that the Supplier is registered or meets ISO 14001.

Supplier's Authorized Representative Signature

Date

Or

- B) The Supplier certifies that the Supplier meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

The Supplier must indicate which four (4) criteria, as a minimum, are met.

Green Practices within the Suppliers' organization	Insert a checkmark for each criterion that is met
Promotes a paperless environment through directives, procedures and/or programs	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	

Supplier's Authorized Representative Signature

Date

PART 6 - SUPPLY ARRANGEMENT AND RESULTING CONTRACT CLAUSES

A. SUPPLY ARRANGEMENT

6.1 Arrangement

The Supply Arrangement covers the goods described in the Purchase Descriptions at Annexes A1, A2, A3, A4 and A5.

6.2 Security Requirements

There is no security requirement applicable to the Supply Arrangement.

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Supply Arrangement and resulting contract(s) 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.

6.3.1 General Conditions

2020 (2017-09-21) General Conditions - Supply Arrangement - Goods or Services, apply to and form part of the Supply Arrangement.

6.3.2 Supply Arrangement Reporting

The Offeror must compile and maintain records on its provision of goods, services or both to the federal government under contracts resulting from the Supply Arrangement. This data must include all purchases, including those paid for by a Government of Canada Acquisition Card.

The Offeror must provide this data, in electronic format, using Microsoft Excel (.xls) in accordance with the reporting requirements detailed in Annex "D" – Quarterly Report. If some data is not available, the reason must be indicated. If no goods or services are provided during a given period, the Offeror must still provide a "nil" report.

The data must be submitted on a quarterly basis to the Supply Arrangement Authority.

The quarterly reporting periods are defined as follows:

- 1st quarter: April 1 to June 30;
- 2nd quarter: July 1 to September 30;
- 3rd quarter: October 1 to December 31;
- 4th quarter: January 1 to March 31.

The data must be submitted to the Supply Arrangement Authority no later than thirty (30) calendar days after the end of the reporting period.

6.4 Term of Supply Arrangement

6.4.1 Period of the Supply Arrangement

The period for awarding contracts under the Supply Arrangement is from _____ to _____. *(To be inserted by PWGSC)*

6.4.2 Comprehensive Land Claims Agreements (CLCAs)

The Supply Arrangement (SA) is for the delivery of the requirement detailed in the SA to the Identified Users across Canada, excluding locations within Yukon, Northwest Territories, Nunavut, Quebec, and Labrador that are subject to Comprehensive Land Claims Agreements (CLCAs). Any requirement for deliveries to locations within CLCAs areas within Yukon, Northwest Territories, Nunavut, Quebec, or Labrador will have to be treated as a separate procurement, outside of the supply arrangement.

6.5 Authorities

6.5.1 Supply Arrangement Authority

The Supply Arrangement Authority is:

Name: Erik Martin
Title: Supply Specialist
Public Services and Procurement Canada
Acquisitions Branch
Directorate: LEFTD, HP Division
Address: 140 O'Connor, Ottawa, Ontario
Telephone: 613-296-7863
E-mail address: erik.martin@pwgsc-tpsgc.gc.ca

The Supply Arrangement Authority is responsible for the issuance of the Supply Arrangement, its administration and its revision, if applicable.

6.5.2 Technical Authority: *(to be inserted by PWGSC)*

The Technical Authority for the Contract is:

Name: _____ *(To be inserted by PWGSC at time of contract award.)*
Title: _____
Organization: _____

Telephone: ____ - ____ - ____
E-mail: _____

The Technical Authority named above 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.

6.5.3 Supplier's Representative

Name: _____ *(To be inserted by PWGSC at time of contract award.)*
Title: _____

Organization: _____

Telephone: _____ - _____ - _____

E-mail: _____

6.6 Identified Users

The Identified Users include any government department, agency or Crown Corporation listed in Schedules I, I.1, II, III, of the Financial Administration Act, R.S.C., 1985, c. F-11.

6.7 On-going Opportunity for Qualification

A Notice will be posted on the Government Electronic Tendering Service (GETS) to allow new Suppliers to become qualified. Existing qualified Suppliers, who have been issued a supply arrangement, will not be required to submit a new arrangement.

6.8 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 the Supply Arrangement;
- (b) the general conditions 2020 (2017-09-21), General Conditions - Supply Arrangement - Goods or Services
- (c) Annexes A1, A2, A3, A4, and A5 – Purchase Description;
- (d) Annexes B1, B2, B3, B4, and B5 – Technical Information Questionnaire;
- (e) the Supplier's arrangement dated _____ (*insert date of arrangement*) (*if the arrangement was clarified or amended, insert at the time of issuance of the arrangement: "as clarified on _____" or "as amended _____". (Insert date(s) of clarification(s) or amendment(s), if applicable).*

6.9 Certifications and Additional Information

6.9.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Supplier in its arrangement or precedent to issuance of the Supply Arrangement (SA), and the ongoing cooperation in providing additional information are conditions of issuance of the SA and failure to comply will constitute the Supplier in default. Certifications are subject to verification by Canada during the entire period of the SA and of any resulting contract that would continue beyond the period of the SA.

6.10 Applicable Laws

The Supply Arrangement (SA) and any contract resulting from the SA must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

6.11 Technical Changes, Substitutes and Alternatives

Any technical changes, substitutes and alternatives proposed by the Supplier 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 Supply Arrangement amendment will be issued.

Should the Technical Authority not accept the substitute or the alternative and the Supplier is unable to meet the technical requirement, Canada may terminate the Supply arrangement in accordance with the general conditions stated in the Request for Supply Arrangement.

6.12 Substitute Model

In the event that a model is discontinued, the Supplier must notify the Supply Arrangement Authority. The Supplier can offer, through the Supply Arrangement Authority, a substitute model for acceptance. The substitute model must meet all the technical requirements of the Purchase Description. An administrative revision will be done in the Supply Arrangement to reflect the change in model.

Should the substitute model not meet the technical requirement, the supplier has the right to submit another model for evaluation that they feel will satisfy the requirements. Until a substitute is approved by the Technical Authority, the supplier will not be allowed to bid on requests for that configuration.

6.13 Meeting after issuance of Supply Arrangement

Within ten (10) calendar days from the effective date of the SA, the Supplier must contact the Supply Arrangement Authority to determine if a meeting is required. A meeting will be convened at Canada's discretion. The Supplier 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 Supplier's facilities or at the Supply Arrangement Authority's facility or via teleconference, at Canada's discretion at no additional cost to Canada.

B. BID SOLICITATION

6.1 Bid Solicitation Documents

Canada will use the bid solicitation template at Annex "C". The latest versions of the template and terms and conditions will be used at time of bid solicitation. A copy is available by contacting the Supply Arrangement Authority detailed under Part 6.

6.2 Bid Solicitation Process

- 6.2.1** Bids will be solicited for specific requirements within the scope of the Supply Arrangement (SA) from all pre-qualified Suppliers who have been issued a SA under the RFSA #E60HP-19TRHV/A.
- 6.2.2** The bid solicitation will be sent directly to Suppliers. The bid solicitation period will be for a minimum of five (5) calendar days.
- 6.2.3** The identified users of the SA will be responsible for the bid solicitation process and the award of individual contracts for requirements not exceeding \$400K (including applicable taxes). PWGSC will be responsible for the bid solicitation process and award of individual contracts exceeding \$400K (including applicable taxes).
- 6.2.4** The following forms must be used for the first page of the bid solicitation document and the first page of the resulting contract document. These forms are available on the Electronic Forms Catalogues (http://publiservice-app.tpsgc-pwgsc.gc.ca/forms/text/search_for_forms-e.html) website.

PWGSC-TPSGC 9400-3, Bid Solicitation
PWGSC-TPSGC 9400-4, Contract

C. RESULTING CONTRACT CLAUSES

6.1 General

The conditions of any contract awarded under the Supply Arrangement will be in accordance with the resulting contract clauses of the template used for the bid solicitation.

For any contract to be awarded using the template, general conditions 2010A (2018-06-21) will apply to the resulting contract.

The latest versions of the template and terms and conditions will be used at time of bid solicitation. A copy is available by contacting the Supply Arrangement Authority detailed under Part 6A section 6.5 Authorities.

ANNEX A1
PURCHASE DESCRIPTION
HEAVY DUTY TRAILERS
GROUP 1 - SEMI-TRAILER, SLIDING AXLE

2019-02-12



NOTICE

This documentation has been reviewed by the **Technical Authority** and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'**Autorité technique** et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description defines the requirements for a sliding axle semi-trailer with accessories. The semi-trailer will be used to transport heavy equipment, ISO containers and vehicles. Main configurations are as follows:

Configuration A – Sliding Axle, 35 Ton payload, 53 ft, Tandem

Configuration B – Sliding Axle, 40 Ton payload, 53 ft, Tridem

1.2 **Instructions** – The following instructions apply to this Purchase Description:

- (a) Requirements, which are identified by the word “**must**”, are mandatory. Deviations will not be permitted;
- (b) Requirements identified by “**must**”..... or “**equivalent**” are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as a Technical Authority approved 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 “**must**”, “**must**”..... or “**equivalent**”, or “will” are not used, the information provided is for guidance only;
- (e) In this document “provided” means “provided and installed”;
- (f) Where a standard is specified and the Contractor has offered an **equivalent**, that equivalent standard **must** be supplied by the Contractor, at no cost to Canada, when authorized by the **Technical Authority**;
- (g) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **must** be provided for the semi-trailer when requested by the Technical Authority up until the date of the expiration of the warranty period;
- (h) While the SI system is used as the primary system of measurement to define requirements of this Purchase Description, both the SI system and the Standard system of measurements may be indicated. Conversions from one system of measurement to the other may not be exact; and

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- (i) Dimensions stated as nominal are 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**

- (a) **“Provided”** means “provided and installed”;
- (b) **“Technical Authority”** means the official responsible for the technical content of this Purchase Description;
- (c) **“Equivalent”** means a standard, means, or component type, which the Technical Authority has approved for this requirement as meeting the specified requirements for fit, form, function and performance;
- (d) **“Commercially Equipped”** means that the semi-trailer is provided in its standard commercial configuration with no additional government-specified requirements;
- (e) **“Road Legal”** means the semi-trailer can be legally operated on all Canadian highways and secondary roads, without restrictions or special permits;
- (f) **“Curb Weight”** (CW) means the weight of the fully equipped semi-trailer. The curb weight includes all attached accessories and equipment. The Curb Weight does not include the Payload;
- (g) **“Payload”** means the maximum cargo load carrying capacity of the semi-trailer. The payload is the calculated difference between the Gross Vehicle Weight Rating and the Curb Weight;
- (h) **“Gross Axle Weight Rating”** (GAWR) means the gross axle weight rating, which is the maximum axle load allowed by the manufacturer for this application; and
- (i) **“Gross Vehicle Weight Rating”** (GVWR) means the maximum operating weight of the semi-trailer as stated by manufacturer.

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1.4 **Data Table** - The following table shows the required performance and dimensions for each Configuration and includes paragraph references:

CHARACTERISTIC	PARA	UNITS	CONFIGURATION	
			A	B
TRAILER CAPACITY	3.4.2	kg	31,752	36,288
TRAILER LENGTH	3.4.3 (a)	mm	16,150	16,150
MAIN DECK LENGTH	3.4.3 (b)	mm	13,000	13,000
TRAILER WIDTH	3.4.3 (c)	mm	2,590	2,590
MAIN DECK HEIGHT	3.4.3 (d)	mm	965	965
KP DISTANCE	3.4.3 (e)	mm	533	533
KINGPIN OPERATING HEIGHT	3.4.3 (f)	mm	1,244	1,244
MIN LWC	3.4.3 (g)	mm	2,057	2,057
AXLES CONFIGURATION	3.6.1	-	Tandem	Tridem

1.4.1 **Accessory Table** - The following table indicates with an “X” and by Configuration, the features, accessories, additional items and training.

DESCRIPTION	PARA	CONFIGURATION	
		A	B
Wide Load Package	3.13.1	X	X
Maintenance Manual – English	4.1.2 (e)	X	X
Maintenance Manual – French	4.1.2 (f)	X	X
Parts Manual	4.1.2 (g)	X	X
Training – Familiarization – English	4.2 (a)	X	X
Training – Familiarization – French	4.2 (b)	X	X

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2. APPLICABLE DOCUMENTS - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

SAE World Headquarters
400 Commonwealth Dr.,
Warrendale, PA, 15096-0001
<http://www.sae.org>

Canada Motor Vehicle Safety Act (CMVSA)

Government of Canada / Transport Canada,
<http://www.tc.gc.ca/eng/acts-regulations/acts-1993c16.htm>

Federal Standard 595C

COLOURS USED IN GOVERNMENT PROCUREMENT
U.S. General Services Administration
<http://www.fed-std-595.com/FS-595-Paint-Spec.html>

3. REQUIREMENTS

3.1 Standard Design

- (a) The semi-trailer *must* be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of equipment for at least three (3) years;
- (b) The semi-trailer *must* include all components, equipment and accessories normally supplied for this application, although they may not be specifically described in this Purchase Description;
- (c) The semi-trailer *must* have engineering certification available, upon request, for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The semi-trailer *must* conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The semi-trailer and accessories *must* operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather

- (a) The semi-trailer *must* operate safely and effectively throughout a temperature range of -40° to 37° C, without degradation in performance, reliability and maintainability.

3.2.2 Terrain

- (a) The semi-trailer *must* operate safely and effectively on paved roads, gravel roads and dirt roads with severe washboard and pot holes, in all-weather conditions and with the stated payload, without degradation in performance, reliability and maintainability.

3.3 Safety Standards

3.3.1 Vehicle Safety Regulations

- (a) The semi-trailer *must* meet the provisions of the Canada Motor Vehicle Safety Act.

3.3.2 Hazardous Materials

- (a) The Contractor *must* minimize or eliminate the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals (as described in the Hazardous Products Act of Canada) when manufacturing the semi-trailer.

3.3.3 Safety Features

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- (a) The trailer system *must* be provided with the safety features such as warning and instruction plates, non-slip walking surfaces and heat shields where required for operator safety.

3.4 Performance

3.4.1 Trailer Performance

- (a) The semi-trailer *must* be towed safely at a continuous speed of at least 105 km/h with the stated payload.

3.4.2 Load Performance

- (a) The semi-trailer *must* carry a uniformly distributed load of at least that given as “**TRAILER CAPACITY**” in the Data Table (Paragraph 1.4).

3.4.3 Dimensions

- (a) The semi-trailer *must* have a nominal overall length of that given as “**TRAILER LENGTH**” in the Data Table (Paragraph 1.4);
- (b) The semi-trailer main deck *must* have a minimum length of that given as “**MAIN DECK LENGTH**” in the Data Table (Paragraph 1.4);
- (c) The semi-trailer *must* have a nominal overall width of that given as “**TRAILER WIDTH**” in the Data Table (Paragraph 1.4);
- (d) The semi-trailer main deck, un-laden, *must* have a nominal height of that given as “**MAIN DECK HEIGHT**” in the Data Table (Paragraph 1.4);
- (e) The semi-trailer *must* have a kingpin distance (KP) of that given as “**KP DISTANCE**” in the Data Table (Paragraph 1.4), measured from the front of the trailer to the centre of the kingpin;
- (f) The semi-trailer *must* operate with the kingpin at a height of that given as “**KINGPIN OPERATING HEIGHT**” in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate; and
- (g) The semi-trailer *must* have a minimum landing wheel clearance from kingpin (LWC) of that given as “**MIN LWC**” in the Data Table (Paragraph 1.4).

3.5 Semi-Trailer Construction

3.5.1 Kingpin

- (a) The semi-trailer *must* be provided with a 51mm (2in) kingpin.

3.5.2 Semi-Trailer Frame

- (a) The semi-trailer *must* be provided with a frame that is reinforced for towing points.

3.5.3 Decking Floor

- (a) The semi-trailer main and upper decks *must* be provided with full and continuous flooring consisting of replaceable wood planks of sufficient thickness to accommodate the load;

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- (b) The wood planks **must** be treated with Linseed oil or **equivalent** weather proofing treatment; and
- (c) All trailer wheel openings **must** be covered as those areas will be used to transport vehicles and cargo; checker plates are permitted to be part of the main deck surface where required.

3.5.4 Towing points

- (a) The semi-trailer **must** be provided with two (2) rear-mounted towing points, positioned and of sufficient strength to permit recovery of the loaded semi-trailer.

3.5.5 Railway tie-down points

- (a) The semi-trailer **must** be provided with railway tie-down points, positioned and of sufficient strength to permit the securing and transportation of the loaded semi-trailer on a railroad car.

3.5.6 Deck-mounted D-Rings

- (a) The semi-trailer **must** be provided with deck-mounted D-Rings along the main and upper decks, with a minimum rated capacity of 8,700 kg each;
- (b) The D-rings **must** be evenly spaced, with three (3) D-rings located on each side of the upper deck, and twelve (12) D-rings located on each side of the main deck;
- (c) The deck-mounted D-Rings **must** be recessed and flush-mounted to the main deck, with drain holes; and
- (d) The deck-mounted D-Rings **must** be as close as possible to the edge, with a maximum of 203 mm from the side of the semi-trailer.

3.5.7 Side-mounted tie-down points

- (a) The semi-trailer main deck **must** be provided with twenty six (26) tie-down points, mounted to the side of the main deck, divided equally between the LH and RH sides of the semi-trailer; and
- (b) Each side-mounted tie-down point **must** have a rating of at least 8,700 kg.

3.5.8 Stake Pockets

- (a) The semi-trailer **must** be provided with thirty (30) stake pockets, divided equally between the LH and RH sides of the semi-trailer, with four (4) stake pockets located on the upper deck, and the remainder of the stake pockets located on the main deck.

3.5.9 Chain Slots

- (a) The semi-trailer **must** be provided with thirty (30) double-keyhole chain slots, divided equally between the LH and RH sides of the semi-trailer; and

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- (b) The chain slots *must* be located on the deck surface, near the edge and evenly spaced, with four (4) chain slots located on the upper deck, and the remainder of the chain slots located on the main deck.

3.5.10 Bushings/Pins

- (a) The semi-trailer *must* be provided with replaceable and/or grease-able bushings at all pin and pivot holes; and
- (b) All pins *must* have grooved/spiralled surfaces to allow grease to encircle the pin and reach the end plate.

3.6 Chassis and Auxiliary Systems

3.6.1 Axles

- (a) The semi-trailer *must* be provided with the axle configuration as specified as “**AXLES CONFIGURATION**” in the Data Table (Paragraph 1.4); and
- (b) The axles *must* be of appropriate capacity to carry the maximum payload specified in this document.

3.6.2 Suspension

- (a) The semi-trailer *must* be provided with an air bag suspension system;
- (b) The suspension system *must* include an automatic height control valve;
- (c) The suspension system *must* include a manual suspension air dump valve;
- (d) The suspension system *must* include shock absorbers acting on all wheel stations;
- (e) The suspension system *must* include an air gauge to assist the operator in determining system pressure; and
- (f) The suspension system *must* have suspension travel limiters, such as cables or chains fastened to the suspension beam or axle and the under frame, at a length equal to or less than the shock absorber extended stroke; the use of the shock absorbers as travel limiters is not acceptable.

3.6.3 Wheels and Tires

- (a) The semi-trailer *must* be provided with dual wheels and tires certified by the manufacturer to be suitably sized and rated for the application and load;
- (b) The dual-wheel assemblies *must* be identical across the trailer system;
- (c) The semi-trailer *must* be provided with written indications of the operating tire pressure at each wheel station;
- (d) The wheels *must* be provided with loose wheel nut indicators at each wheel station; and
- (e) The semi-trailer *must* be provided with a hub-odometer reading in kilometres.

3.6.4 Brake System

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- (a) The semi-trailer *must* be provided with an anti-lock, air disc brake system;
- (b) The brake system *must* be provided with remote, cable operated drain valves on the air reservoirs, with heated moisture expelling valve(s);
- (c) The brake housings *must* be equipped with dust shields;
- (d) The semi-trailer *must* be provided with colour coded glad hand couplers for interconnection between semi-trailer and tractor; and
- (e) The semi-trailer *must* be provided with dummy glad hand coupler covers, including a safety chain/cable for each glad hand, to block and protect the air-lines when they are not in use.

3.6.5 Landing Gear

- (a) The semi-trailer *must* be provided with an interconnected two-legged, two-speed, landing gear system with self-levelling landing pads; and
- (b) The landing gear system *must* withstand the weight of the fully loaded semi-trailer when not connected to the tractor.

3.7 Hydraulic System

- (a) The semi-trailer *must* be provided with a hydraulic system that supplies hydraulic power for all the functions on the semi-trailer;
- (b) The hydraulic system controls *must* be located in an illuminated compartment on the roadside of the gooseneck;
- (c) The hydraulic system reservoir tank *must* be provided with an intake filter screen, an external fluid level indicator, and an inspection plate located on top of the tank;
- (d) The hydraulic system *must* be provided with two (2) hydraulic filters, one for the pressure line and the other for the return line;
- (e) The hydraulic system *must* be provided with wet kit connectors (supply and return lines) located at the front of the gooseneck to operate all hydraulic components of the semi-trailer;
- (f) All hoses that are subject to moving with the axles *must* be encased in a flexible E-chain; and
- (g) The hydraulic system *must* be provided with a six-function wireless remote control unit.

3.8 Auxiliary Engine System

- (a) The semi-trailer *must* be provided with one (1) auxiliary engine system to power the hydraulic system;
- (b) The engine *must* operate on gasoline fuel;
- (c) The engine *must* be mounted on appropriate mounts to reduce vibration;
- (d) The engine *must* be enclosed in a compartment;

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- (e) Engine controls and instrument gauges *must* be enclosed in a weatherproof compartment on the roadside of the gooseneck;
- (f) The engine oil pan *must* be provided with a magnetic drain plug;
- (g) The engine exhaust *must* be shielded to prevent inadvertent contact with heated surfaces and directed away from the semi-trailer;
- (h) The engine *must* be provided with a manual fuel shut-off valve;
- (i) **Shut-Down Protection**
 - i The engine system *must* be provided with an automatic low oil pressure shutdown device; and
 - ii The engine system *must* be provided with an automatic high temperature shutdown device.
- (j) **Battery**
 - i The engine system *must* be provided with a maintenance-free battery; and
 - ii The battery *must* be enclosed in a weatherproof compartment.
- (k) **Electrical System**
 - i The engine system *must* have a keyless “stop/start” switch; and
 - ii The engine system *must* be provided with an alternator that supports all operating loads and maintains the battery fully charged.
- (l) **Fuel Tank**
 - i The engine system *must* be provided with a fuel tank; and
 - ii The fuel tank *must* be provided with a fuel gauge.
- (m) **Instruments**
 - i The engine system *must* be provided with an hour meter with integral back lighting;
 - ii The engine system *must* be provided with a temperature gauge with integral back lighting;
 - iii The engine system *must* be provided with an oil pressure gauge with integral back lighting; and
 - iv The engine system *must* be provided with a voltmeter or ammeter with integral back lighting.
- (n) **Filtration Systems**
 - i The engine system *must* be provided with dry type air filter with replaceable element(s); and
 - ii The engine system *must* be provided with spin-off replaceable oil and fuel filters.

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(o) **Engine Compartment**

- i The engine compartment *must* be accessible while the semi-trailer is loaded;
- ii The engine compartment access door(s) *must* be mounted on hinges to allow the doors(s) to be swung open sideways or upwards;
- iii The door(s) *must* be provided with a positive means to remain open while the operator is working on the engine;
- iv The door(s) *must* be lockable;
- v The compartment *must* have louvers to allow air flow into the engine compartment; and
- vi The engine compartment *must* be provided with working lights.

3.9 **Hydraulic Winch**

- (a) The semi-trailer *must* be provided with a two-speed, planetary, hydraulic winch to load vehicles onto the main deck;
- (b) The winch *must* be located at the front of the semi-trailer;
- (c) The winch first layer capacity *must* be a minimum of 13,608 kg;
- (d) The winch cable *must* have a minimum length of 38.5 m;
- (e) The winch *must* be provided with dual slope winch cable rollers at the front of the gooseneck;
- (f) The winch *must* be provided with an air-operated cable tensioner;
- (g) The winch *must* be provided with an air-operated winch free-wheel;
- (h) The winch *must* be provided with a remote control to operate the winch from a distance; and
- (i) The winch *must* be provided with a four (4) roller fairlead.

3.10 **Electrical System**

- (a) The semi-trailer *must* be provided with a 12-volt negative ground electrical system;
- (b) The electrical system *must* provide all power and control for the semi-trailer lighting and anti-lock brake system, while the semi-trailer is connected to the prime mover;
- (c) The electrical system *must* include a SAE J560 7-pin 12 volt semi-trailer receptacle, located in accordance with SAE J702;
- (d) The electrical system *must* include, as a minimum, electrical wiring used for the connection to the tractor vehicle intended for heavy-duty use, with positive engaging connectors, which are mounted securely to the system components;
- (e) Wiring *must* be protected by grommets when passing through metal;

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- (f) The harnesses *must* be sealed harnesses and all connections treated with dielectric grease; and
- (g) All electrical components *must* be accessible for servicing.

3.11 **Lighting**

- (a) The semi-trailer *must* be provided with a lighting system conforming to CMVSS requirements;
- (b) The semi-trailer *must* be provided with LED body lighting;
- (c) Lights and reflectors *must* be recessed or otherwise protected from damage; and
- (d) The semi-trailer *must* be provided with two (2) detachable amber strobe lights, one (1) at each rear corner, which activate when the trailer running lights are activated.

3.12 **Miscellaneous Equipment**

3.12.1 **Dock Bumpers**

- (a) The semi-trailer *must* be provided with heavy-duty rubber dock bumpers at the rear corners, measuring nominally 102 mm (4 in) deep.

3.12.2 **Rear Bumper**

- (a) The semi-trailer *must* be provided with a rear bumper per CMVSS.

3.12.3 **Storage Compartments**

- (a) The semi-trailer *must* be provided with two (2) lockable storage compartments;
- (b) The compartments *must* be of sufficient size to accommodate spare straps, chains and fluids;
- (c) The compartment floors *must* be covered with a durable surface, such as DRI decking, to help keep contents dry;
- (d) The compartment floors *must* be equipped with drain holes; and
- (e) The compartments *must* be located as per the Contractor's standard location.

3.12.4 **Spare Wheel Assemblies with Storage**

- (a) The semi-trailer *must* be provided with one (1) spare tire/wheel assembly; and
- (b) The spare tire/wheel assemblies *must* be mounted at the Contractor's standard location.

3.12.5 **Mud Flaps**

- (a) The semi-trailer *must* be provided with mud flaps located behind the rear axle; and
- (b) The mud flaps *must* be made of plain black rubber with no logos displayed.

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3.12.6 License Plate Holder

- (a) The semi-trailer *must* be provided with an illuminated license plate holder located at the rear.

3.12.7 Conspicuity Tape

- (a) The semi-trailer *must* be provided with conspicuity tape conforming to CMVSS requirements.

3.12.8 Document Holder

- (a) The semi-trailer *must* be provided with a document holder, located on the road side at the front.

3.12.9 Identification Plate

- (a) The semi-trailer *must* be provided with an identification plate containing the following information as a minimum:
- i Manufacturer, model, model year and serial number of the semi-trailer; and
 - ii GAWR and GVWR ratings;
- (b) The maximum payload capacity *must* be permanently and clearly marked in a location near the identification plate.

3.13 Accessories The accessories listed in the following paragraphs *must* be provided with the semi-trailer when specified in the solicitation.

3.13.1 Wide Load Package

(a) Side Extensions

- i The semi-trailer *must* be provided with side extensions on both sides of the main deck;
- ii The side extensions *must* cover the whole length of the main deck;
- iii The side extensions *must* add a minimum width of 254 mm to each side of the main deck;
- iv The side extensions *must* be covered with removable wood planking that is similar to the main deck;
- v The wood planking *must* be equal in length to the main deck;
- vi The side extensions *must* have a total load capacity equivalent to the main deck area;
- vii The side extensions *must* be provided with a device to secure them in place while being used; and
- viii The side extension *must* be stowed away to a secured position and be flush or below the top surface of the main deck.

(b) Wide Load Sign

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- i The semi-trailer *must* be provided with one (1) wide load sign and placard holder located at the rear of the trailer.

(c) Flag Holders

- i The semi-trailer *must* be provided with four (4) flag holders located at the front and rear corners of the semi-trailer.

(d) Lighting

- i The semi-trailer *must* be provided with one (1) strobe light for the wide load sign, which activates when the trailer running lights are activated; and
- ii The semi-trailer *must* be provided with wide load pull-out lights located at the front and rear corners of the semi-trailer.

3.14 **Paint and Corrosion Protection System**

3.14.1 **Paint**

- (a) The semi-trailer *must* be painted in accordance with the manufacturer's best production procedures using standard commercial practices and materials, rendering a durable finish of the required film thickness and a smooth appearance free from runs, sags and orange peel;

(b) DND Users

- i The paint finish *must* be Olive Drab Green 34094 in accordance with FED STD 595C; and
- ii Additional lettering and symbols on the outside of the semi-trailer *must* be flat black.

(c) Non-DND Users

- i The paint finish *must* be flat black; and
- ii Additional lettering and symbols on the outside of the semi-trailer *must* be high contrast colour.

3.14.2 **Corrosion Protection System**

(a) **Galvanic Corrosion**

- i The semi-trailer *must* be protected against galvanic corrosion where dissimilar metals are used.

(b) **Rust Prevention Coating**

- i The semi-trailer *must* be provided with a rust prevention coating to the underbody, in addition to the standard factory rustproofing;
- ii The rust prevention coating product applied *must* be Tectyl, Krown or Rust Check;
- iii A decal *must* be affixed to the semi-trailer displaying the type of rust prevention coating used; and

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- iv Warranty papers covering the rust prevention coating *must* accompany the semi-trailer.

3.15 **Warning and Instruction Plates**

- (a) The warning and instruction plates *must* be within easy view of the user and in accordance with standard commercial practice;
- (b) The warning and instruction plates *must* be international symbols and/or bilingual (English and French) markings; and
- (c) Instruction plates *must* include engine operating instructions and any other special procedures for operating the semi-trailer.

3.16 **Semi-Trailer Delivery Condition**

- (a) The semi-trailer *must* be delivered to destination in a fully operational condition (serviced and adjusted);
- (b) The semi-trailer *must* be completely cleaned; and
- (c) The semi-trailer *must* be serviced with standard lubricants and fluids that are compatible with the delivery location and season.

4. **INTEGRATED LOGISTIC SUPPORT**

4.1 **Contractor Documentation and Logistic Items**

4.1.1 **Documents to Technical Authority (Designated Contact) on Contract**

(a) **Manuals for Approval (DND Only)**

- i The Contractor **must** supply a set of manuals for each Configuration/model, in digital format, including the operator, parts and maintenance (shop repair) manuals. It is acceptable that manuals include more than one Configuration/model.
- ii The set of manuals **must** include manuals for all the specified accessories and features for the configuration/model. Accessory manuals may be included as supplements to the vehicle manuals.
- iii Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- iv Digital copies **must** be supplied on a CD or DVD.
- v Digital copies **must** be supplied in a searchable PDF format.
- vi A separate CD/DVD **must** be supplied for each Configuration/ Make/ Model with all accessories.
- vii The CD or DVD **must** be permanently and legibly marked with a list of contents.
- viii Manuals will not be returned.
- ix Manual approval, request for additional documentation or request for amendments will be supplied within 15 working days of receipt.
- x The Contractor **must** supply the additional documentation or implement the changes as requested by the **Technical Authority**.
- xi Paper copies of manuals delivered under this contract **must** have the same content as the electronic format approved by the **Technical Authority**.

(b) **Photographs and Line Drawings (DND Only)**

- i The Contractor **must** supply two (2) digital colour photographs, one left-front three-quarter full vehicle view, and one right-rear three-quarter full vehicle view of each Configuration/model;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;
- iii One front-view and one side-view line drawing showing dimensions of the vehicle **must** be supplied. Brochure line drawings are acceptable;
- iv Photographs **must** an plain background;

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- v Photographs *must* be in a JPEG (Joint Photographic Experts Group) format; and
 - vi Photographs *must* have a resolution of at least eight (8) Mega pixels.
- (c) **Load Analysis Drawing (DND Only)**
- i The Contractor *must* provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and
 - ii The load analysis drawing *must* be in PDF format supplied on a CD or a DVD.
- (d) **Data Summary (DND Only)**
- i The Contractor *must* supply a bilingual data summary for each Configuration/model, with vehicle data (including accessories and features) and a vehicle picture, for each DND contract;
 - ii The **Technical Authority** will supply a bilingual template of a data summary to the Contractor;
 - iii The Contractor *must* submit a digital copy (MS Word) of the completed data summary for approval;
 - iv Data summary approval or comments will be supplied within 15 working days of receipt; and
 - v The Contractor *must* provide responses to the **Technical Authority's** comments.
- (e) **Warranty Letter (All Users)**
- i The **Technical Authority** will supply a current bilingual warranty letter template to the Contractor;
 - ii The Contractor *must* supply a complete description of the warranty with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested;
 - iii The warranty letter *must* include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
 - iv The Contractor *must* supply a copy of the warranty letter, in PDF digital format, for each vehicle delivered, to the **Technical Authority** or the designated contact for non-DND users.
- (f) **Safety Data Sheets (DND Only)**
- i The Contractor *must* supply a list, in digital format, of all hazardous materials used on the vehicle;
 - ii If there are no hazardous materials are used, this *must* be stated on the list; and

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- iii The Contractor *must* supply safety data sheets of all hazardous materials in the list.

4.1.2 **Items Supplied with Each Vehicle**

(a) **Operator's Manual(s)**

- i The Contractor *must* supply the *Technical Authority* approved bilingual operator's manual(s) in both paper and searchable PDF digital format with each vehicle delivered.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(b) **Warranty Letter(s)** - The Contractor *must* supply a paper copy of the warranty letter(s) with each vehicle delivered;

(c) **Safety Data Sheets**

- i The Contractor *must* supply a set of material safety data sheets; and
- ii The safety data sheets *must* be the same as those supplied to the **Technical Authority** (paragraph 4.1.1 (f)).

(d) **Line Setting Ticket**

- i The Contractor *must* produce a Line Setting Ticket, or equivalent, describing the components provided on the semi-trailer.
- ii The Contractor *must* supply the *Technical Authority* a Line Setting Ticket in both paper and searchable PDF digital format with each vehicle delivered.
- iii Digital copies *must* be supplied on a CD or a DVD.
- iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(e) **Maintenance Manual(s) - English**

- i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in English, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

- iv The Contractor may supply this deliverable as a bilingual package.

(f) **Maintenance Manual(s) – French**

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- i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in French, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- iv The Contractor may supply this deliverable as a bilingual package.

(g) **Parts Manual(s)**

- i The Contractor *must* supply the *Technical Authority* approved parts manual(s) in paper and searchable digital format, for the vehicle, features and accessories.
- ii The parts manual(s) *must* be in English.
- iii Digital copies *must* be supplied on a CD or a DVD.
- iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- v It is desirable to provide the parts manual(s) in French in addition to the English version.

4.2 **Training**

(a) **Training – Familiarization - English**

- i The Contractor *must* supply a familiarization course in English;
- ii The instructor *must* be an OEM Factory Certified Training Provider;
- iii The familiarization course *must* include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use and maintenance of all accessories supplied;
- iv The instructor *must* supply responses to questions;
- v The familiarization course *must* have a minimum duration of four (4) hours;
- vi The familiarization course *must* accommodate up to eight (8) personnel;
- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified

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user or designated contact person for vehicles shipped for users other than DND;

- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

(b) **Training – Familiarization - French**

- i The Contractor *must* supply a familiarization course in French;
- ii The instructor *must* be an OEM Factory Certified Training Provider;
- iii The familiarization course *must* include operation and maintenance segments demonstrating, all safety measures required for safe vehicle use, instructions on the use of all accessories supplied and maintenance;
- iv The instructor *must* supply responses to questions;
- v The familiarization course *must* have a minimum duration of four (4) hours;
- vi The familiarization course *must* accommodate up to eight (8) personnel;
- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped for users other than DND;
- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

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NOTICE

This documentation has been reviewed by the **Technical Authority** and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'**Autorité technique** et ne contient pas de marchandises contrôlées.

1. SCOPE

1.1 **Scope** - This Purchase Description defines the requirements for a semi-trailer van with accessories. The configurations are as follows:

- Configuration A – Van, Dry, 30Ton, 53 ft, Tandem
- Configuration B – Van, Dry, 35Ton, 53 ft, Tridem
- Configuration C – Van, Reefer, 30Ton, 53 ft, Tandem
- Configuration D – Van, Reefer, 35Ton, 53 ft, Tridem

1.2 **Instructions** – The following instructions apply to this Purchase Description:

- (a) Requirements, which are identified by the word “**must**”, are mandatory. Deviations will not be permitted;
- (b) Requirements identified by “**must**”..... or “**equivalent**” are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as a Technical Authority approved 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 “**must**”, “**must**”..... or “**equivalent**”, or “will” are not used, the information provided is for guidance only;
- (e) In this document “provided” means “provided and installed”;
- (f) Where a standard is specified and the Contractor has offered an **equivalent**, that equivalent standard **must** be supplied by the Contractor, at no cost to Canada, when authorized by the **Technical Authority**;
- (g) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **must** be provided for the semi-trailer when requested by the Technical Authority up until the date of the expiration of the warranty period;
- (h) While the SI system is used as the primary system of measurement to define requirements of this Purchase Description, both the SI system and the Standard system of measurements may be indicated. Conversions from one system of measurement to the other may not be exact; and

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- (i) Dimensions stated as nominal are 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**

- (a) “**Provided**” means “provided and installed”;
- (b) “**Technical Authority**” means the official responsible for the technical content of this Purchase Description;
- (c) “**Equivalent**” means a standard, means, or component type, which the Technical Authority has approved for this requirement as meeting the specified requirements for fit, form, function and performance;
- (d) “**Commercially Equipped**” means that the semi-trailer is provided in its standard commercial configuration with no additional government-specified requirements;
- (e) “**Road Legal**” means the semi-trailer can be legally operated on all Canadian highways and secondary roads, without restrictions or special permits;
- (f) “**Curb Weight**” (CW) means the weight of the fully equipped semi-trailer. The curb weight includes all attached accessories and equipment. The Curb Weight does not include the Payload;
- (g) “**Payload**” means the maximum cargo load carrying capacity of the semi-trailer. The payload is the calculated difference between the Gross Vehicle Weight Rating and the Curb Weight;
- (h) “**Gross Axle Weight Rating**” (GAWR) means the gross axle weight rating, which is the maximum axle load allowed by the manufacturer for this application; and
- (i) “**Gross Vehicle Weight Rating**” (GVWR) means the maximum operating weight of the semi-trailer as stated by manufacturer.

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1.4 **Data Table** - The following table shows the required performance and dimensions for each Configuration and includes paragraph references:

CHARACTERISTIC	PARA	UNITS	CONFIGURATION			
			A	B	C	D
TRAILER CAPACITY	3.4.2	kg	27,216	31,752	27,216	31,752
TRAILER LENGTH	3.4.3 (a)	mm	16,150	16,150	16,150	16,150
TRAILER WIDTH	3.4.3	mm	2,590	2,590	2,590	2,590
TRAILER HEIGHT	3.4.3 (c)	mm	4,100	4,100	4,100	4,100
INTERIOR BODY HEIGHT	3.4.3	mm	2,667	2,667	2,500	2,500
KINGPIN DISTANCE	3.4.3 (e)	mm	914	914	914	914
KINGPIN HEIGHT	3.4.3 (f)	mm	1,219	1,219	1,219	1,219
MIN LWC	3.4.3	mm	2,700	2,700	2,700	2,700
AXLES CONFIGURATION	3.6.1 (a)	-	Tandem	Tridem	Tandem	Tridem

1.4.1 **Accessory Table** - The following table indicates with an “X” and by Configuration, the features, accessories, additional items and training.

DESCRIPTION	PARA	CONFIGURATION			
		A	B	C	D
Roll-up Door (in lieu)	3.5.6.1 (i) i	X	X		
Wide Base Single Wheels and Tires (in lieu)	3.6.3.1 (a)	X	X	X	X
Aerodynamic Side Skirts	3.10.1	X	X	X	X
Dangerous Goods Placard Holders	3.10.2	X	X	X	X
Tuck-Under Electro Hydraulic Tailgate	3.10.3	X	X	X	X
Maintenance Manual – English	4.1.2 (e)	X	X	X	X
Maintenance Manual – French	4.1.2 (f)	X	X	X	X
Parts Manual	4.1.2 (g)	X	X	X	X
Training – Familiarization – English	4.2 (a)	X	X	X	X
Training – Familiarization – French	4.2 (b)	X	X	X	X

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2. APPLICABLE DOCUMENTS - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

SAE World Headquarters
400 Commonwealth Dr.,
Warrendale, PA, 15096-0001
<http://www.sae.org>

Canada Motor Vehicle Safety Act (CMVSA)

Government of Canada / Transport Canada,
<http://www.tc.gc.ca/eng/acts-regulations/acts-1993c16.htm>

3. REQUIREMENTS

3.1 Standard Design

- (a) The semi-trailer *must* be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of equipment for at least three (3) years;
- (b) The semi-trailer *must* include all components, equipment and accessories normally supplied for this application, although they may not be specifically described in this Purchase Description;
- (c) The semi-trailer *must* have engineering certification available, upon request, for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The semi-trailer *must* conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The semi-trailer and accessories *must* operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather

- (a) The semi-trailer *must* operate safely and effectively throughout a temperature range of -40° to 37° C, without degradation in performance, reliability and maintainability.

3.2.2 Terrain

- (a) The semi-trailer *must* operate safely and effectively on paved roads, gravel roads and dirt roads with severe washboard and pot holes, in all-weather conditions and with the stated payload, without degradation in performance, reliability and maintainability.

3.3 Safety Standards

3.3.1 Vehicle Safety Regulations

- (a) The semi-trailer *must* meet the provisions of the Canada Motor Vehicle Safety Act.

3.3.2 Hazardous Materials

- (a) The Contractor *must* minimize or eliminate the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals (as described in the Hazardous Products Act of Canada) when manufacturing the semi-trailer.

3.3.3 **Safety Features**

- (a) The trailer system *must* be provided with the safety features such as warning and instruction plates, non-slip walking surfaces and heat shields where required for operator safety.

3.4 **Performance**

3.4.1 **Trailer Performance**

- (a) The trailer system *must* be towed safely at a continuous speed of at least 105 km/h with the stated payload.

3.4.2 **Load Performance**

- (a) The semi-trailer *must* carry a uniformly distributed load of at least that given as “**TRAILER CAPACITY**” in the Data Table (Paragraph 1.4).

3.4.3 **Dimensions**

- (a) The semi-trailer *must* have a nominal overall length of that given as “**TRAILER LENGTH**” in the Data Table (Paragraph 1.4);
- (b) The semi-trailer *must* have a nominal overall width of that given as “**TRAILER WIDTH**” in the Data Table (Paragraph 1.4);
- (c) The semi-trailer, un-laden and with the floor level, *must* have a nominal overall height of that given as “**TRAILER HEIGHT**” in the Data Table (Paragraph 1.4);
- (d) The semi-trailer *must* have a minimum interior body height of that given as “**INTERIOR BODY HEIGHT**” in the Data Table (Paragraph 1.4);
- (e) The semi-trailer *must* have a nominal kingpin distance (KP) of that given as “**KINGPIN DISTANCE**” in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer;
- (f) The semi-trailer *must* operate with the kingpin at a nominal height of that given as “**KINGPIN HEIGHT**” in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate; and
- (g) The semi-trailer *must* have a minimum landing wheel clearance from kingpin (LWC) of that given as “**MIN LWC**” in the Data Table (Paragraph 1.4).

3.5 **Semi-Trailer Construction**

3.5.1 **Kingpin**

- (a) The semi-trailer *must* be provided with a 51mm (2in) kingpin.

3.5.2 **Semi-Trailer Frame**

- (a) The semi-trailer *must* be provided with a frame that is reinforced for towing points.

3.5.3 **Floor**

3.5.3.1 **All Configurations**

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- (a) The semi-trailer floor **must** support loading/unloading by a forklift with a 4,540 kg GVW and 3,630 kg single axle load;
- (b) The interior flooring **must** be constructed of kiln dried or seasoned hardwood, tongue and groove or ship-lap, of sufficient thickness to accommodate the load; and
- (c) Threshold Plate
 - i The interior flooring **must** incorporate a minimum 300 mm wide threshold plate, constructed of checker plated steel or an **equivalent**, at the rear of the semi-trailer; and
 - ii The top surface of the threshold plate **must** be level with the flooring and fastened into the floor cross members with carriage bolts, or welded across the rear to the floor.

3.5.3.2 Configurations C & D

- (a) The semi-trailer floor **must** be provided with insulation with a nominal thickness of 50 mm.

3.5.4 Interior Walls

3.5.4.1 Configurations A & B

- (a) The semi-trailer interior wall **must** be lined with exterior grade plywood; and
- (b) The semi-trailer interior wall surfaces **must** be provided with kick plates as per the manufacturer's standard design, covering the bottom portion of the plywood surface up to a height of at least 450 mm from the floor.

3.5.4.2 Configurations C & D

- (a) The semi-trailer walls **must** be provided with insulation with a nominal thickness of 50 mm;
- (b) The semi-trailer interior walls **must** be lined with a layer of thermal guard material; and
- (c) The semi-trailer interior wall surfaces **must** be provided with kick plates as per the manufacturer's standard design, covering the bottom portion of the plywood surface up to a height of at least 450 mm from the floor.

3.5.5 Roof

3.5.5.1 All Configurations

- (a) The semi-trailer roof **must** be constructed of a one-piece translucent material, secured around its perimeter to the roof rails and to pre-cambered roof bows; and
- (b) Rub Strips
 - i The roof structure **must** be provided with two (2) evenly spaced, full-length ceiling mounted rub strips; and

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- ii The rub strips **must** incorporate the interior lighting and act as a protection to prevent loads from catching on the cross members.

3.5.5.2 Configurations C & D

- (a) The semi-trailer roof **must** be provided with insulation with a nominal thickness of 75 mm.

3.5.6 Rear Doors

3.5.6.1 Configurations A & B

- (a) The semi-trailer body **must** be provided with two (2) rear doors;
- (b) The rear doors **must** be full height, full-width “barn type” doors;
- (c) Each rear door **must** be provided with at least four (4) hinges;
- (d) The rear doors **must** be provided with compression type door hardware, with provisions for locking them with a padlock;
- (e) The rear doors **must** be provided with perimeter door seals along all four (4) edges;
- (f) The rear doors **must** be provided with devices to secure the doors in the full open position;
- (g) The interior door surfaces **must** be lined with exterior grade plywood;
- (h) The interior door surfaces **must** be provided with kick plates as per the manufacturer’s standard design, covering the bottom portion of the plywood surface up to a height of at least 450 mm from the floor;
- (i) Rear Doors – Configurations A & B Accessories. The Rear Doors listed in the following paragraphs **must** be provided on the semi-trailer, upon request.

i Roll-up Door (in lieu)

- 1. The semi-trailer body **must** be provided with a roll-up door in lieu of the standard Rear Doors specified above;
- 2. The dimensions of the roll-up door **must** be maximized;
- 3. The roll-up door **must** be constructed of replaceable aluminum panels;
- 4. The roll-up door **must** be provided with replaceable rollers;
- 5. The roll-up door **must** be provided with a two-spring, two-cable balancer, with an independent spring for each cable;
- 6. The springs **must** be treated with rust preventative;
- 7. The roll-up door **must** be provided with stainless steel cables;
- 8. The roll-up door **must** be provided with inter-panel seals;
- 9. The roll-up door **must** be provided with seals at the edges to prevent water ingress;
- 10. The roll-up door **must** be provided with a cam-style lock assembly, with provisions for a padlock;

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11. The roll-up door **must** be provided with a pull strap and a lifting handle; and
12. The roll-up door **must** be provided with stainless steel or corrosion resistant hardware.

3.5.6.2 Configurations C & D

- (a) The semi-trailer body **must** be provided with two (2) rear doors;
- (b) The rear doors **must** be full height, full-width “barn type” doors;
- (c) Each rear door **must** be provided with at least four (4) hinges;
- (d) The rear doors **must** be provided with compression type door hardware, with provisions for locking them with a padlock;
- (e) The rear doors **must** be provided with perimeter door seals along all four (4) edges;
- (f) The rear doors **must** be provided with devices to secure the doors in the full open position;
- (g) The doors **must** be provided with insulation with a nominal thickness of 50 mm;
- (h) The interior door surfaces **must** be lined with a layer of thermal guard material; and
- (i) The interior door surfaces **must** be provided with kick plates as per the manufacturer’s standard design, covering the bottom portion of the door surface up to a height of at least 450 mm from the floor;

3.5.7 Side Door

3.5.7.1 Configurations A & B

- (a) The semi-trailer body **must** be provided with one (1) side door;
- (b) The side door **must** be located on the curb side, immediately behind the landing gear;
- (c) The side door opening nominal dimensions **must** be 2,032 mm high by 1,092 mm wide (80” high x 43” wide);
- (d) The side door **must** be provided with compression type door hardware, with provisions for locking the door with a padlock;
- (e) The side door **must** be provided with perimeter door seals along all four (4) edges;
- (f) The side door **must** be provided with a device to secure the door in the full open position;
- (g) The interior door surface **must** be lined with exterior grade plywood; and

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- (h) The interior door surface *must* be provided with a kick plate as per the manufacturer's standard design, covering the bottom portion of the plywood surface up to a height of at least 450 mm from the floor.

3.5.7.2 Configurations C & D

- (a) The semi-trailer body *must* be provided with one (1) side door;
- (b) The side door *must* be located on the curb side, immediately behind the landing gear;
- (c) The side door opening nominal dimensions *must* be 2,032 mm high by 1,092 mm wide (80" high x 43" wide);
- (d) The side door *must* be provided with compression type door hardware, with provisions for locking the door with a padlock;
- (e) The side door *must* be provided with perimeter door seals along all four (4) edges;
- (f) The side door *must* be provided with a device to secure the door in the full open position;
- (g) The doors *must* be provided with insulation with a nominal thickness of 50 mm;
- (h) The interior door surface *must* be lined with a layer of thermal guard material; and
- (i) The interior door surface *must* be provided with kick plates as per the manufacturer's standard design, covering the bottom portion of the door surface up to a height of at least 450 mm from the floor.

3.5.8 Refrigerating Unit

3.5.8.1 Configurations C & D

- (a) The semi-trailer *must* be provided with a self-contained refrigerating unit that operates on diesel fuel;
- (b) The refrigerating unit *must* be located at the front of the semi-trailer;
- (c) The refrigerating unit *must* be controlled by a thermostat;
- (d) The refrigerating unit *must* maintain the cargo at a selected temperature within the range of -29° C to +10° C; and
- (e) The refrigerating unit *must* run continuously for a minimum of 24 hours before requiring to be refilled with fuel.

3.5.9 Features

(a) **Body Panel Joints**

- i The semi-trailer body panel joints *must* prevent moisture ingress.

(b) **Aerodynamic Corners**

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- i The semi-trailer front exterior wall *must* incorporate large aerodynamic radius corners.

(c) **Access Steps**

- i The semi-trailer *must* be provided with access steps to gain access into the semi-trailer from all the doors, when the doors are open; and
- ii The access steps *must* feature grab handles for ease of access into the semi-trailer.

(d) **Floor-mounted Cargo Rails**

- i The semi-trailer *must* be provided with four (4) cargo rails mounted to the floor interior;
- ii The cargo rails *must* be recessed and run the full length of the flooring;
- iii Two (2) cargo rails *must* be installed, one on each side, with the centre a nominal distance of 52 mm from the side wall;
- iv Two (2) cargo rails *must* be installed, one on each side, with the centre a nominal distance of 104 mm from the side wall; and
- v The semi-trailer *must* be provided with twenty-four (24) multi-position cargo hands.

(e) **Wall-mounted Logistics Tracks**

- i The semi-trailer *must* be provided with four (4) logistics tracks mounted to the interior of the side walls;
- ii The logistics tracks *must* be recessed and run the full length of the side walls;
- iii Two (2) logistics tracks *must* be installed on the curbside wall, at heights of 762 mm and 1,524 mm from the floor; and
- iv Two (2) logistics tracks *must* be installed on the roadside wall, at heights of 762 mm and 1,524 mm from the floor.

(f) **Cargo Securement Bars**

- i The semi-trailer *must* be provided with ten (10) cargo securement bars; and
- ii The cargo securement bars *must* function with the wall-mounted logistics tracks.

(g) **Heavy-duty Telescopic Poles**

- i The semi-trailer *must* be provided with two (2) heavy-duty telescopic poles.

3.5.10 **Towing points**

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- (a) The semi-trailer *must* be provided with two (2) rear-mounted towing points, positioned and of sufficient strength to permit recovery of the loaded semi-trailer.

3.5.11 Railway tie-down points

- (a) The semi-trailer *must* be provided with railway tie-down points, positioned and of sufficient strength to permit the securing and transportation of the loaded semi-trailer on a railroad car.

3.5.12 Dock Bumpers

- (a) The semi-trailer *must* be provided with heavy-duty rubber dock bumpers at the rear corners, measuring nominally 102 mm (4in) deep.

3.5.13 Rear Bumper

- (a) The semi-trailer *must* be provided with a rear bumper per CMVSS.

3.6 Chassis and Auxiliary Systems

3.6.1 Axles

- (a) The semi-trailer *must* be provided with the axle configuration as specified as “**AXLES CONFIGURATION**” in the Data Table (Paragraph 1.4);
- (b) The axles *must* be of appropriate capacity to carry the maximum payload specified in this document;
- (c) The axles *must* be provided with dual-wheels at each wheel station; and
- (d) The axles *must* be mounted as a sliding axle group to assist with axle weight distribution.

3.6.2 Suspension

- (a) The semi-trailer *must* be provided with an air bag suspension system;
- (b) The suspension system *must* include an automatic height control valve;
- (c) The suspension system *must* include a manual suspension air dump valve;
- (d) The suspension system *must* include shock absorbers acting on all wheel stations;
- (e) The suspension system *must* include an air gauge to assist the operator in determining system pressure; and
- (f) The suspension system *must* have suspension travel limiters, such as cables or chains fastened to the suspension beam or axle and the under frame, at a length equal to or less than the shock absorber extended stroke; the use of the shock absorbers as travel limiters is not acceptable.

3.6.3 Wheels and Tires

- (a) The semi-trailer *must* be provided with wheels and tires certified by the manufacturer to be suitably sized and rated for the application and load;

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- (b) The dual-wheel assemblies *must* be identical across the trailer system;
- (c) The semi-trailer *must* be provided with written indications of the operating tire pressure at each wheel station;
- (d) The wheels *must* be provided with loose wheel nut indicators at each wheel station; and
- (e) The semi-trailer *must* be provided with a hub odometer reading in kilometres.

3.6.3.1 **Wheels and Tires Accessories.** The wheels and tires accessories listed in the following paragraphs *must* be provided on the semi-trailer, upon request.

- (a) Wide Base Single Wheels and Tires (in lieu)
 - i The semi-trailer *must* be provided with wide base single wheels and tires at each wheel station in lieu of the standard dual-wheels specified above.

3.6.4 **Brake System**

- (a) The semi-trailer *must* be provided with an anti-lock, air disc brake system;
- (b) The brake system *must* be provided with remote, cable operated drain valves on the air reservoirs, with heated moisture expelling valve(s);
- (c) The brake housings *must* be equipped with dust shields;
- (d) The semi-trailer *must* be provided with colour coded glad hand couplers for interconnection between semi-trailer and tractor; and
- (e) The semi-trailer *must* be provided with dummy glad hand coupler covers, including a safety chain/cable for each glad hand, to block and protect the air-lines when they are not in use.

3.6.5 **Landing Gear**

- (a) The semi-trailer *must* be provided with an interconnected two-legged, two-speed, landing gear system with self-levelling landing pads; and
- (b) The landing gear system *must* withstand the weight of the fully loaded semi-trailer when not connected to the tractor.

3.6.6 **Spare Wheel Assemblies with Storage**

- (a) The semi-trailer *must* be provided with one (1) spare tire/wheel assembly; and
- (b) The spare tire/wheel assembly *must* be mounted on the semi-trailer as per the manufacturer's standard location.

3.7 **Electrical System**

- (a) The semi-trailer *must* be provided with a 12-volt negative ground electrical system;
- (b) The electrical system *must* provide all power and control for the semi-trailer lighting and anti-lock brake system, while the semi-trailer is connected to the tractor vehicle;

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- (c) The electrical system **must** include a SAE J560 7-pin 12 volt semi-trailer receptacle, located in accordance with SAE J702;
- (d) The electrical system **must** include, as a minimum, electrical wiring used for the connection to the tractor vehicle intended for heavy-duty use, with positive engaging connectors, which are mounted securely to the system components;
- (e) Wiring **must** be protected by grommets when passing through metal;
- (f) The harnesses **must** be sealed harnesses and all connections treated with dielectric grease; and
- (g) All electrical components **must** be accessible for servicing.

3.8 **Lighting**

- (a) The semi-trailer **must** be provided with a lighting system conforming to CMVSS requirements;
- (b) The semi-trailer **must** be provided with LED body lighting;
- (c) Lights and reflectors **must** be recessed or otherwise protected from damage;
- (d) **Interior Lights and Switch**
 - i The semi-trailer **must** be provided with a minimum of five (5) interior LED dome lights that are adequate for a working environment;
 - ii The interior lights **must** be mounted flush to the ceiling rub strips; and
 - iii The interior lights **must** be provided with a timer switch (minimum duration of 15 minutes) or automatically switch off while the semi-trailer is in motion.

3.9 **Miscellaneous Equipment**

3.9.1 **Storage Compartments**

- (a) The semi-trailer **must** be provided with two (2) lockable storage compartments;
- (b) The compartments **must** be of sufficient size to accommodate spare straps, chains and fluids;
- (c) The compartment floors **must** be covered with a durable surface, such as DRI decking, to help keep contents dry;
- (d) The compartment floors **must** be equipped with drain holes; and
- (e) The compartments **must** be located as per the manufacturer's standard location.

3.9.2 **Mud Flaps**

- (a) The semi-trailer **must** be provided with mud flaps located behind the rear axle; and
- (b) The mud flaps **must** be made of plain black rubber with no logos displayed.

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3.9.3 **License Plate Holder**

- (a) The semi-trailer *must* be provided with an illuminated license plate holder located at the rear.

3.9.4 **Conspicuity Tape**

- (a) The semi-trailer *must* be provided with conspicuity tape conforming to CMVSS requirements.

3.9.5 **Document Holder**

- (a) The semi-trailer *must* be provided with a document holder, located on the road side at the front.

3.9.6 **Identification Plate**

- (a) The semi-trailer *must* be provided with an identification plate containing the following information as a minimum:
 - i Manufacturer, model, model year and serial number of the semi-trailer; and
 - ii GAWR and GVWR ratings;
- (b) The maximum payload capacity *must* be permanently and clearly marked in a location near the identification plate.

3.10 **Accessories** The accessories listed in the following paragraphs *must* be provided with the semi-trailer when specified in the solicitation.

3.10.1 **Aerodynamic Side Skirts**

- (a) The semi-trailer *must* be provided with aerodynamic side skirts on both sides.

3.10.2 **Dangerous Goods Placard Holders**

- (a) The semi-trailer *must* be provided with four (4) aluminum dangerous goods placard holders;
- (b) One (1) holder *must* be mounted at the centre of each side of the van body, near the bottom;
- (c) One (1) holder *must* be mounted at the rear of the van body, at the lower curb side corner; and
- (d) One (1) holder *must* be mounted on the front of the van body, on the lower road side corner.

3.10.3 **Tuck-under Electro-Hydraulic Tailgate**

- (a) The semi-trailer *must* be provided with an easy-lift, tuck-under electro-hydraulic tailgate with an aluminum deck;
- (b) The tailgate *must* have a capacity of at least of 1,135 kg;
- (c) The tailgate *must* have the capacity rating conspicuously and permanently marked on the tailgate;

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(d) **Controls**

- i The tailgate *must* be provided with permanently wired weatherproof controls located at the rear curb side corner; and
- ii The tailgate *must* be provided with power up and down controls.

(e) **Tailgate and Platform**

- i The tailgate *must* be provided with a heavy-duty platform with a tapered outer edge and a non-skid surface;
- ii The platform, including the tapered edge, *must* be at least 1,265 mm deep and at least 2,025 mm wide;
- iii The top of the platform *must* be level with the top of the body floor when fully raised;
- iv There *must* be no gap between body floor and the edge of platform;
- v The tailgate *must* be provided with a full width extension of at least 203 mm; and
- vi The tailgate *must* be provided with safety warning decals on the rear face of the body platform, and full width warning strips of solid yellow stripes on the inner and outer edges of the tailgate platform.

(f) **Flip Step**

- i The tailgate *must* be provided with a heavy-duty loop or flip type step on each side of the semi-trailer, flush mounted with the sides of the deck extension; and
- ii The step *must* be 610 mm above ground.

(g) The semi-trailer *must* be provided with a tailgate master disconnect switch.

3.11 **Paint and Corrosion Protection System**

3.11.1 **Paint**

- (a) The semi-trailer *must* be painted in accordance with the manufacturer's best production procedures using standard commercial practices and materials, rendering a durable finish of the required film thickness and a smooth appearance free from runs, sags and orange peel;
- (b) The paint finish on exposed exterior surfaces normally painted for the commercial trade *must* be white;
- (c) The paint finish on chassis items such as frame and tailgate *must* be low-gloss or flat black; and
- (d) Additional lettering and symbols on the outside of the semi-trailer *must* be in a high contrast colour.

3.11.2 **Corrosion Protection System**

(a) **Galvanic Corrosion**

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- i The semi-trailer *must* be protected against galvanic corrosion where dissimilar metals are used.

(b) **Rust Prevention Coating**

- i The semi-trailer *must* be provided with a rust prevention coating to the underbody, in addition to the standard factory rustproofing;
- ii The rust prevention coating product applied *must* be Tectyl, Krown or Rust Check;
- iii A decal *must* be affixed to the semi-trailer displaying the type of rust prevention coating used; and
- iv Warranty papers covering the rust prevention coating *must* accompany the semi-trailer.

3.12 **Warning and Instruction Plates**

- (a) The warning and instruction plates *must* be within easy view of the user and in accordance with standard commercial practice; and
- (b) The warning and instruction plates *must* be international symbols and/or bilingual (English and French) markings.

3.13 **Semi-Trailer Delivery Condition**

- (a) The semi-trailer *must* be delivered to destination in a fully operational condition (serviced and adjusted);
- (b) The semi-trailer *must* be completely cleaned; and
- (c) The semi-trailer *must* be serviced with standard lubricants and fluids that are compatible with the delivery location and season.

4. INTEGRATED LOGISTIC SUPPORT

4.1 Contractor Documentation and Logistic Items4.1.1 Documents to Technical Authority (Designated Contact) on Contract(a) Manuals for Approval (DND Only)

- i The Contractor **must** supply a set of manuals for each Configuration/model, in digital format, including the operator, parts and maintenance (shop repair) manuals. It is acceptable that manuals include more than one Configuration/model.
- ii The set of manuals **must** include manuals for all the specified accessories and features for the configuration/model. Accessory manuals may be included as supplements to the vehicle manuals.
- iii Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- iv Digital copies **must** be supplied on a CD or DVD.
- v Digital copies **must** be supplied in a searchable PDF format.
- vi A separate CD/DVD **must** be supplied for each Configuration/ Make/ Model with all accessories.
- vii The CD or DVD **must** be permanently and legibly marked with a list of contents.
- viii Manuals will not be returned.
- ix Manual approval, request for additional documentation or request for amendments will be supplied within 15 working days of receipt.
- x The Contractor **must** supply the additional documentation or implement the changes as requested by the **Technical Authority**.
- xi Paper copies of manuals delivered under this contract **must** have the same content as the electronic format approved by the **Technical Authority**.

(b) Photographs and Line Drawings (DND Only)

- i The Contractor **must** supply two (2) digital colour photographs, one left-front three-quarter full vehicle view, and one right-rear three-quarter full vehicle view of each Configuration/model;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;
- iii One front-view and one side-view line drawing showing dimensions of the vehicle **must** be supplied. Brochure line drawings are acceptable;
- iv Photographs **must** an plain background;

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- v Photographs *must* be in a JPEG (Joint Photographic Experts Group) format; and
 - vi Photographs *must* have a resolution of at least eight (8) Mega pixels.
- (c) **Load Analysis Drawing (DND Only)**
- i The Contractor *must* provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and
 - ii The load analysis drawing *must* be in PDF format supplied on a CD or a DVD.
- (d) **Data Summary (DND Only)**
- i The Contractor *must* supply a bilingual data summary for each Configuration/model, with vehicle data (including accessories and features) and a vehicle picture, for each DND contract;
 - ii The **Technical Authority** will supply a bilingual template of a data summary to the Contractor;
 - iii The Contractor *must* submit a digital copy (MS Word) of the completed data summary for approval;
 - iv Data summary approval or comments will be supplied within 15 working days of receipt; and
 - v The Contractor *must* provide responses to the **Technical Authority's** comments.
- (e) **Warranty Letter (All Users)**
- i The **Technical Authority** will supply a current bilingual warranty letter template to the Contractor;
 - ii The Contractor *must* supply a complete description of the warranty with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested;
 - iii The warranty letter *must* include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
 - iv The Contractor *must* supply a copy of the warranty letter, in PDF digital format, for each vehicle delivered, to the **Technical Authority** or the designated contact for non-DND users.
- (f) **Safety Data Sheets (DND Only)**
- i The Contractor *must* supply a list, in digital format, of all hazardous materials used on the vehicle;
 - ii If there are no hazardous materials are used, this *must* be stated on the list; and

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- iii The Contractor *must* supply safety data sheets of all hazardous materials in the list.

4.1.2 **Items Supplied with Each Vehicle**

(a) **Operator's Manual(s)**

- i The Contractor *must* supply the *Technical Authority* approved bilingual operator's manual(s) in both paper and searchable PDF digital format with each vehicle delivered.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(b) **Warranty Letter(s)** - The Contractor *must* supply a paper copy of the warranty letter(s) with each vehicle delivered;

(c) **Safety Data Sheets**

- i The Contractor *must* supply a set of material safety data sheets; and
- ii The safety data sheets *must* be the same as those supplied to the **Technical Authority** (paragraph 4.1.1 (f)).

(d) **Line Setting Ticket**

- i The Contractor *must* produce a Line Setting Ticket, or equivalent, describing the components provided on the semi-trailer.
- ii The Contractor *must* supply the *Technical Authority* a Line Setting Ticket in both paper and searchable PDF digital format with each vehicle delivered.
- iii Digital copies *must* be supplied on a CD or a DVD.
- iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(e) **Maintenance Manual(s) - English**

- i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in English, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

- iv The Contractor may supply this deliverable as a bilingual package.

(f) **Maintenance Manual(s) – French**

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- i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in French, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- iv The Contractor may supply this deliverable as a bilingual package.

(g) **Parts Manual(s)**

- i The Contractor *must* supply the *Technical Authority* approved parts manual(s) in paper and searchable digital format, for the vehicle, features and accessories.
- ii The parts manual(s) *must* be in English.
- iii Digital copies *must* be supplied on a CD or a DVD.
- iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- v It is desirable to provide the parts manual(s) in French in addition to the English version.

4.2 **Training**

(a) **Training – Familiarization - English**

- i The Contractor *must* supply a familiarization course in English;
- ii The instructor *must* be an OEM Factory Certified Training Provider;
- iii The familiarization course *must* include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use and maintenance of all accessories supplied;
- iv The instructor *must* supply responses to questions;
- v The familiarization course *must* have a minimum duration of two (2) hours;
- vi The familiarization course *must* accommodate up to eight (8) personnel;
- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified

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user or designated contact person for vehicles shipped for users other than DND;

- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

(b) **Training – Familiarization - French**

- i The Contractor *must* supply a familiarization course in French;
- ii The instructor *must* be an OEM Factory Certified Training Provider;
- iii The familiarization course *must* include operation and maintenance segments demonstrating, all safety measures required for safe vehicle use, instructions on the use of all accessories supplied and maintenance;
- iv The instructor *must* supply responses to questions;
- v The familiarization course *must* have a minimum duration of two (2) hours;
- vi The familiarization course *must* accommodate up to eight (8) personnel;
- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped for users other than DND;
- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

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NOTICE

This documentation has been reviewed by the **Technical Authority** and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'**Autorité technique** et ne contient pas de marchandises contrôlées.

1. SCOPE

1.1 **Scope** - This Purchase Description defines the requirements for a flat deck semi-trailer with accessories. Main configurations are as follows:

- Configuration A – Flat Deck, 30 Ton payload, 53 ft, Tandem
- Configuration B – Flat Deck, 35 Ton payload, 53 ft, Tridem
- Configuration C – Step Deck, 30 Ton payload, 53 ft, Tandem
- Configuration D – Step Deck, 35 Ton payload, 53 ft, Tridem

1.2 **Instructions** – The following instructions apply to this Purchase Description:

- (a) Requirements, which are identified by the word “**must**”, are mandatory. Deviations will not be permitted;
- (b) Requirements identified by “**must**”..... or “**equivalent**” are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as a Technical Authority approved 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 “**must**”, “**must**”..... or “**equivalent**”, or “will” are not used, the information provided is for guidance only;
- (e) In this document “provided” means “provided and installed”;
- (f) Where a standard is specified and the Contractor has offered an **equivalent**, that equivalent standard **must** be supplied by the Contractor, at no cost to Canada, when authorized by the **Technical Authority**;
- (g) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **must** be provided for the semi-trailer when requested by the Technical Authority up until the date of the expiration of the warranty period;
- (h) While the SI system is used as the primary system of measurement to define requirements of this Purchase Description, both the SI system and the Standard system of measurements may be indicated. Conversions from one system of measurement to the other may not be exact; and

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- (i) Dimensions stated as nominal are 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**

- (a) **“Provided”** means “provided and installed”;
- (b) **“Technical Authority”** means the official responsible for the technical content of this Purchase Description;
- (c) **“Equivalent”** means a standard, means, or component type, which the Technical Authority has approved for this requirement as meeting the specified requirements for fit, form, function and performance;
- (d) **“Commercially Equipped”** means that the semi-trailer is provided in its standard commercial configuration with no additional government-specified requirements;
- (e) **“Road Legal”** means the semi-trailer can be legally operated on all Canadian highways and secondary roads, without restrictions or special permits;
- (f) **“Curb Weight”** (CW) means the weight of the fully equipped semi-trailer. The curb weight includes all attached accessories and equipment. The Curb Weight does not include the Payload;
- (g) **“Payload”** means the maximum cargo load carrying capacity of the semi-trailer. The payload is the calculated difference between the Gross Vehicle Weight Rating and the Curb Weight;
- (h) **“Gross Axle Weight Rating”** (GAWR) means the gross axle weight rating, which is the maximum axle load allowed by the manufacturer for this application; and
- (i) **“Gross Vehicle Weight Rating”** (GVWR) means the maximum operating weight of the semi-trailer as stated by manufacturer.

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1.4 **Data Table** - The following table shows the required performance and dimensions for each Configuration and includes paragraph references:

CHARACTERISTIC	PARA	UNITS	CONFIGURATION			
			A	B	C	D
TRAILER CAPACITY	3.4.2	kg	27,216	31,752	27,216	31,752
TRAILER LENGTH	3.4.3 (a)	mm	16,150	16,150	16,150	16,150
TRAILER WIDTH	3.4.3 (b)	mm	2,590	2,590	2,590	2,590
MAIN DECK LENGTH	3.4.3 (c)	mm	16,150	16,150	13,000	13,000
MAIN DECK HEIGHT	3.4.3 (d)	mm	1,525	1,525	1,120	1,120
UPPER DECK HEIGHT	3.4.3 (e)	mm			1,525	1,525
KINGPIN DISTANCE	3.4.3 (f)	mm	609	609	609	609
KINGPIN HEIGHT	3.4.3 (g)	mm	1,245	1,245	1,245	1,245
MIN LWC	3.4.3 (h)	mm	2,700	2,700	2,700	2,700
AXLES CONFIGURATION	3.6.1 (a)	-	Tandem	Tridem	Tandem	Tridem

1.4.1 **Accessory Table** - The following table indicates with an “X” and by Configuration, the features, accessories, additional items and training.

DESCRIPTION	PARA	CONFIGURATION			
		A	B	C	D
Wide Base Single Wheels and Tires (in-lieu)	3.6.3.1 (a)	X	X	X	X
Container locks	3.10.1	X	X	X	X
Chain slots	3.10.2			X	X
Deck-mounted D-Rings	3.10.3			X	X
Bulkhead	3.10.4			X	X
Rolling tarp system	3.10.5	X	X		
Maintenance Manual – English	4.1.2 (e)	X	X	X	X
Maintenance Manual – French	4.1.2 (f)	X	X	X	X
Parts Manual	4.1.2 (g)	X	X	X	X
Training – Familiarization – English	4.2 (a)	X	X	X	X
Training – Familiarization – French	4.2 (b)	X	X	X	X

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2. APPLICABLE DOCUMENTS - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

SAE World Headquarters
400 Commonwealth Dr.,
Warrendale, PA, 15096-0001
<http://www.sae.org>

Canada Motor Vehicle Safety Act (CMVSA)

Government of Canada / Transport Canada,
<http://www.tc.gc.ca/eng/acts-regulations/acts-1993c16.htm>

3. REQUIREMENTS

3.1 Standard Design

- (a) The semi-trailer *must* be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of equipment for at least three (3) years;
- (b) The semi-trailer *must* include all components, equipment and accessories normally supplied for this application, although they may not be specifically described in this Purchase Description;
- (c) The semi-trailer *must* have engineering certification available, upon request, for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The semi-trailer *must* conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The semi-trailer and accessories *must* operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather

- (a) The semi-trailer *must* operate safely and effectively throughout a temperature range of -40° to 37° C, without degradation in performance, reliability and maintainability.

3.2.2 Terrain

- (a) The semi-trailer *must* operate safely and effectively on paved roads, gravel roads and dirt roads with severe washboard and pot holes, in all-weather conditions and with the stated payload, without degradation in performance, reliability and maintainability.

3.3 Safety Standards

3.3.1 Vehicle Safety Regulations

- (a) The semi-trailer *must* meet the provisions of the Canada Motor Vehicle Safety Act.

3.3.2 Hazardous Materials

- (a) The Contractor *must* minimize or eliminate the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals (as described in the Hazardous Products Act of Canada) when manufacturing the semi-trailer.

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3.3.3 **Safety Features**

- (a) The trailer system *must* be provided with the safety features such as warning and instruction plates, non-slip walking surfaces and heat shields where required for operator safety.

3.4 **Performance**

3.4.1 **Trailer Performance**

- (a) The trailer system *must* be towed safely at a continuous speed of at least 105 km/h with the stated payload.

3.4.2 **Load Performance**

- (a) The semi-trailer *must* carry a uniformly distributed load of at least that given as “**TRAILER CAPACITY**” in the Data Table (Paragraph 1.4).

3.4.3 **Dimensions**

- (a) The semi-trailer *must* have a nominal overall length of that given as “**TRAILER LENGTH**” in the Data Table (Paragraph 1.4);
- (b) The semi-trailer *must* have a nominal overall width of that given as “**TRAILER WIDTH**” in the Data Table (Paragraph 1.4);
- (c) The semi-trailer main deck *must* have a nominal length of that given as “**MAIN DECK LENGTH**” in the Data Table (Paragraph 1.4);
- (d) The semi-trailer main deck, un-laden, *must* have a nominal height of that given as “**MAIN DECK HEIGHT**” in the Data Table (Paragraph 1.4);
- (e) The semi-trailer upper deck *must* have a nominal height of that given as “**UPPER DECK HEIGHT**” in the Data Table (Paragraph 1.4);
- (f) The semi-trailer *must* have a nominal kingpin distance (KP) of that given as “**KINGPIN DISTANCE**” in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer;
- (g) The semi-trailer *must* operate with the kingpin at a nominal height of that given as “**KINGPIN HEIGHT**” in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate; and
- (h) The semi-trailer *must* have a minimum landing wheel clearance from kingpin (LWC) of that given as “**MIN LWC**” in the Data Table (Paragraph 1.4).

3.5 **Semi-Trailer Construction**

3.5.1 **Kingpin**

- (a) The semi-trailer *must* be provided with a 51 mm (2 in) kingpin.

3.5.2 **Semi-Trailer Frame**

- (a) The semi-trailer *must* be provided with a frame that is reinforced for towing points.

3.5.3 **Decking Floor**

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3.5.3.1 Configurations A & B

- (a) The semi-trailer **must** be provided with a full and continuous main deck, with no openings;
- (b) The main deck floor **must** be covered with replaceable wood planks of sufficient thickness to accommodate the load; and
- (c) The wood planks **must** be treated with Linseed oil or **equivalent** weather proofing treatment.

3.5.3.2 Configurations C & D

- (a) The semi-trailer **must** be provided with full and continuous main and upper deck, with no openings; frame flanges are permitted to be part of the deck surface;
- (b) The main and upper deck floors **must** be covered with replaceable wood planks of sufficient thickness to accommodate the load; checker plates are permitted to be part of the main deck surface where required; and
- (c) The wood planks **must** be treated with Linseed oil or **equivalent** weather proofing treatment.

3.5.4 Towing points

- (a) The semi-trailer **must** be provided with two (2) rear-mounted towing points, positioned and of sufficient strength to permit recovery of the loaded semi-trailer.

3.5.5 Railway tie-down points

- (a) The semi-trailer **must** be provided with railway tie-down points, positioned and of sufficient strength to permit the securing and transportation of the loaded semi-trailer on a railroad car.

3.5.6 Hydraulic Winches

3.5.6.1 Configurations A & B

- (a) The semi-trailer **must** be provided with twenty (20) sliding winches, divided equally between the LH and RH sides of the semi-trailer; and
- (b) The sliding winches **must** be mounted on a full length sliding mechanism along each side of the semi-trailer.

3.5.6.2 Configurations C & D

- (a) The semi-trailer **must** be provided with twenty (20) sliding winches, divided equally between the LH and RH sides of the semi-trailer; and
- (b) The sliding winches **must** be mounted on a sliding mechanism along each side of the main and upper decks. The winches above the axles can be either sliding or fixed.

3.5.7 Strap Assembly

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- (a) The semi-trailer *must* be provided with one strap assembly for each of the winches;
- (b) Each strap assembly *must* consist of a strap, chain and slip hook;
- (c) The strap assembly dimensions *must* be 76 mm (3 in) wide by 9144 mm (30 ft) long; and
- (d) The strap assembly *must* have a minimum working load limit of 2,450 kg.

3.5.8 Rub Rails

- (a) The semi-trailer *must* be provided with rub rails and stake pockets along both sides of the semi-trailer to be used with the strap assemblies and winches.

3.6 Chassis and Auxiliary Systems

3.6.1 Axles

3.6.1.1 All Configurations

- (a) The semi-trailer *must* be provided with the axle configuration as specified as “**AXLES CONFIGURATION**” in the Data Table (Paragraph 1.4); and
- (b) The axles *must* be of appropriate capacity to carry the maximum payload specified in this document.

3.6.1.2 Configurations A & B

- (a) The axles *must* be mounted as a sliding axle group to assist with axle weight distribution.

3.6.2 Suspension

- (a) The semi-trailer *must* be provided with an air bag suspension system;
- (b) The suspension system *must* include an automatic height control valve;
- (c) The suspension system *must* include a manual suspension air dump valve;
- (d) The suspension system *must* include shock absorbers acting on all wheel stations;
- (e) The suspension system *must* include an air gauge to assist the operator in determining system pressure; and
- (f) The suspension system *must* have suspension travel limiters, such as cables or chains fastened to the suspension beam or axle and the under frame, at a length equal to or less than the shock absorber extended stroke; the use of the shock absorbers as travel limiters is not acceptable.

3.6.3 Wheels and Tires

- (a) The semi-trailer *must* be provided with dual-wheels and tires certified by the manufacturer to be suitably sized and rated for the application and load;
- (b) The dual-wheel assemblies *must* be identical across the trailer system;

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- (c) The semi-trailer *must* be provided with written indications of the operating tire pressure at each wheel station;
- (d) The wheels *must* be provided with loose wheel nut indicators at each wheel station; and
- (e) The semi-trailer *must* be provided with a hub-odometer reading in kilometres.

3.6.3.1 **Wheels and Tires Accessories.** The wheels and tires accessories listed in the following paragraphs *must* be provided on the semi-trailer, upon request.

- (a) **Wide Base Single Wheels and Tires** (in-lieu)
 - i The semi-trailer body *must* be provided with wide base single wheels and tires at each wheel station in lieu of the standard dual-wheels specified above.

3.6.4 **Brake System**

- (a) The semi-trailer *must* be provided with an anti-lock, air disc brake system;
- (b) The brake system *must* be provided with remote, cable operated drain valves on the air reservoirs, with heated moisture expelling valve(s);
- (c) The brake housings *must* be equipped with dust shields;
- (d) The semi-trailer *must* be provided with colour coded glad hand couplers for interconnection between semi-trailer and tractor; and
- (e) The semi-trailer *must* be provided with dummy glad hand coupler covers, including a safety chain/cable for each glad hand, to block and protect the air-lines when they are not in use.

3.6.5 **Landing Gear**

- (a) The semi-trailer *must* be provided with an interconnected two-legged, two-speed, landing gear system with self-levelling landing pads; and
- (b) The landing gear system *must* withstand the weight of the fully loaded semi-trailer when not connected to the tractor.

3.7 **Electrical System**

- (a) The semi-trailer *must* be provided with a 12-volt negative ground electrical system;
- (b) The electrical system *must* provide all power and control for the semi-trailer lighting and anti-lock brake system, while the semi-trailer is connected to the prime mover;
- (c) The electrical system *must* include a SAE J560 7-pin 12 volt semi-trailer receptacle, located in accordance with SAE J702;
- (d) The electrical system *must* include, as a minimum, electrical wiring used for the connection to the tractor vehicle intended for heavy-duty use, with positive engaging connectors, which are mounted securely to the system components;

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- (e) Wiring *must* be protected by grommets when passing through metal;
- (f) The harnesses *must* be sealed harnesses and all connections treated with dielectric grease; and
- (g) All electrical components *must* be accessible for servicing.

3.8 Lighting

- (a) The semi-trailer *must* be provided with a lighting system conforming to CMVSS requirements;
- (b) The semi-trailer *must* be provided with LED body lighting; and
- (c) Lights and reflectors *must* be recessed or otherwise protected from damage.

3.9 Miscellaneous Equipment

3.9.1 Dock Bumpers

- (a) The semi-trailer *must* be provided with heavy-duty rubber dock bumpers at the rear corners, measuring nominally 102 mm (4in) deep.

3.9.2 Rear Bumper

- (a) The semi-trailer *must* be provided with a rear bumper per CMVSS.

3.9.3 Storage Compartments

- (a) The semi-trailer *must* be provided with two (2) lockable storage compartments;
- (b) The compartments *must* be of sufficient size to accommodate spare straps, chains and fluids;
- (c) The compartment floors *must* be covered with a durable surface, such as DRI decking, to help keep contents dry;
- (d) The compartment floors *must* be equipped with drain holes; and
- (e) The compartments *must* be located as per the manufacturer's standard location.

3.9.4 Spare Wheel Assembly with Storage

- (a) The semi-trailer *must* be provided with one (1) spare tire/wheel assembly; and
- (b) The spare tire/wheel assemblies *must* be mounted at the Contractor's standard location.

3.9.5 Access Steps

3.9.5.1 Configurations C & D

- (a) The semi-trailer *must* be provided with access steps to gain access onto the main deck; and
- (b) The access steps *must* be located on the curbside and the roadside near the front of the main deck.

3.9.6 Mud Flaps

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- (a) The semi-trailer *must* be provided with mud flaps located behind the rear axle; and
- (b) The mud flaps *must* be made of plain black rubber with no logos displayed.

3.9.7 License Plate Holder

- (a) The semi-trailer *must* be provided with an illuminated license plate holder located at the rear.

3.9.8 Conspicuity Tape

- (a) The semi-trailer *must* be provided with conspicuity tape conforming to CMVSS requirements.

3.9.9 Document Holder

- (a) The semi-trailer *must* be provided with a document holder, located on the road side at the front.

3.9.10 Identification Plate

- (a) The semi-trailer *must* be provided with an identification plate containing the following information as a minimum:
 - i Manufacturer, model, model year and serial number of the semi-trailer; and
 - ii GAWR and GVWR ratings;
- (b) The maximum payload capacity *must* be permanently and clearly marked in a location near the identification plate.

3.10 Accessories. The accessories listed in the following paragraphs *must* be provided with the semi-trailer when specified in the solicitation.

3.10.1 Container Locks

- (a) The semi-trailer *must* be provided with eight (8) retractable container locks, able to accommodate one (1) 12.2 m ISO container (Class/Designation “1A” IAW ISO 668) or two (2) 6.1 m ISO containers (Class/Designation “1C” IAW ISO 668); and
- (b) The container locks *must* be flush with the deck surface when not in use.

3.10.2 Chain slots

3.10.2.1 Configurations C & D

- (a) The semi-trailer *must* be provided with double-keyhole chain slots along the main and upper decks to function with the strap assemblies provided with the winches; and
- (b) The chain slots *must* be located on the deck surface, near the edge and evenly spaced, with three (3) chain slots located on each side of the upper deck, and twelve (12) chain slots located on each side of the main deck.

3.10.3 Deck-mounted D-Rings

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3.10.3.1 Configurations C & D

- (a) The semi-trailer **must** be provided with deck-mounted D-Rings along the main and upper decks, with a minimum rated capacity of 8,700 kg each;
- (b) The D-rings **must** be evenly spaced, with three (3) D-rings located on each side of the upper deck, and twelve (12) D-rings located on each side of the main deck;
- (c) The deck-mounted D-Rings **must** be recessed and flush-mounted to the decks, with drain holes; and
- (d) The deck-mounted D-Rings **must** be as close as possible to the edge, with a maximum of 203 mm from the side of the semi-trailer.

3.10.4 **Bulkhead**

3.10.4.1 Configurations C & D

- (a) The semi-trailer **must** be provided with a removable steel bulkhead located at the front of the trailer, measuring at least 1,219 mm high.

3.10.5 **Rolling Tarp System**

3.10.5.1 Configurations A & B

- (a) The semi-trailer **must** be equipped with a removable, “accordion-style” rolling tarp system over the deck area.
- (b) The rolling tarp system **must** prevent visibility of the cargo, while providing protection from the weather.
- (c) The rolling tarp system **must** be easily retractable forward and rearward to allow unobstructed loading of cargo from the top, curbside or roadside of the semi-trailer;
- (d) The rolling tarp system **must** be fully operable from ground level without the need for the operator to climb onto the deck;
- (e) The rolling tarp system **must** be able to lock into place when extended;
- (f) The rolling tarp system **must** not inhibit the securing of cargo;
- (g) The rolling tarp system **must** not inhibit the function of other trailer equipment;
- (h) **Front Wall**
 - i The rolling tarp system **must** include a solid front wall that is fixed to the front of the semi-trailer;
 - ii The front wall exterior **must** consist of a smooth aluminum skin, painted white;
 - iii The front wall **must** be provided with large radius aerodynamic corners;
 - iv The front wall **must** be provided with panel joints that prevent moisture ingress;

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- v The front wall *must* be provided with an integrated access door that can be locked;
- vi The front wall *must* have be provided with an air deflector across the top, painted white; and
- vii The front wall *must* be provided with two rear-facing LED floodlights to illuminate the cargo area, one on each side of the front wall.
- (i) Superstructure
 - i The rolling tarp system *must* be provided with a heavy duty superstructure.
- (j) Track & Wheel Assembly
 - i The rolling tarp system *must* be provided with tracks on both sides of the deck, at full length;
 - ii The tracks *must* be constructed of durable extruded aluminum;
 - iii The tracks *must* be provided with easy-to-replace polymer strips that protect the tracks and wheels from wear;
 - iv The track and wheel assembly *must* not inhibit the winches and straps operation through the rub rail; and
 - v The roller wheel assemblies *must* be provided with sealed bearings for smooth rolling operation and minimum maintenance.
- (k) Tarp
 - i The tarp *must* be made from heavy-duty material, having a density equal to or greater than 20 ounce per square yard;
 - ii The tarp *must* be reinforced at contact points;
 - iii The tarp *must* be waterproof, weatherproof and resistant to mold, mildew, and UV degradation; and
 - iv The tarp color *must* be white.
- (l) Rear Access
 - i The rolling tarp system *must* be provided with a rear access consisting of a roll-up tarp system, across the width of the trailer;
 - ii The rear roll-up tarp *must* be made of the same material and colour as the main tarp; and
 - iii The rear roll-up tarp *must* close tightly and be pad-lockable.

3.11 **Paint and Corrosion Protection System**

3.11.1 **Paint**



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- (a) The semi-trailer *must* be painted in accordance with the manufacturer's best production procedures using standard commercial practices and materials, rendering a durable finish of the required film thickness and a smooth appearance free from runs, sags and orange peel;
- (b) The paint finish *must* be low-gloss or flat black; and
- (c) Additional lettering and symbols on the outside of the semi-trailer *must* be high contrast colour.

3.11.2 **Corrosion Protection System**

(a) **Galvanic Corrosion**

- i The semi-trailer *must* be protected against galvanic corrosion where dissimilar metals are used.

(b) **Rust Prevention Coating**

- i The semi-trailer *must* be provided with a rust prevention coating to the underbody, in addition to the standard factory rustproofing;
- ii The rust prevention coating product applied *must* be Tectyl, Krown or Rust Check;
- iii A decal *must* be affixed to the semi-trailer displaying the type of rust prevention coating used; and
- iv Warranty papers covering the rust prevention coating *must* accompany the semi-trailer.

3.12 **Warning and Instruction Plates**

- (a) The warning and instruction plates *must* be within easy view of the user and in accordance with standard commercial practice; and
- (b) The warning and instruction plates *must* be international symbols and/or bilingual (English and French) markings.

3.13 **Semi-Trailer Delivery Condition**

- (a) The semi-trailer *must* be delivered to destination in a fully operational condition (serviced and adjusted);
- (b) The semi-trailer *must* be completely cleaned; and
- (c) The semi-trailer *must* be serviced with standard lubricants and fluids that are compatible with the delivery location and season.

4. **INTEGRATED LOGISTIC SUPPORT**

4.1 **Contractor Documentation and Logistic Items**

4.1.1 **Documents to Technical Authority (Designated Contact) on Contract**

(a) **Manuals for Approval (DND Only)**

- i The Contractor **must** supply a set of manuals for each Configuration/model, in digital format, including the operator, parts and maintenance (shop repair) manuals. It is acceptable that manuals include more than one Configuration/model.
- ii The set of manuals **must** include manuals for all the specified accessories and features for the configuration/model. Accessory manuals may be included as supplements to the vehicle manuals.
- iii Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- iv Digital copies **must** be supplied on a CD or DVD.
- v Digital copies **must** be supplied in a searchable PDF format.
- vi A separate CD/DVD **must** be supplied for each Configuration/ Make/ Model with all accessories.
- vii The CD or DVD **must** be permanently and legibly marked with a list of contents.
- viii Manuals will not be returned.
- ix Manual approval, request for additional documentation or request for amendments will be supplied within 15 working days of receipt.
- x The Contractor **must** supply the additional documentation or implement the changes as requested by the **Technical Authority**.
- xi Paper copies of manuals delivered under this contract **must** have the same content as the electronic format approved by the **Technical Authority**.

(b) **Photographs and Line Drawings (DND Only)**

- i The Contractor **must** supply two (2) digital colour photographs, one left-front three-quarter full vehicle view, and one right-rear three-quarter full vehicle view of each Configuration/model;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;
- iii One front-view and one side-view line drawing showing dimensions of the vehicle **must** be supplied. Brochure line drawings are acceptable;
- iv Photographs **must** an plain background;

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- v Photographs *must* be in a JPEG (Joint Photographic Experts Group) format; and
 - vi Photographs *must* have a resolution of at least eight (8) Mega pixels.
- (c) **Load Analysis Drawing (DND Only)**
- i The Contractor *must* provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and
 - ii The load analysis drawing *must* be in PDF format supplied on a CD or a DVD.
- (d) **Data Summary (DND Only)**
- i The Contractor *must* supply a bilingual data summary for each Configuration/model, with vehicle data (including accessories and features) and a vehicle picture, for each DND contract;
 - ii The **Technical Authority** will supply a bilingual template of a data summary to the Contractor;
 - iii The Contractor *must* submit a digital copy (MS Word) of the completed data summary for approval;
 - iv Data summary approval or comments will be supplied within 15 working days of receipt; and
 - v The Contractor *must* provide responses to the **Technical Authority's** comments.
- (e) **Warranty Letter (All Users)**
- i The **Technical Authority** will supply a current bilingual warranty letter template to the Contractor;
 - ii The Contractor *must* supply a complete description of the warranty with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested;
 - iii The warranty letter *must* include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
 - iv The Contractor *must* supply a copy of the warranty letter, in PDF digital format, for each vehicle delivered, to the **Technical Authority** or the designated contact for non-DND users.
- (f) **Safety Data Sheets (DND Only)**
- i The Contractor *must* supply a list, in digital format, of all hazardous materials used on the vehicle;
 - ii If there are no hazardous materials are used, this *must* be stated on the list; and

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- iii The Contractor *must* supply safety data sheets of all hazardous materials in the list.

4.1.2 **Items Supplied with Each Vehicle**

(a) **Operator's Manual(s)**

- i The Contractor *must* supply the *Technical Authority* approved bilingual operator's manual(s) in both paper and searchable PDF digital format with each vehicle delivered.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(b) **Warranty Letter(s)** - The Contractor *must* supply a paper copy of the warranty letter(s) with each vehicle delivered;

(c) **Safety Data Sheets**

- i The Contractor *must* supply a set of material safety data sheets; and
- ii The safety data sheets *must* be the same as those supplied to the **Technical Authority** (paragraph 4.1.1 (f)).

(d) **Line Setting Ticket**

- i The Contractor *must* produce a Line Setting Ticket, or equivalent, describing the components provided on the semi-trailer.
- ii The Contractor *must* supply the *Technical Authority* a Line Setting Ticket in both paper and searchable PDF digital format with each vehicle delivered.
- iii Digital copies *must* be supplied on a CD or a DVD.
- iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(e) **Maintenance Manual(s) - English**

- i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in English, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

- iv The Contractor may supply this deliverable as a bilingual package.

(f) **Maintenance Manual(s) – French**

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- i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in French, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- iv The Contractor may supply this deliverable as a bilingual package.

(g) **Parts Manual(s)**

- i The Contractor *must* supply the *Technical Authority* approved parts manual(s) in paper and searchable digital format, for the vehicle, features and accessories.
- ii The parts manual(s) *must* be in English.
- iii Digital copies *must* be supplied on a CD or a DVD.
- iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- v It is desirable to provide the parts manual(s) in French in addition to the English version.

4.2 **Training**

(a) **Training – Familiarization - English**

- i The Contractor *must* supply a familiarization course in English;
- ii The instructor *must* be an OEM Factory Certified Training Provider;
- iii The familiarization course *must* include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use and maintenance of all accessories supplied;
- iv The instructor *must* supply responses to questions;
- v The familiarization course *must* have a minimum duration of two (2) hours;
- vi The familiarization course *must* accommodate up to eight (8) personnel;
- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified

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user or designated contact person for vehicles shipped for users other than DND;

- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

(b) **Training – Familiarization - French**

- i The Contractor *must* supply a familiarization course in French;
- ii The instructor *must* be an OEM Factory Certified Training Provider;
- iii The familiarization course *must* include operation and maintenance segments demonstrating, all safety measures required for safe vehicle use, instructions on the use of all accessories supplied and maintenance;
- iv The instructor *must* supply responses to questions;
- v The familiarization course *must* have a minimum duration of two (2) hours;
- vi The familiarization course *must* accommodate up to eight (8) personnel;
- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped for users other than DND;
- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

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GROUP 4 - DOUBLE DROP TRAILER SYSTEM,
45 TONNES, WITH JEEP

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NOTICE

This documentation has been reviewed by the **Technical Authority** and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'**Autorité technique** et ne contient pas de marchandises contrôlées.

1. SCOPE

1.1 **Scope** - This Purchase Description defines the requirements for a variable height, double drop trailer system with a jeep and accessories. The trailer system will be used to transport heavy equipment and vehicles.

1.2 **Instructions** – The following instructions apply to this Purchase Description:

- (a) Requirements, which are identified by the word “*must*”, are mandatory. Deviations will not be permitted;
- (b) Requirements identified by “*must*”..... or “*equivalent*” are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as a Technical Authority approved 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 “*must*”, “*must*”..... or “*equivalent*”, or “will” are not used, the information provided is for guidance only;
- (e) In this document “provided” means “provided and installed”;
- (f) Where a standard is specified and the Contractor has offered an *equivalent*, that equivalent standard *must* be supplied by the Contractor, at no cost to Canada, when authorized by the **Technical Authority**;
- (g) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance *must* be provided for the semi-trailer when requested by the **Technical Authority** up until the date of the expiration of the warranty period;
- (h) While the SI system is used as the primary system of measurement to define requirements of this Purchase Description, both the SI system and the Standard system of measurements may be indicated. Conversions from one system of measurement to the other may not be exact; and
- (i) Dimensions stated as nominal are 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.

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PURCHASE DESCRIPTION
HEAVY DUTY TRAILERS
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1.3 **Definitions**

- (a) **“Provided”** means “provided and installed”;
- (b) **“Technical Authority”** means the official responsible for the technical content of this Purchase Description;
- (c) **“Equivalent”** means a standard, means, or component type, which the Technical Authority has approved for this requirement as meeting the specified requirements for fit, form, function and performance;
- (d) **“Commercially Equipped”** means that the semi-trailer is provided in its standard commercial configuration with no additional government-specified requirements;
- (e) **“Road Legal”** means the semi-trailer can be legally operated on all Canadian highways and secondary roads, without restrictions or special permits;
- (f) **“Curb Weight”** (CW) means the weight of the fully equipped semi-trailer. The curb weight includes all attached accessories and equipment. The Curb Weight does not include the Payload;
- (g) **“Payload”** means the maximum cargo load carrying capacity of the semi-trailer. The payload is the calculated difference between the Gross Vehicle Weight Rating and the Curb Weight;
- (h) **“Gross Axle Weight Rating”** (GAWR) means the gross axle weight rating, which is the maximum axle load allowed by the manufacturer for this application;
- (i) **“Gross Vehicle Weight Rating”** (GVWR) means the maximum operating weight of the semi-trailer as stated by manufacturer; and
- (j) **“Trailer System”** - The semi-trailer coupled to the jeep is referred to as the “trailer system” in this purchase description.

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1.4 **Data Table** - The following table shows the required performance and dimensions for the trailer system and includes paragraph references:

CHARACTERISTIC	PARA.	UNITS	
TRAILER SYSTEM CAPACITY	3.4.2	kg	45,000
SEMI-TRAILER LENGTH	3.5.1 (a)	mm	16,150
SEMI-TRAILER WIDTH	3.5.1 (b)	mm	2,590
SEMI-TRAILER KINGPIN OPERATING HEIGHT RANGE	3.5.1 (c)	mm	1,219 – 1,400
JEEP WIDTH	3.5.1 (e)	mm	2,590
JEEP KINGPIN HEIGHT	3.5.1 (f)	mm	1,245

1.4.1 **Accessory Table** - The following table indicates with an “X”, the accessories, additional items and training.

DESCRIPTION	PARA	
Container Locks	3.11.1	X
Hydraulic Winch	3.11.2	X
Maintenance Manual – English	4.1.2 (e)	X
Maintenance Manual – French	4.1.2 (f)	X
Parts Manual	4.1.2 (g)	X
Training – Familiarization – English	4.2 (a)	X
Training – Familiarization – French	4.2 (b)	X

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2. **APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

SAE World Headquarters
400 Commonwealth Dr.,
Warrendale, PA, 15096-0001
<http://www.sae.org>

Canada Motor Vehicle Safety Act (CMVSA)

Government of Canada / Transport Canada,
<http://www.tc.gc.ca/eng/acts-regulations/acts-1993c16.htm>

Federal Standard 595C

COLOURS USED IN GOVERNMENT PROCUREMENT
U.S. General Services Administration
<http://www.fed-std-595.com/FS-595-Paint-Spec.html>

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3. REQUIREMENTS

3.1 Standard Design

- (a) The trailer system *must* be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of equipment for at least three (3) years;
- (b) The trailer system *must* include all components, equipment and accessories normally supplied for this application, although they may not be specifically described in this Purchase Description;
- (c) The trailer system *must* have engineering certification available, upon request, for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The trailer system *must* conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The trailer system and accessories *must* operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather

- (a) The trailer system *must* operate safely and effectively throughout a temperature range of -40° to 37° C, without degradation in performance, reliability and maintainability.

3.2.2 Terrain

- (a) The trailer system *must* operate safely and effectively on paved roads, gravel roads and dirt roads with severe washboard and pot holes, in all-weather conditions and with the stated payload, without degradation in performance, reliability and maintainability.

3.3 Safety Standards

3.3.1 Vehicle Safety Regulations

- (a) The trailer system *must* meet the provisions of the *Canada Motor Vehicle Safety Act*.

3.3.2 Hazardous Materials

- (a) The Contractor *must* minimize or eliminate the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals (as described in the Hazardous Products Act of Canada) when manufacturing the semi-trailer.

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3.3.3 **Safety Features**

- (a) The trailer system *must* be provided with the safety features such as warning and instruction plates, non-slip walking surfaces and heat shields where required for operator safety.

3.4 **Performance**

3.4.1 **Trailer Performance**

- (a) The trailer system *must* be towed safely at a continuous speed of at least 89 km/h with the stated payload.

3.4.2 **Load Performance**

- (a) The trailer system *must* carry a uniformly distributed load of at least that given as “**TRAILER SYSTEM CAPACITY**” in the Data Table (Paragraph 1.4).

3.4.3 **Operating Modes**

- (a) The trailer system *must* carry the stated payload while in the following modes:
 - i Double Drop – Main deck of the semi-trailer is lower than the rear deck, payload is evenly distributed across main deck; and
 - ii Single Drop – Main deck is level with the rear deck, payload is evenly distributed across main and rear decks.
- (b) The semi-trailer *must* operate independently (without the jeep) when required and carry the stated payload.

3.5 **Trailer System Construction**

3.5.1 **Dimensions**

- (a) The semi-trailer *must* have a nominal overall length of that given as “**SEMI-TRAILER LENGTH**” in the Data Table (Paragraph 1.4);
- (b) The semi-trailer *must* have a nominal overall width of that given as “**SEMI-TRAILER WIDTH**” in the Data Table (Paragraph 1.4);
- (c) Each kingpin installed on the semi-trailer *must* have an operating height range of that given as “**SEMI-TRAILER KINGPIN OPERATING HEIGHT RANGE**” in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate;
- (d) The semi-trailer *must* have swing clearances suitable for the jeep and tri-axle tractors.
- (e) The jeep *must* have a nominal overall width of that given as “**JEEP WIDTH**” in the Data Table (Paragraph 1.4);
- (f) The jeep *must* operate with the kingpin at a nominal height of that given as “**JEEP KINGPIN HEIGHT**” in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate; and



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- (g) The jeep *must* have a swing clearance suitable for dual-axle tractors.

3.5.2 **Kingpin**

- (a) The trailer system *must* be provided with 51 mm (2 in) kingpins.

3.5.3 **Main Deck**

- (a) The semi-trailer *must* be provided with a main deck with a hydraulically adjustable deck height, allowing the semi-trailer to convert between Single Drop and Double Drop modes;
- (b) The main deck, when laden and in the highest transport position (Single Drop mode), *must* have a maximum deck height of 1,120 mm;
- (c) The main deck, when laden and in the lowest transport position (Double Drop mode), *must* have a maximum deck height of 660 mm;
- (d) The main deck, when laden and in the lowest transport position (Double Drop mode), *must* have a minimum deck ground clearance of 254 mm; and
- (e) The main deck *must* have a minimum length of 7,315 mm;

3.5.4 **Frame**

- (a) The semi-trailer *must* be provided with a frame that is reinforced for towing points.

3.5.5 **Decking Floor**

- (a) The semi-trailer *must* be provided with a full and continuous main and rear decks, with no openings; frame flanges are permitted to be part of the deck surface;
- (b) The main and rear deck floors *must* consist of replaceable wood planks of sufficient thickness to accommodate the load; checker plates are permitted to be part of the rear deck surface where required; and
- (c) The wood planks *must* be treated with Linseed oil or **equivalent** weather proofing treatment.

3.5.6 **Bridging Plates**

- (a) The semi-trailer *must* be provided with bridging plates located between the main deck and the rear deck to accommodate vehicles.

3.5.7 **Towing points**

- (a) The semi-trailer *must* be provided with two (2) rear-mounted towing points, positioned and of sufficient strength to permit recovery of the loaded semi-trailer.

3.5.8 **Railway tie-down points**

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- (a) The semi-trailer *must* be provided with railway tie-down points, positioned and of sufficient strength to permit the securing and transportation of the loaded semi-trailer on a railroad car.

3.5.9 Deck-mounted D-Rings

- (a) The semi-trailer *must* be provided with deck-mounted D-rings mounted on top of the main and rear decks, with a minimum rated capacity of 8,700 kg each;
- (b) The D-rings *must* be evenly spaced, with nine (9) D-rings located on each side of the main deck, and four (4) D-rings located on each side of the rear deck;
- (c) The deck-mounted D-ring points *must* be recessed and flush-mounted to the deck, with drain holes; and
- (d) The deck-mounted tie-down points *must* be as close as possible to the edge, with a maximum of 203 mm from the side of the semi-trailer.

3.5.10 Side-mounted tie-down points

- (a) The semi-trailer *must* be provided with tie-down points mounted to the side of the main and rear decks, with a minimum rated capacity of 8,700 kg each;
- (b) The tie-down points *must* be evenly spaced, with eight (8) tie-down points located on each side of the main deck, and four (4) tie-down points located on each side of the rear deck; and
- (c) The semi-trailer *must* be provided with two (2) tie-down points on the exterior rear frame, with one (1) tie-down point located near each corner, with a rating of at least 8,700 kg each.

3.5.11 Gooseneck w/Jeep Adaptor

- (a) The semi-trailer *must* be provided with a hydraulically operated, removable gooseneck;
- (b) The gooseneck *must* be provided with a cam and lever locking mechanism to lock the gooseneck at various heights, without pins;
- (c) The gooseneck main vertical locking pin and pin lock *must* be air operated, with the controls on the exterior left side of the gooseneck;
- (d) The gooseneck kingpin plate *must* have full surface contact on the towing tractor kingpin plate in all loading conditions;
- (e) The gooseneck *must* be provided with a hydraulic jeep adaptor;
- (f) **Support Arm (Stinger)**
 - i The gooseneck *must* be provided with a hydraulic support arm to support the gooseneck during loading/unloading procedures; and
 - ii The hydraulic support arm *must* eliminate gooseneck movement while the gooseneck is attached to the towing tractor only, and the tractor is in motion;

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3.5.12 **Gooseneck-Mounted Tie-down points**

- (a) The semi-trailer *must* be provided with two (2) gooseneck-mounted tie-down points, one on each side, with a minimum rated capacity of 8,700 kg each.

3.5.13 **Front Loading Ramps**

- (a) The semi-trailer *must* be provided with two (2) tapered front loading ramps, one (1) on each side of the front end of the main deck, to facilitate the loading/unloading of heavy equipment;
- (b) The front loading ramps *must* be the flip-down type, and hinged to the main deck;
- (c) The front loading ramps *must* be as wide as physically permissible;
- (d) The front loading ramps angle to the ground *must* be less than or equal to 30 degrees; and
- (e) The front loading ramps *must* be securely stowed when not in use.

3.5.14 **Side Extensions**

- (a) The semi-trailer *must* be provided with side extensions on both sides of the main deck;
- (b) The side extensions *must* cover the whole length of the main deck;
- (c) The side extensions *must* add a minimum width of 254 mm to each side of the main deck;
- (d) The side extensions *must* be covered with removable wood planks that are similar to the main deck;
- (e) The wood planking *must* be equal in length to the main deck;
- (f) The side extensions *must* have a total load capacity equivalent to the main deck area;
- (g) The side extensions *must* be provided with a device to secure them in place while being used; and
- (h) The side extension *must* be stowed away to a secured position and be flush or below the top surface of the main deck.

3.5.15 **Bushings/Pins**

- (a) The semi-trailer *must* be provided with replaceable and/or grease-able bushings at all pin and pivot holes; and
- (b) All pins *must* have grooved/spiralled surfaces to allow grease to encircle the pin and reach the end plate.

3.6 **Chassis and Auxiliary Systems**

3.6.1 **Axles**

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- (a) The semi-trailer *must* be provided with a tri-axle configuration;
- (b) The jeep *must* be provided with a dual-axle configuration; and
- (c) The axles *must* be of appropriate capacity to carry the maximum payload specified in this document.

3.6.2 **Suspension**

- (a) The semi-trailer *must* be provided with an air bag suspension system;
- (b) The jeep *must* be provided with an air bag suspension system;
- (c) Each suspension system *must* include an automatic height control valve;
- (d) Each suspension system *must* include a manual suspension air dump valve;
- (e) The suspension systems *must* include shock absorbers acting on all wheel stations;
- (f) Each suspension system *must* include an air gauge to assist the operator in determining system pressure; and
- (g) Each suspension system *must* have suspension travel limiters, such as cables or chains fastened to the suspension beam or axle and the under frame, at a length equal to or less than the shock absorber extended stroke; the use of the shock absorbers as travel limiters is not acceptable.

3.6.3 **Wheels and Tires**

- (a) The trailer system *must* be provided with dual wheels and tires certified by the manufacturer to be suitably sized and rated for the application and load;
- (b) The dual-wheel assemblies *must* be identical across the trailer system;
- (c) The trailer system *must* be provided with written indications of the operating tire pressure at each wheel station;
- (d) The wheels *must* be provided with loose wheel nut indicators at each wheel station;
- (e) The semi-trailer *must* be provided with a hub-odometer reading in kilometres; and
- (f) The jeep *must* be provided with a hub-odometer reading in kilometres.

3.6.4 **Brake System**

- (a) The trailer system *must* be provided with an anti-lock, air disc brake system;
- (b) The brake system *must* be provided with remote, cable operated drain valves on the air reservoirs, with heated moisture expelling valve(s);
- (c) The brake housings *must* be equipped with dust shields;
- (d) The trailer system *must* be provided with colour coded glad hand couplers for interconnection between the trailer system and the tractor; and

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- (e) The trailer system *must* be provided with dummy glad hand coupler covers, including a safety chain/cable for each glad hand, to block and protect the air-lines when they are not in use.

3.6.5 **Landing Gear**

- (a) The jeep *must* be provided with a landing gear system; and
- (b) The landing gear system *must* withstand the weight of the fully loaded trailer system when not connected to the tractor.

3.7 **Hydraulic System**

- (a) The semi-trailer *must* be provided with a hydraulic system that supplies hydraulic power for all the functions on the semi-trailer;
- (b) The hydraulic system controls *must* be located in an illuminated compartment on the roadside of the gooseneck;
- (c) The hydraulic system reservoir tank *must* be provided with an intake filter screen, an external fluid level indicator, and an inspection plate located on top of the tank;
- (d) The hydraulic system *must* be provided with two hydraulic filters, one for the pressure line and the other for the return line; and
- (e) The hydraulic system *must* be provided with wet kit connectors (supply and return lines) located at the front of the gooseneck to operate all hydraulic components of the semi-trailer.

3.8 **Auxiliary Engine System**

- (a) The semi-trailer *must* be provided with one (1) auxiliary engine system to power the hydraulic system;
- (b) The engine *must* operate on gasoline fuel;
- (c) The engine *must* be mounted on appropriate mounts to reduce vibration;
- (d) The engine *must* be enclosed in a compartment;
- (e) Engine controls and instrument gauges *must* be enclosed in a weatherproof compartment on the roadside of the gooseneck;
- (f) The engine oil pan *must* be provided with a magnetic drain plug;
- (g) The engine exhaust *must* be shielded to prevent inadvertent contact with heated surfaces and directed away from the semi-trailer;
- (h) The engine *must* be provided with a manual fuel shut-off valve;
- (i) **Shut-Down Protection**
 - i The engine system *must* be provided with an automatic low oil pressure shutdown device; and

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ii The engine system *must* be provided with an automatic high temperature shutdown device.

(j) **Battery**

i The engine system *must* be provided with a maintenance-free battery; and

ii The battery *must* be enclosed in a weatherproof compartment.

(k) **Electrical System**

i The engine system *must* have a keyless “stop/start” switch; and

ii The engine system *must* be provided with an alternator that supports all operating loads and maintains the battery fully charged.

(l) **Fuel Tank**

i The engine system *must* be provided with a fuel tank; and

ii The fuel tank *must* be provided with a fuel gauge.

(m) **Instruments**

i The engine system *must* be provided with an hour meter with integral back lighting;

ii The engine system *must* be provided with a temperature gauge with integral back lighting;

iii The engine system *must* be provided with an oil pressure gauge with integral back lighting; and

iv The engine system *must* be provided with a voltmeter or ammeter with integral back lighting.

(n) **Filtration Systems**

i The engine system *must* be provided with dry type air filter with replaceable element(s); and

ii The engine system *must* be provided with spin-off replaceable oil and fuel filters.

(o) **Engine Compartment**

i The engine compartment *must* be accessible while the semi-trailer is loaded;

ii The engine compartment access door(s) *must* be mounted on hinges to allow the doors(s) to be swung open sideways or upwards;

iii The door(s) *must* be provided with a positive means to remain open while the operator is working on the engine;

iv The door(s) *must* be lockable;



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- v The compartment *must* have louvers to allow air flow into the engine compartment; and
- vi The engine compartment *must* be provided with working lights.

3.9 **Electrical System**

- (a) The trailer system *must* be provided with a 12-volt negative ground electrical system;
- (b) The electrical system *must* provide all power and control for the trailer system lighting and anti-lock brake system, while the trailer system is connected to the prime mover;
- (c) The electrical system *must* include a SAE J560 7-pin 12 volt semi-trailer receptacle, located in accordance with SAE J702;
- (d) The electrical system *must* include, as a minimum, electrical wiring used for the connection to the tractor vehicle intended for heavy-duty use, with positive engaging connectors, which are mounted securely to the system components;
- (e) Wiring *must* be protected by grommets when passing through metal;
- (f) The harnesses *must* be sealed harnesses and all connections treated with dielectric grease; and
- (g) All electrical components *must* be accessible for servicing.

3.10 **Lighting**

- (a) The trailer system *must* be provided with a lighting system conforming to CMVSS requirements;
- (b) The trailer system *must* be provided with LED body lighting;
- (c) Lights and reflectors *must* be recessed or otherwise protected from damage;
- (d) The semi-trailer *must* be provided with two (2) detachable amber strobe lights, one (1) at each rear corner of the flip axle structure, which activate when the trailer running lights are activated;
- (e) The semi-trailer *must* be provided with one (1) strobe light for the wide load sign, which activates when the trailer running lights are activated; and
- (f) The semi-trailer *must* be provided with wide load pull-out lights located at the front and rear corners of the semi-trailer.

3.11 **Miscellaneous Equipment**

3.11.1 **Dock Bumpers**

- (a) The semi-trailer *must* be provided with heavy-duty rubber dock bumpers at the rear corners, measuring nominally 102mm (4in) deep.

3.11.2 **Rear Bumper**

- (a) The semi-trailer *must* be provided with a rear bumper per CMVSS.

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3.11.3 **Storage Compartments**

- (a) The semi-trailer *must* be provided with two (2) lockable storage compartments;
- (b) The compartments *must* be of sufficient size to accommodate spare straps, chains and fluids;
- (c) The compartment floors *must* be covered with a durable surface, such as DRI decking, to help keep contents dry;
- (d) The compartment floors *must* be equipped with drain holes; and
- (e) The compartments *must* be located on top of the gooseneck.

3.11.4 **Spare Wheel Assemblies with Storage**

- (a) The semi-trailer *must* be provided with two (2) spare tire/wheel assemblies; and
- (b) The spare tire/wheel assemblies *must* be mounted on top of the gooseneck.

3.11.5 **Mud Flaps**

- (a) The trailer system *must* be provided with mud flaps located behind the rear axles of the semi-trailer and the jeep; and
- (b) The mud flaps *must* be made of plain black rubber with no logos displayed.

3.11.6 **License Plate Holder**

- (a) The trailer system *must* be provided with illuminated license plate holders located at the rear of the semi-trailer and the jeep.

3.11.7 **Conspicuity Tape**

- (a) The trailer system *must* be provided with conspicuity tape conforming to CMVSS requirements.

3.11.8 **Document Holder**

- (a) The semi-trailer *must* be provided with a document holder, located on the road side at the front.

3.11.9 **Identification Plate**

- (a) The trailer system *must* be provided with identification plates containing the following information as a minimum:
 - i Manufacturer, model, model year and serial number of the semi-trailer; and
 - ii GAWR and GVWR ratings;
- (b) The maximum payload capacity *must* be permanently and clearly marked in a location near the identification plate.

3.11.10 **Wide Load Sign**

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- (a) The semi-trailer **must** be provided with one (1) wide load sign and placard holder located at the rear of the trailer.

3.11.11 **Flag Holders**

- (a) The semi-trailer **must** be provided with four (4) flag holders located at the front and rear corners of the semi-trailer.

3.12 **Accessories** The accessories listed in the following paragraphs **must** be provided with the semi-trailer when specified in the solicitation.

3.12.1 **Container Locks**

- (a) The semi-trailer **must** be provided with eight (8) retractable ISO locks, able to accommodate one (1) 12.2m ISO container (Class/Designation “1A” IAW ISO 668) or two (2) 6.1m ISO containers (Class/Designation “1C” IAW ISO 668);
- (b) The ISO locks **must** be flush with the deck surface when not in use; and
- (c) The ISO locks **must** be located such that the semi-trailer can accommodate ISO containers as follows:
 - i 1x 12.2 m ISO container in Single Drop mode;
 - ii 2x 6.1 m ISO containers in Single Drop mode; and
 - iii 1x 6.1 m ISO container in Double Drop mode.

3.12.2 **Hydraulic Winch**

- (a) The semi-trailer **must** be provided with a hydraulic winch to load vehicles onto the main deck;
- (b) The winch **must** be located at the rear of the trailer below the rear deck level;
- (c) The winch first layer capacity **must** be a minimum of 13,608 kg;
- (d) The winch cable **must** have a minimum length of 35 m;
- (e) The winch **must** be provided with dual slope winch cable rollers at the front of the gooseneck;
- (f) The winch **must** be provided with an air-operated cable tensioner;
- (g) The winch **must** be provided with an air-operated winch free-wheel;
- (h) The winch **must** be provided with a remote control to operate the winch from a distance;
- (i) The winch **must** be provided with a four (4) roller fairlead; and
- (j) The winch **must** be provided with wet kit connectors nearby to operate the winch from an external source while the main deck is disconnected from the gooseneck.

3.13 **Paint and Corrosion Protection System**

3.13.1 **Paint**

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- (a) The trailer system *must* be painted in accordance with the manufacturer's best production procedures using standard commercial practices and materials, rendering a durable finish of the required film thickness and a smooth appearance free from runs, sags and orange peel;
- (b) DND Users
 - i The paint finish *must* be Olive Drab Green 34094 in accordance with FED STD 595C; and
 - ii Additional lettering and symbols on the outside of the trailer system *must* be flat black.
- (c) Non-DND Users
 - i The paint finish *must* be flat black; and
 - ii Additional lettering and symbols on the outside of the trailer system *must* be high contrast colour.

3.13.2 **Corrosion Protection System**

- (a) **Galvanic Corrosion**
 - i The trailer system *must* be protected against galvanic corrosion where dissimilar metals are used.
- (b) **Rust Prevention Coating**
 - i The trailer system *must* be provided with a rust prevention coating to the underbody, in addition to the standard factory rustproofing;
 - ii The rust prevention coating product applied *must* be Tectyl, Krown or Rust Check;
 - iii A decal *must* be affixed to the semi-trailer displaying the type of rust prevention coating used; and
 - iv Warranty papers covering the rust prevention coating *must* accompany the trailer system.

3.14 **Warning and Instruction Plates**

- (a) The warning and instruction plates *must* be within easy view of the user and in accordance with standard commercial practice;
- (b) The warning and instruction plates *must* be international symbols and/or bilingual (English and French) markings; and
- (c) Instruction plates *must* include engine operating instructions and any other special procedures for operating the trailer system.

3.15 **Trailer System Delivery Condition**

- (a) The trailer system *must* be delivered to destination in a fully operational condition (serviced and adjusted);



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- (b) The trailer system *must* be completely cleaned; and
- (c) The trailer system *must* be serviced with standard lubricants and fluids that are compatible with the delivery location and season.

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4. **INTEGRATED LOGISTIC SUPPORT**

4.1 **Contractor Documentation and Logistic Items**

4.1.1 **Documents to Technical Authority (Designated Contact) on Contract**

(a) **Manuals for Approval (DND Only)**

- i The Contractor **must** supply a set of manuals for each Configuration/model, in digital format, including the operator, parts and maintenance (shop repair) manuals. It is acceptable that manuals include more than one Configuration/model.
- ii The set of manuals **must** include manuals for all the specified accessories and features for the configuration/model. Accessory manuals may be included as supplements to the vehicle manuals.
- iii Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- iv Digital copies **must** be supplied on a CD or DVD.
- v Digital copies **must** be supplied in a searchable PDF format.
- vi A separate CD/DVD **must** be supplied for each Configuration/ Make/ Model with all accessories.
- vii The CD or DVD **must** be permanently and legibly marked with a list of contents.
- viii Manuals will not be returned.
- ix Manual approval, request for additional documentation or request for amendments will be supplied within 15 working days of receipt.
- x The Contractor **must** supply the additional documentation or implement the changes as requested by the **Technical Authority**.
- xi Paper copies of manuals delivered under this contract **must** have the same content as the electronic format approved by the **Technical Authority**.

(b) **Photographs and Line Drawings (DND Only)**

- i The Contractor **must** supply two (2) digital colour photographs, one left-front three-quarter full vehicle view, and one right-rear three-quarter full vehicle view of each Configuration/model;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;
- iii One front-view and one side-view line drawing showing dimensions of the vehicle **must** be supplied. Brochure line drawings are acceptable;
- iv Photographs **must** an plain background;

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- v Photographs *must* be in a JPEG (Joint Photographic Experts Group) format; and
 - vi Photographs *must* have a resolution of at least eight (8) Mega pixels.
- (c) **Load Analysis Drawing (DND Only)**
- i The Contractor *must* provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and
 - ii The load analysis drawing *must* be in PDF format supplied on a CD or a DVD.
- (d) **Data Summary (DND Only)**
- i The Contractor *must* supply a bilingual data summary for each Configuration/model, with vehicle data (including accessories and features) and a vehicle picture, for each DND contract;
 - ii The **Technical Authority** will supply a bilingual template of a data summary to the Contractor;
 - iii The Contractor *must* submit a digital copy (MS Word) of the completed data summary for approval;
 - iv Data summary approval or comments will be supplied within 15 working days of receipt; and
 - v The Contractor *must* provide responses to the **Technical Authority's** comments.
- (e) **Warranty Letter (All Users)**
- i The **Technical Authority** will supply a current bilingual warranty letter template to the Contractor;
 - ii The Contractor *must* supply a complete description of the warranty with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested;
 - iii The warranty letter *must* include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
 - iv The Contractor *must* supply a copy of the warranty letter, in PDF digital format, for each vehicle delivered, to the **Technical Authority** or the designated contact for non-DND users.
- (f) **Safety Data Sheets (DND Only)**
- i The Contractor *must* supply a list, in digital format, of all hazardous materials used on the vehicle;

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- ii If there are no hazardous materials are used, this *must* be stated on the list; and
- iii The Contractor *must* supply safety data sheets of all hazardous materials in the list.

4.1.2 **Items Supplied with Each Vehicle**

(a) **Operator's Manual(s)**

- i The Contractor *must* supply the *Technical Authority* approved bilingual operator's manual(s) in both paper and searchable PDF digital format with each vehicle delivered.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(b) **Warranty Letter(s)** - The Contractor *must* supply a paper copy of the warranty letter(s) with each vehicle delivered;

(c) **Safety Data Sheets**

- i The Contractor *must* supply a set of material safety data sheets; and
- ii The safety data sheets *must* be the same as those supplied to the **Technical Authority** (paragraph 4.1.1 (f)).

(d) **Line Setting Ticket**

- i The Contractor *must* produce a Line Setting Ticket, or equivalent, describing the components provided on the semi-trailer.
- ii The Contractor *must* supply the *Technical Authority* a Line Setting Ticket in both paper and searchable PDF digital format with each vehicle delivered.
- iii Digital copies *must* be supplied on a CD or a DVD.
- iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(e) **Maintenance Manual(s) - English**

- i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in English, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

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iv The Contractor may supply this deliverable as a bilingual package.

(f) **Maintenance Manual(s) – French**

i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in French, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.

ii Digital copies *must* be supplied on a CD or a DVD.

iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

iv The Contractor may supply this deliverable as a bilingual package.

(g) **Parts Manual(s)**

i The Contractor *must* supply the *Technical Authority* approved parts manual(s) in paper and searchable digital format, for the vehicle, features and accessories.

ii The parts manual(s) *must* be in English.

iii Digital copies *must* be supplied on a CD or a DVD.

iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

v It is desirable to provide the parts manual(s) in French in addition to the English version.

4.2 **Training**

(a) **Training – Familiarization - English**

i The Contractor *must* supply a familiarization course in English;

ii The instructor *must* be an OEM Factory Certified Training Provider;

iii The familiarization course *must* include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use and maintenance of all accessories supplied;

iv The instructor *must* supply responses to questions;

v The familiarization course *must* have a minimum duration of eight (8) hours;

vi The familiarization course *must* accommodate up to eight (8) personnel;

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- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped for users other than DND;
- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

(b) **Training – Familiarization - French**

- i The Contractor *must* supply a familiarization course in French;
- ii The instructor *must* be an OEM Factory Certified Training Provider;
- iii The familiarization course *must* include operation and maintenance segments demonstrating, all safety measures required for safe vehicle use, instructions on the use of all accessories supplied and maintenance;
- iv The instructor *must* supply responses to questions;
- v The familiarization course *must* have a minimum duration of eight (8) hours;
- vi The familiarization course *must* accommodate up to eight (8) personnel;
- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped for users other than DND;
- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

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NOTICE

This documentation has been reviewed by the **Technical Authority** and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'**Autorité technique** et ne contient pas de marchandises contrôlées.

1. SCOPE

1.1 **Scope** - This Purchase Description defines the requirements for a low bed semi-trailer with accessories. The semi-trailer will be used to transport heavy equipment, ISO containers and vehicles. Main configurations are as follows:

Configuration A – Double Drop, Variable Height, 35 Ton, payload, 53 ft

Configuration B – Double Drop, Ultra Low Deck, 30 Ton payload, 53 ft

1.2 **Instructions** – The following instructions apply to this Purchase Description:

- (a) Requirements, which are identified by the word “**must**”, are mandatory. Deviations will not be permitted;
- (b) Requirements identified by “**must**”..... or “**equivalent**” are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as a Technical Authority approved 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 “**must**”, “**must**”..... or “**equivalent**”, or “will” are not used, the information provided is for guidance only;
- (e) In this document “provided” means “provided and installed”;
- (f) Where a standard is specified and the Contractor has offered an **equivalent**, that equivalent standard **must** be supplied by the Contractor, at no cost to Canada, when authorized by the **Technical Authority**;
- (g) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **must** be provided for the semi-trailer when requested by the **Technical Authority** up until the date of the expiration of the warranty period;
- (h) While the SI system is used as the primary system of measurement to define requirements of this Purchase Description, both the SI system and the Standard system of measurements may be indicated. Conversions from one system of measurement to the other may not be exact; and

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- (i) Dimensions stated as nominal are 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**

- (a) **“Provided”** means “provided and installed”;
- (b) **“Technical Authority”** means the official responsible for the technical content of this Purchase Description;
- (c) **“Equivalent”** means a standard, means, or component type, which the Technical Authority has approved for this requirement as meeting the specified requirements for fit, form, function and performance;
- (d) **“Commercially Equipped”** means that the semi-trailer is provided in its standard commercial configuration with no additional government-specified requirements;
- (e) **“Road Legal”** means the semi-trailer can be legally operated on all Canadian highways and secondary roads, without restrictions or special permits;
- (f) **“Curb Weight”** (CW) means the weight of the fully equipped semi-trailer. The curb weight includes all attached accessories and equipment. The Curb Weight does not include the Payload;
- (g) **“Payload”** means the maximum cargo load carrying capacity of the semi-trailer. The payload is the calculated difference between the Gross Vehicle Weight Rating and the Curb Weight;
- (h) **“Gross Axle Weight Rating”** (GAWR) means the gross axle weight rating, which is the maximum axle load allowed by the manufacturer for this application; and
- (i) **“Gross Vehicle Weight Rating”** (GVWR) means the maximum operating weight of the semi-trailer as stated by manufacturer.

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1.4 **Data Table** - The following table shows the required performance and dimensions for each Configuration and includes paragraph references:

CHARACTERISTIC	PARA	UNITS	CONFIGURATION	
			A	B
TRAILER CAPACITY	3.4.2	kg	31,752	27,216
TRAILER LENGTH	3.4.4 (a)	mm	16,150	16,150
TRAILER WIDTH	3.4.4 (b)	mm	2,590	2,590
KINGPIN OPERATING HEIGHT RANGE	3.4.4 (c)	mm	1,219 – 1,400	1,219 – 1,400
MIN LWC	3.4.4 (d)	mm	2,700	2,060
AXLES CONFIGURATION	3.6.1	-	Tridem	Tandem + Flip axle

1.4.1 **Accessory Table** - The following table indicates with an “X” and by Configuration, the features, accessories, additional items and training.

DESCRIPTION	PARA	CONFIGURATION	
		A	B
Container Locks	3.10.1	X	
Hydraulic Winch	3.10.2	X	X
Wide Load Package	3.10.3	X	X
Maintenance Manual – English	4.1.2 (e)	X	X
Maintenance Manual – French	4.1.2 (f)	X	X
Parts Manual	4.1.2 (g)	X	X
Training – Familiarization – English	4.2 (a)	X	X
Training – Familiarization – French	4.2 (b)	X	X

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2. APPLICABLE DOCUMENTS - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

SAE World Headquarters
400 Commonwealth Dr.,
Warrendale, PA, 15096-0001
<http://www.sae.org>

Canada Motor Vehicle Safety Act (CMVSA)

Government of Canada / Transport Canada,
<http://www.tc.gc.ca/eng/acts-regulations/acts-1993c16.htm>

Federal Standard 595C

COLOURS USED IN GOVERNMENT PROCUREMENT
U.S. General Services Administration
<http://www.fed-std-595.com/FS-595-Paint-Spec.html>

3. REQUIREMENTS

3.1 Standard Design

- (a) The semi-trailer **must** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of equipment for at least three (3) years;
- (b) The semi-trailer **must** include all components, equipment and accessories normally supplied for this application, although they may not be specifically described in this Purchase Description;
- (c) The semi-trailer **must** have engineering certification available, upon request, for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The semi-trailer **must** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The semi-trailer and accessories **must** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather

- (a) The semi-trailer **must** operate safely and effectively throughout a temperature range of -40° to 37° C, without degradation in performance, reliability and maintainability.

3.2.2 Terrain

- (a) The semi-trailer **must** operate safely and effectively on paved roads, gravel roads and dirt roads with severe washboard and pot holes, in all-weather conditions and with the stated payload, without degradation in performance, reliability and maintainability.

3.3 Safety Standards

3.3.1 Vehicle Safety Regulations

- (a) The semi-trailer **must** meet the provisions of the *Canada Motor Vehicle Safety Act*.

3.3.2 Hazardous Materials

- (a) The Contractor **must** minimize or eliminate the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals (as described in the Hazardous Products Act of Canada) when manufacturing the semi-trailer.

3.3.3 Safety Features

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- (a) The semi-trailer *must* be provided with the safety features such as warning and instruction plates, non-slip walking surfaces and heat shields where required for operator safety.

3.4 **Performance**

3.4.1 **Trailer Performance**

- (a) The semi-trailer *must* be towed safely at a continuous speed of at least 89 km/h with the stated payload.

3.4.2 **Load Performance**

- (a) The semi-trailer *must* carry a uniformly distributed load of at least that given as “**TRAILER CAPACITY**” in the Data Table (Paragraph 1.4).

3.4.3 **Operating Modes** - The semi-trailer *must* carry stated payload while in the following modes:

3.4.3.1 **Configuration A**

- (a) Double Drop – Main deck is lower than the rear deck, payload is evenly distributed across main deck; and
- (b) Single Drop – Main deck is level with the rear deck, payload is evenly distributed across main and rear decks.

3.4.3.2 **Configuration B**

- (a) Flip axle stowed – Reduced payload evenly distributed across main deck; and
- (b) Flip axle deployed – Payload evenly distributed across main deck.

3.4.4 **Dimensions**

- (a) The semi-trailer *must* have a nominal overall length of that given as “**TRAILER LENGTH**” in the Data Table (Paragraph 1.4);
- (b) The semi-trailer *must* have a nominal overall width of that given as “**TRAILER WIDTH**” in the Data Table (Paragraph 1.4);
- (c) The semi-trailer *must* operate with the kingpin at a height range of that given as “**KINGPIN OPERATING HEIGHT RANGE**” in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate; and
- (d) The semi-trailer *must* have a minimum landing wheel clearance from kingpin (LWC) of that given as “**MIN LWC**” in the Data Table (Paragraph 1.4).

3.5 **Semi-Trailer Construction**

3.5.1 **Kingpin**

- (a) The semi-trailer *must* be provided with a 51 mm (2 in) kingpin.

3.5.2 **Main Deck**

3.5.2.1 **Configuration A**

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- (a) The semi-trailer **must** be provided with a main deck with a hydraulically adjustable deck height, allowing the semi-trailer to convert between Single Drop and Double Drop modes;
- (b) The main deck, when laden and in the highest transport position (Single Drop mode), **must** have a maximum deck height of 1,120 mm;
- (c) The main deck, when laden and in the lowest transport position (Double Drop mode), **must** have a maximum deck height of 660 mm;
- (d) The main deck, when laden and in the lowest transport position (Double Drop mode), **must** have a minimum deck ground clearance of 254 mm; and
- (e) The main deck **must** have a minimum length of 7,315 mm.

3.5.2.2 Configuration B

- (a) The main deck, when laden, **must** have a maximum deck height of 508 mm;
- (b) The main deck, when laden, **must** have a minimum deck ground clearance of 152 mm; and
- (c) The main deck **must** have a minimum length of 10,668 mm.

3.5.3 Frame

- (a) The semi-trailer **must** be provided with a frame that is reinforced for towing points.

3.5.4 Decking Floor

3.5.4.1 Configuration A

- (a) The semi-trailer **must** be provided with a full and continuous main and rear decks, with no openings; frame flanges are permitted to be part of the deck surface;
- (b) The main and rear deck floors **must** consist of replaceable wood planks of sufficient thickness to accommodate the load; checker plates are permitted to be part of the rear deck surface where required; and
- (c) The wood planks **must** be treated with Linseed oil or **equivalent** weather proofing treatment.

3.5.4.2 Configuration B

- (a) The semi-trailer **must** be provided with a full and continuous main deck, with no openings; frame flanges are permitted to be part of the deck surface;
- (b) The main deck floor **must** consist of replaceable wood planks of sufficient thickness to accommodate the load; and
- (c) The wood planks **must** be treated with Linseed oil or **equivalent** weather proofing treatment.

3.5.5 Bridging Plates

3.5.5.1 Configuration A

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- (a) The semi-trailer **must** be provided with bridging plates located between the main deck and the rear deck to accommodate vehicles.

3.5.6 Towing points

- (a) The semi-trailer **must** be provided with two (2) rear-mounted towing points, positioned and of sufficient strength to permit recovery of the loaded semi-trailer.

3.5.7 Railway tie-down points

- (a) The semi-trailer **must** be provided with railway tie-down points, positioned and of sufficient strength to permit the securing and transportation of the loaded semi-trailer on a railroad car.

3.5.8 Deck-mounted D-Rings

3.5.8.1 Configuration A

- (a) The semi-trailer **must** be provided with deck-mounted D-rings mounted on top of the main and rear decks, with a minimum rated capacity of 8,700 kg each;
- (b) The D-rings **must** be evenly spaced, with nine (9) D-rings located on each side of the main deck, and four (4) D-rings located on each side of the rear deck;
- (c) The deck-mounted D-rings points **must** be recessed and flush-mounted to the deck, with drain holes; and
- (d) The deck-mounted tie-down points **must** be as close as possible to the edge, with a maximum of 203 mm from the side of the semi-trailer.

3.5.8.2 Configuration B

- (a) The semi-trailer **must** be provided with deck-mounted D-rings mounted on top of the main deck, with a minimum rated capacity of 8,700 kg each;
- (b) The D-rings **must** be evenly spaced, with nine (9) D-rings located on each side of the main deck;
- (c) The deck-mounted D-rings points **must** be recessed and flush-mounted to the main deck, with drain holes; and
- (d) The deck-mounted tie-down points **must** be as close as possible to the edge, with a maximum of 203 mm from the side of the semi-trailer.

3.5.9 Side-mounted tie-down points

3.5.9.1 Configuration A

- (a) The semi-trailer **must** be provided with tie-down points mounted to the side of the main and rear decks, with a minimum rated capacity of 8,700 kg each;
- (b) The tie-down points **must** be evenly spaced, with eight (8) tie-down points located on each side of the main deck, and four (4) tie-down points located on each side of the rear deck; and

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- (c) The semi-trailer **must** be provided with two (2) tie-down points on the exterior rear frame, with one (1) tie-down point located near each corner, with a rating of at least 8,700 kg each.

3.5.9.2 Configuration B

- (a) The semi-trailer **must** be provided with tie-down points mounted to the side of the main and rear decks, with a minimum rated capacity of 8,700 kg each;
- (b) The tie-down points **must** be evenly spaced, with ten (10) tie-down points located on each side of the main deck, and four (2) tie-down points located on each side of the rear deck; and
- (c) The semi-trailer **must** be provided with two (2) tie-down points on the exterior rear frame, with one (1) tie-down point located near each corner, with a rating of at least 8,700 kg each.

3.5.10 Gooseneck

- (a) The semi-trailer **must** be provided with a hydraulically operated, removable gooseneck;
- (b) The gooseneck **must** be provided with a cam and lever locking mechanism to lock the gooseneck at various heights, without pins;
- (c) The gooseneck main vertical locking pin and pin lock **must** be air operated, with the controls on the exterior left side of the gooseneck;
- (d) The gooseneck kingpin plate **must** have full surface contact on the towing tractor kingpin plate in all loading conditions;
- (e) **Support Arm (Stinger)**
 - i The gooseneck **must** be provided with a hydraulic support arm to support the gooseneck during loading/unloading procedures; and
 - ii The hydraulic support arm **must** eliminate gooseneck movement while the gooseneck is attached to the towing tractor only, and the tractor is in motion;

3.5.11 Gooseneck-Mounted Tie-down points

- (a) The semi-trailer **must** be provided with two (2) gooseneck-mounted tie-down points, one on each side, with a minimum rated capacity of 8,700 kg each.

3.5.12 Front Loading Ramps

- (a) The semi-trailer **must** be provided with two (2) tapered front loading ramps, one (1) on each side of the front end of the main deck, to facilitate the loading/unloading of heavy equipment;
- (b) The front loading ramps **must** be the flip-down type, and hinged to the main deck;
- (c) The front loading ramps **must** be as wide as physically permissible;

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- (d) The front loading ramps angle to the ground *must* be less than or equal to 30 degrees; and
- (e) The front loading ramps *must* be securely stowed when not in use.

3.5.13 Bushings/Pins

- (a) The semi-trailer *must* be provided with replaceable and/or grease-able bushings at all pin and pivot holes; and
- (b) All pins *must* have grooved/spiralled surfaces to allow grease to encircle the pin and reach the end plate.

3.6 Chassis and Auxiliary Systems

3.6.1 Axles

3.6.1.1 All Configurations

- (a) The semi-trailer *must* be provided with the axle configuration as specified as “**AXLES CONFIGURATION**” in the Data Table (Paragraph 1.4); and
- (b) The axles *must* be of appropriate capacity to carry the maximum payload specified in this document.

3.6.1.2 Configuration B

- (a) The semi-trailer *must* be provided with a flip axle;
- (b) The flip axle *must* be attached to the rear of the semi-trailer and stowed above the main axles when not in use; and
- (c) The flip axle *must* be operated by the hydraulic system of the semi-trailer to deploy it and stow it away.

3.6.2 Suspension

- (a) The semi-trailer *must* be provided with an air bag suspension system;
- (b) The suspension system *must* include an automatic height control valve;
- (c) The suspension system *must* include a manual suspension air dump valve;
- (d) The suspension system *must* include shock absorbers acting on all wheel stations;
- (e) The suspension system *must* include an air gauge to assist the operator in determining system pressure; and
- (f) The suspension system *must* have suspension travel limiters, such as cables or chains fastened to the suspension beam or axle and the under frame, at a length equal to or less than the shock absorber extended stroke; the use of the shock absorbers as travel limiters is not acceptable.

3.6.3 Wheels and Tires

- (a) The semi-trailer *must* be provided with dual wheels and tires certified by the manufacturer to be suitably sized and rated for the application and load;

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- (b) The dual-wheel assemblies *must* be identical across the trailer system;
- (c) The semi-trailer *must* be provided with written indications of the operating tire pressure at each wheel station;
- (d) The wheels *must* be provided with loose wheel nut indicators at each wheel station; and
- (e) The semi-trailer *must* be provided with a hub-odometer reading in kilometres.

3.6.4 Brake System

- (a) The semi-trailer *must* be provided with an anti-lock, air disc brake system;
- (b) The brake system *must* be provided with remote, cable operated drain valves on the air reservoirs, with heated moisture expelling valve(s);
- (c) The brake housings *must* be equipped with dust shields;
- (d) The semi-trailer *must* be provided with colour coded glad hand couplers for interconnection between semi-trailer and tractor; and
- (e) The semi-trailer *must* be provided with dummy glad hand coupler covers, including a safety chain/cable for each glad hand, to block and protect the air-lines when they are not in use.

3.7 Hydraulic System

- (a) The semi-trailer *must* be provided with a hydraulic system that supplies hydraulic power for all the functions on the semi-trailer;
- (b) The hydraulic system controls *must* be located in an illuminated compartment on the roadside of the gooseneck;
- (c) The hydraulic system reservoir tank *must* be provided with an intake filter screen, an external fluid level indicator, and an inspection plate located on top of the tank;
- (d) The hydraulic system *must* be provided with two hydraulic filters, one for the pressure line and the other for the return line; and
- (e) The hydraulic system *must* be provided with wet kit connectors (supply and return lines) located at the front of the gooseneck to operate all hydraulic components of the semi-trailer.

3.8 Auxiliary Engine System

- (a) The semi-trailer *must* be provided with one (1) auxiliary engine system to power the hydraulic system;
- (b) The engine *must* operate on gasoline fuel;
- (c) The engine *must* be mounted on appropriate mounts to reduce vibration;
- (d) The engine *must* be enclosed in a compartment;
- (e) Engine controls and instrument gauges *must* be enclosed in a weatherproof compartment on the roadside of the gooseneck;

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- (f) The engine oil pan *must* be provided with a magnetic drain plug;
- (g) The engine exhaust *must* be shielded to prevent inadvertent contact with heated surfaces and directed away from the semi-trailer;
- (h) The engine *must* be provided with a manual fuel shut-off valve;
- (i) **Shut-Down Protection**
 - i The engine system *must* be provided with an automatic low oil pressure shutdown device; and
 - ii The engine system *must* be provided with an automatic high temperature shutdown device.
- (j) **Battery**
 - i The engine system *must* be provided with a maintenance-free battery; and
 - ii The battery *must* be enclosed in a weatherproof compartment.
- (k) **Electrical System**
 - i The engine system *must* have a keyless “stop/start” switch; and
 - ii The engine system *must* be provided with an alternator that supports all operating loads and maintains the battery fully charged.
- (l) **Fuel Tank**
 - i The engine system *must* be provided with a fuel tank; and
 - ii The fuel tank *must* be provided with a fuel gauge.
- (m) **Instruments**
 - i The engine system *must* be provided with an hour meter with integral back lighting;
 - ii The engine system *must* be provided with a temperature gauge with integral back lighting;
 - iii The engine system *must* be provided with an oil pressure gauge with integral back lighting; and
 - iv The engine system *must* be provided with a voltmeter or ammeter with integral back lighting.
- (n) **Filtration Systems**
 - i The engine system *must* be provided with dry type air filter with replaceable element(s); and
 - ii The engine system *must* be provided with spin-off replaceable oil and fuel filters.
- (o) **Engine Compartment**

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- i The engine compartment *must* be accessible while the semi-trailer is loaded;
- ii The engine compartment access door(s) *must* be mounted on hinges to allow the doors(s) to be swung open sideways or upwards;
- iii The door(s) *must* be provided with a positive means to remain open while the operator is working on the engine;
- iv The door(s) *must* be lockable;
- v The compartment *must* have louvers to allow air flow into the engine compartment; and
- vi The engine compartment *must* be provided with working lights.

3.9 **Electrical System**

- (a) The semi-trailer *must* be provided with a 12 volt negative ground electrical system;
- (b) The electrical system *must* provide all power and control for the semi-trailer lighting and anti-lock brake system, while the semi-trailer is connected to the prime mover;
- (c) The electrical system *must* include a SAE J560 7-pin 12 volt semi-trailer receptacle, located in accordance with SAE J702;
- (d) The electrical system *must* include, as a minimum, electrical wiring used for the connection to the tractor vehicle intended for heavy-duty use, with positive engaging connectors, which are mounted securely to the system components;
- (e) Wiring *must* be protected by grommets when passing through metal;
- (f) The harnesses *must* be sealed harnesses and all connections treated with dielectric grease; and
- (g) All electrical components *must* be accessible for servicing.

3.10 **Lighting**

- (a) The semi-trailer *must* be provided with a lighting system conforming to CMVSS requirements;
- (b) The semi-trailer *must* be provided with LED body lighting;
- (c) Lights and reflectors *must* be recessed or otherwise protected from damage; and
- (d) The semi-trailer *must* be provided with two (2) detachable amber strobe lights, one (1) at each rear corner, which activate when the trailer running lights are activated.

3.11 **Miscellaneous Equipment**

3.11.1 **Dock Bumpers**

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- (a) The semi-trailer *must* be provided with heavy-duty rubber dock bumpers at the rear corners, measuring nominally 102mm (4 in) deep.

3.11.2 **Rear Bumper**

- (a) The semi-trailer *must* be provided with a rear bumper per CMVSS.

3.11.3 **Storage Compartments**

- (a) The semi-trailer *must* be provided with two (2) lockable storage compartments;
- (b) The compartments *must* be of sufficient size to accommodate spare straps, chains and fluids;
- (c) The compartment floors *must* be covered with a durable surface, such as DRI decking, to help keep contents dry;
- (d) The compartment floors *must* be equipped with drain holes; and
- (e) The compartments *must* be located on top of the gooseneck.

3.11.4 **Spare Wheel Assemblies with Storage**

- (a) The semi-trailer *must* be provided with two (2) spare tire/wheel assemblies; and
- (b) The spare tire/wheel assemblies *must* be mounted on top of the gooseneck.

3.11.5 **Mud Flaps**

- (a) The semi-trailer *must* be provided with mud flaps located behind the rear axle; and
- (b) The mud flaps *must* be made of plain black rubber with no logos displayed.

3.11.6 **License Plate Holder**

- (a) The semi-trailer *must* be provided with an illuminated license plate holder located at the rear.

3.11.7 **Conspicuity Tape**

- (a) The semi-trailer *must* be provided with conspicuity tape conforming to CMVSS requirements.

3.11.8 **Document Holder**

- (a) The semi-trailer *must* be provided with a document holder, located on the road side at the front.

3.11.9 **Identification Plate**

- (a) The semi-trailer *must* be provided with an identification plate containing the following information as a minimum:
- i Manufacturer, model, model year and serial number of the semi-trailer; and

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- ii GAWR and GVWR ratings;
 - (b) The maximum payload capacity *must* be permanently and clearly marked in a location near the identification plate.
- 3.12 **Accessories** The accessories listed in the following paragraphs *must* be provided with the semi-trailer when specified in the solicitation.
- 3.12.1 **Container Locks**
- 3.12.1.1 **Configuration A**
- (a) The semi-trailer *must* be provided with eight (8) retractable ISO locks, able to accommodate one (1) 12.2m ISO container (Class/Designation “1A” IAW ISO 668) or two (2) 6.1m ISO containers (Class/Designation “1C” IAW ISO 668);
 - (b) The ISO locks *must* be flush with the deck surface when not in use; and
 - (c) The ISO locks *must* be located such that the semi-trailer can accommodate ISO containers as follows:
 - i 1x 12.2 m ISO container in Single Drop mode;
 - ii 2x 6.1 m ISO containers in Single Drop mode; and
 - iii 1x 6.1 m ISO container in Double Drop mode.
- 3.12.2 **Hydraulic Winch**
- (a) The semi-trailer *must* be provided with a hydraulic winch to load vehicles onto the main deck;
 - (b) The winch *must* be located at the rear of the trailer below the rear deck level;
 - (c) The winch first layer capacity *must* be a minimum of 13,608 kg;
 - (d) The winch cable *must* have a minimum length of 35 m;
 - (e) The winch *must* be provided with dual slope winch cable rollers at the front of the gooseneck;
 - (f) The winch *must* be provided with an air-operated cable tensioner;
 - (g) The winch *must* be provided with an air-operated winch free-wheel;
 - (h) The winch *must* be provided with a remote control to operate the winch from a distance;
 - (i) The winch *must* be provided with a four (4) roller fairlead; and
 - (j) The winch *must* be provided with wet kit connectors nearby to operate the winch from an external source while the main deck is disconnected from the gooseneck.
- 3.12.3 **Wide Load Package**
- (a) **Side Extensions**



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- i The semi-trailer **must** be provided with side extensions on both sides of the main deck;
- ii The side extensions **must** cover the whole length of the main deck;
- iii The side extensions **must** add a minimum width of 254 mm to each side of the main deck;
- iv The side extensions **must** be covered with removable wood planks that are similar to the main deck;
- v The wood planking **must** be equal in length to the main deck;
- vi The side extensions **must** have a total load capacity equivalent to the main deck area;
- vii The side extensions **must** be provided with a device to secure them in place while being used; and
- viii The side extension **must** be stowed away to a secured position and be flush or below the top surface of the main deck.

(b) Wide Load Sign

- i The semi-trailer **must** be provided with one (1) wide load sign and placard holder located at the rear of the trailer.

(c) Flag Holders

- i The semi-trailer **must** be provided with four (4) flag holders located at the front and rear corners of the semi-trailer.

(d) Lighting

- i The semi-trailer **must** be provided with one (1) strobe light for the wide load sign, which activates when the trailer running lights are activated; and
- ii The semi-trailer **must** be provided with wide load pull-out lights located at the front and rear corners of the semi-trailer.

3.13 **Paint and Corrosion Protection System**

3.13.1 **Paint**

- (a) The semi-trailer **must** be painted in accordance with the manufacturer's best production procedures using standard commercial practices and materials, rendering a durable finish of the required film thickness and a smooth appearance free from runs, sags and orange peel;

(b) DND Users

- i The paint finish **must** be Olive Drab Green 34094 in accordance with FED STD 595C; and
- ii Additional lettering and symbols on the outside of the semi-trailer **must** be flat black.

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- (c) Non-DND Users
 - i The paint finish *must* be flat black; and
 - ii Additional lettering and symbols on the outside of the semi-trailer *must* be high contrast colour.

3.13.2 **Corrosion Protection System**

- (a) **Galvanic Corrosion**
 - i The semi-trailer *must* be protected against galvanic corrosion where dissimilar metals are used.
- (b) **Rust Prevention Coating**
 - i The semi-trailer *must* be provided with a rust prevention coating to the underbody, in addition to the standard factory rustproofing;
 - ii The rust prevention coating product applied *must* be Tectyl, Krown or Rust Check;
 - iii A decal *must* be affixed to the semi-trailer displaying the type of rust prevention coating used; and
 - iv Warranty papers covering the rust prevention coating *must* accompany the semi-trailer.

3.14 **Warning and Instruction Plates**

- (a) The warning and instruction plates *must* be within easy view of the user and in accordance with standard commercial practice;
- (b) The warning and instruction plates *must* be international symbols and/or bilingual (English and French) markings; and
- (c) Instruction plates *must* include engine operating instructions and any other special procedures for operating the semi-trailer.

3.15 **Semi-Trailer Delivery Condition**

- (a) The semi-trailer *must* be delivered to destination in a fully operational condition (serviced and adjusted);
- (b) The semi-trailer *must* be completely cleaned; and
- (c) The semi-trailer *must* be serviced with standard lubricants and fluids that are compatible with the delivery location and season.

4. **INTEGRATED LOGISTIC SUPPORT**

4.1 **Contractor Documentation and Logistic Items**

4.1.1 **Documents to Technical Authority (Designated Contact) on Contract**

(a) **Manuals for Approval (DND Only)**

- i The Contractor **must** supply a set of manuals for each Configuration/model, in digital format, including the operator, parts and maintenance (shop repair) manuals. It is acceptable that manuals include more than one Configuration/model.
- ii The set of manuals **must** include manuals for all the specified accessories and features for the configuration/model. Accessory manuals may be included as supplements to the vehicle manuals.
- iii Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- iv Digital copies **must** be supplied on a CD or DVD.
- v Digital copies **must** be supplied in a searchable PDF format.
- vi A separate CD/DVD **must** be supplied for each Configuration/ Make/ Model with all accessories.
- vii The CD or DVD **must** be permanently and legibly marked with a list of contents.
- viii Manuals will not be returned.
- ix Manual approval, request for additional documentation or request for amendments will be supplied within 15 working days of receipt.
- x The Contractor **must** supply the additional documentation or implement the changes as requested by the **Technical Authority**.
- xi Paper copies of manuals delivered under this contract **must** have the same content as the electronic format approved by the **Technical Authority**.

(b) **Photographs and Line Drawings (DND Only)**

- i The Contractor **must** supply two (2) digital colour photographs, one left-front three-quarter full vehicle view, and one right-rear three-quarter full vehicle view of each Configuration/model;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;
- iii One front-view and one side-view line drawing showing dimensions of the vehicle **must** be supplied. Brochure line drawings are acceptable;
- iv Photographs **must** an plain background;

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- v Photographs *must* be in a JPEG (Joint Photographic Experts Group) format; and
 - vi Photographs *must* have a resolution of at least eight (8) Mega pixels.
- (c) **Load Analysis Drawing (DND Only)**
- i The Contractor *must* provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and
 - ii The load analysis drawing *must* be in PDF format supplied on a CD or a DVD.
- (d) **Data Summary (DND Only)**
- i The Contractor *must* supply a bilingual data summary for each Configuration/model, with vehicle data (including accessories and features) and a vehicle picture, for each DND contract;
 - ii The **Technical Authority** will supply a bilingual template of a data summary to the Contractor;
 - iii The Contractor *must* submit a digital copy (MS Word) of the completed data summary for approval;
 - iv Data summary approval or comments will be supplied within 15 working days of receipt; and
 - v The Contractor *must* provide responses to the **Technical Authority's** comments.
- (e) **Warranty Letter (All Users)**
- i The **Technical Authority** will supply a current bilingual warranty letter template to the Contractor;
 - ii The Contractor *must* supply a complete description of the warranty with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested;
 - iii The warranty letter *must* include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
 - iv The Contractor *must* supply a copy of the warranty letter, in PDF digital format, for each vehicle delivered, to the **Technical Authority** or the designated contact for non-DND users.
- (f) **Safety Data Sheets (DND Only)**
- i The Contractor *must* supply a list, in digital format, of all hazardous materials used on the vehicle;
 - ii If there are no hazardous materials are used, this *must* be stated on the list; and

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- iii The Contractor *must* supply safety data sheets of all hazardous materials in the list.

4.1.2 **Items Supplied with Each Vehicle**

(a) **Operator's Manual(s)**

- i The Contractor *must* supply the *Technical Authority* approved bilingual operator's manual(s) in both paper and searchable PDF digital format with each vehicle delivered.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(b) **Warranty Letter(s)** - The Contractor *must* supply a paper copy of the warranty letter(s) with each vehicle delivered;

(c) **Safety Data Sheets**

- i The Contractor *must* supply a set of material safety data sheets; and
- ii The safety data sheets *must* be the same as those supplied to the **Technical Authority** (paragraph 4.1.1 (f)).

(d) **Line Setting Ticket**

- i The Contractor *must* produce a Line Setting Ticket, or equivalent, describing the components provided on the semi-trailer.
- ii The Contractor *must* supply the *Technical Authority* a Line Setting Ticket in both paper and searchable PDF digital format with each vehicle delivered.
- iii Digital copies *must* be supplied on a CD or a DVD.
- iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

(e) **Maintenance Manual(s) - English**

- i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in English, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.

- iv The Contractor may supply this deliverable as a bilingual package.

(f) **Maintenance Manual(s) – French**

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- i The Contractor *must* supply the *Technical Authority* approved maintenance (shop repair) manual(s) in French, in paper as well as in searchable PDF digital format, required for the maintenance and repair of the vehicle, features and accessories.
- ii Digital copies *must* be supplied on a CD or a DVD.
- iii Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- iv The Contractor may supply this deliverable as a bilingual package.

(g) **Parts Manual(s)**

- i The Contractor *must* supply the *Technical Authority* approved parts manual(s) in paper and searchable digital format, for the vehicle, features and accessories.
- ii The parts manual(s) *must* be in English.
- iii Digital copies *must* be supplied on a CD or a DVD.
- iv Digital copies *must* be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- v It is desirable to provide the parts manual(s) in French in addition to the English version.

4.2 **Training**

(a) **Training – Familiarization - English**

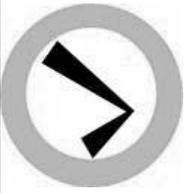
- i The Contractor *must* supply a familiarization course in English;
- ii The instructor *must* be an OEM Factory Certified Training Provider;
- iii The familiarization course *must* include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use and maintenance of all accessories supplied;
- iv The instructor *must* supply responses to questions;
- v The familiarization course *must* have a minimum duration of eight (8) hours;
- vi The familiarization course *must* accommodate up to eight (8) personnel;
- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified

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user or designated contact person for vehicles shipped for users other than DND;

- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

(b) **Training – Familiarization - French**

- i The Contractor *must* supply a familiarization course in French;
- ii The instructor *must* be an OEM Factory Certified Training Provider;
- iii The familiarization course *must* include operation and maintenance segments demonstrating, all safety measures required for safe vehicle use, instructions on the use of all accessories supplied and maintenance;
- iv The instructor *must* supply responses to questions;
- v The familiarization course *must* have a minimum duration of eight (8) hours;
- vi The familiarization course *must* accommodate up to eight (8) personnel;
- vii The familiarization course *must* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *must* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped for users other than DND;
- ix After completion of the familiarization course, the Contractor *must* have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.



NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

ANNEX B1
TECHNICAL INFORMATION QUESTIONNAIRE
HEAVY DUTY TRAILERS
GROUP 1 – SEMI-TRAILER, SLIDING AXLE

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

Where the specification paragraphs below indicate “**Substantial Information**”, the “**Substantial Information**” describing completely and in detail how the requirement is met or addressed **must** be supplied for each performance requirement/specification.

Bidder is required to indicate the document name/title and page number where the **Substantial Information** can be found.

Definition for **Equivalent** is found in the DEFINITION section at the end of this document.

BIDDER INFORMATION

Bidder Name: _____

Address: _____

Proposal Date: _____

Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES NO

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

OPI: DSVPM 4 – BPR: DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense



CONFIGURATION A

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a sliding axle semi-trailer with accessories. The semi-trailer will be used to transport heavy equipment, ISO containers and vehicles. Main configurations are as follows:</p> <p>Configuration A – Sliding Axle, 35 Ton payload, 53 ft, Tandem</p>	<p>Make</p> <p>Model</p>		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (31,752 kg) in the Data Table (Paragraph 1.4).</p>	Trailer Capacity	kg	
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer main deck must have a minimum length of that given as “MAIN DECK LENGTH” (13,000 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer main deck, un-laden, must have a nominal height of that given as “MAIN DECK HEIGHT” (965 mm) in the Data Table (Paragraph 1.4).</p> <p>(e) The semi-trailer must have a kingpin distance (KP) of that given as “KP DISTANCE” (533 mm) in the Data Table (Paragraph 1.4), measured from the front of the trailer to the centre of the kingpin.</p> <p>(f) The semi-trailer must operate with the kingpin at a height of that given as “KINGPIN OPERATING HEIGHT” (1,244 mm) in the Data Table (Paragraph 1.4);</p>	<p>Trailer Length</p> <p>Main Deck Length</p> <p>Trailer Width</p> <p>Main Deck Height</p> <p>Kingpin Distance</p> <p>Kingpin Operating Height</p>	<p>mm</p> <p>mm</p> <p>mm</p> <p>mm</p> <p>mm</p> <p>mm</p>	

CONFIGURATION A			
	measured from the ground to the kingpin upper plate.	Minimum Landing Wheel Clearance	mm
3.8	<p>(g) The semi-trailer must have a minimum landing wheel clearance from kingpin (LWC) of that given as “MIN LWC” (2,057 mm) in the Data Table (Paragraph 1.4).</p> <p>Auxiliary Engine System</p> <p>(a) The semi-trailer must be provided with one (1) auxiliary engine system to power the hydraulic system.</p> <p>(b) The engine must operate on gasoline fuel.</p>	<p>Auxiliary Engine Brochure or Technical Specifications</p> <p>Auxiliary Engine Brochure or Technical Specifications</p>	
3.9	<p>Hydraulic Winch</p> <p>(a) The semi-trailer must be provided with a two-speed, planetary, hydraulic winch to load vehicles onto the main deck.</p> <p>(c) The winch first layer capacity must be a minimum of 13,608 kg.</p> <p>(d) The winch cable must have a minimum length of 38.5 m.</p>	<p>Winch Brochure or Technical Specifications</p> <p>First Layer Capacity</p> <p>Cable Length</p>	<p>kg</p> <p>m</p>
4.1.1 (b)	<p>Photographs and Line Drawings (DND Only)</p> <p>(iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.</p>	Dimensioned Line Drawing	
4.1.1 (c)	<p>Load Analysis Drawing (DND Only)</p> <p>i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and</p> <p>ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.</p>	Load Analysis Drawing	

CONFIGURATION B

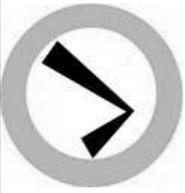
PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a sliding axle semi-trailer with accessories. The semi-trailer will be used to transport heavy equipment, ISO containers and vehicles. Main configurations are as follows:</p> <p>Configuration B – Sliding Axle, 40 Ton payload, 53 ft, Tridem</p>	<p>Make</p> <p>Model</p>		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (36,288 kg) in the Data Table (Paragraph 1.4).</p>	Trailer Capacity	kg	
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer main deck must have a minimum length of that given as “MAIN DECK LENGTH” (13,000 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer main deck, un-laden, must have a nominal height of that given as “MAIN DECK HEIGHT” (965 mm) in the Data Table (Paragraph 1.4).</p> <p>(e) The semi-trailer must have a kingpin distance (KP) of that given as “KP DISTANCE” (533 mm) in the Data Table (Paragraph 1.4), measured from the front of the trailer to the centre of the kingpin.</p> <p>(f) The semi-trailer must operate with the kingpin at a height of that given as “KINGPIN OPERATING HEIGHT” (1,244 mm) in the Data Table (Paragraph 1.4).</p>	<p>Trailer Length</p> <p>Main Deck Length</p> <p>Trailer Width</p> <p>Main Deck Height</p> <p>Kingpin Distance</p> <p>Kingpin Operating Height</p>	<p>mm</p> <p>mm</p> <p>mm</p> <p>mm</p> <p>mm</p> <p>mm</p>	

CONFIGURATION B			
	measured from the ground to the kingpin upper plate.	Minimum Landing Wheel Clearance	mm
	(g) The semi-trailer must have a minimum landing wheel clearance from kingpin (LWC) of that given as “ MIN LWC ” (2,057 mm) in the Data Table (Paragraph 1.4).		
3.8	Auxiliary Engine System (a) The semi-trailer must be provided with one (1) auxiliary engine system to power the hydraulic system. (b) The engine must operate on gasoline fuel.	Auxiliary Engine Brochure or Technical Specifications Auxiliary Engine Brochure or Technical Specifications	
3.9	Hydraulic Winch (a) The semi-trailer must be provided with a two-speed, planetary, hydraulic winch to load vehicles onto the main deck. (c) The winch first layer capacity must be a minimum of 13,608 kg. (d) The winch cable must have a minimum length of 38.5 m.	Winch Brochure or Technical Specifications First Layer Capacity Cable Length	kg m
4.1.1 (b)	Photographs and Line Drawings (DND Only) (iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.	Dimensioned Line Drawing	
4.1.1 (c)	Load Analysis Drawing (DND Only) i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.	Load Analysis Drawing	

DEFINITION

The following definition apply to the interpretation of this Technical Information Questionnaire:

- a) “**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.



NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

ANNEX B2
TECHNICAL INFORMATION QUESTIONNAIRE
HEAVY DUTY TRAILERS
GROUP 2 – SEMI-TRAILER, VAN

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

Where the specification paragraphs below indicate “**Substantial Information**”, the “**Substantial Information**” describing completely and in detail how the requirement is met or addressed **must** be supplied for each performance requirement/specification.

Bidder is required to indicate the document name/title and page number where the **Substantial Information** can be found.

Definition for **Equivalent** is found in the DEFINITION section at the end of this document.

BIDDER INFORMATION

Bidder Name: _____

Address: _____

Proposal Date: _____

Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES NO

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

OPI: DSVPM 4 – BPR: DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense



CONFIGURATION A

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a semi-trailer van with accessories. The configurations are as follows:</p> <p>Configuration A – Van, Dry, 30Ton, 53 ft, Tandem</p>	Make		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (27,216 kg) in the Data Table (Paragraph 1.4).</p>	Model	kg	
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer, un-laden and with the floor level, must have a nominal overall height of that given as “TRAILER HEIGHT” (4,100 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer must have a minimum interior body height of that given as “INTERIOR BODY HEIGHT” (2,667 mm) in the Data Table (Paragraph 1.4).</p> <p>(e) The semi-trailer must have a nominal kingpin distance (KP) of that given as “KINGPIN DISTANCE” (914 mm) in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer.</p> <p>(f) The semi-trailer must operate with the kingpin at a nominal height of that given as “KINGPIN HEIGHT” (1,219 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate;</p> <p>(g) The semi-trailer must have a minimum landing</p>	Trailer Capacity		
		Trailer Length	mm	
		Trailer Width	mm	
		Trailer Height	mm	
		Interior Body Height	mm	
		Kingpin Distance	mm	
		Kingpin Height	mm	
		Minimum Landing	mm	

CONFIGURATION A		
	wheel clearance from kingpin (LWC) of that given as "MIN LWC" (2,700 mm) in the Data Table (Paragraph 1.4).	Wheel Clearance
4.1.1 (b)	Photographs and Line Drawings (DND Only) (iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.	Dimensioned Line Drawing
4.1.1 (c)	Load Analysis Drawing (DND Only) i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.	Load Analysis Drawing

CONFIGURATION B

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a semi-trailer van with accessories. The configurations are as follows:</p> <p>Configuration B – Van, Dry, 35Ton, 53 ft, Tridem</p>	Make		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (31,752 kg) in the Data Table (Paragraph 1.4).</p>	Model		
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer, un-laden and with the floor level, must have a nominal overall height of that given as “TRAILER HEIGHT” (4,100 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer must have a minimum interior body height of that given as “INTERIOR BODY HEIGHT” (2,667 mm) in the Data Table (Paragraph 1.4).</p> <p>(e) The semi-trailer must have a nominal kingpin distance (KP) of that given as “KINGPIN DISTANCE” (914 mm) in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer.</p> <p>(f) The semi-trailer must operate with the kingpin at a nominal height of that given as “KINGPIN HEIGHT” (1,219 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate;</p> <p>(g) The semi-trailer must have a minimum landing</p>	Trailer Capacity	kg	
		Trailer Length	mm	
		Trailer Width	mm	
		Trailer Height	mm	
		Interior Body Height	mm	
		Kingpin Distance	mm	
		Kingpin Height	mm	
		Minimum Landing	mm	

CONFIGURATION B		
	wheel clearance from kingpin (LWC) of that given as "MIN LWC" (2,700 mm) in the Data Table (Paragraph 1.4).	Wheel Clearance
4.1.1 (b)	Photographs and Line Drawings (DND Only) (iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.	Dimensioned Line Drawing
4.1.1 (c)	Load Analysis Drawing (DND Only) i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.	Load Analysis Drawing

CONFIGURATION C

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a semi-trailer van with accessories. The configurations are as follows:</p> <p>Configuration C – Van, Reefer, 30Ton, 53 ft, Tandem</p>	Make		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (27,216 kg) in the Data Table (Paragraph 1.4).</p>	Model		
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer, un-laden and with the floor level, must have a nominal overall height of that given as “TRAILER HEIGHT” (4,100 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer must have a minimum interior body height of that given as “INTERIOR BODY HEIGHT” (2,500 mm) in the Data Table (Paragraph 1.4).</p> <p>(e) The semi-trailer must have a nominal kingpin distance (KP) of that given as “KINGPIN DISTANCE” (914 mm) in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer.</p> <p>(f) The semi-trailer must operate with the kingpin at a nominal height of that given as “KINGPIN HEIGHT” (1,219 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate;</p> <p>(g) The semi-trailer must have a minimum landing</p>	Trailer Capacity	kg	
		Trailer Length	mm	
		Trailer Width	mm	
		Trailer Height	mm	
		Interior Body Height	mm	
		Kingpin Distance	mm	
		Kingpin Height	mm	
		Minimum Landing	mm	

CONFIGURATION C		
	Wheel Clearance	
3.5.8.1	<p>wheel clearance from kingpin (LWC) of that given as “MIN LWC” (2,700 mm) in the Data Table (Paragraph 1.4).</p> <p>Refrigerating Unit (a) The semi-trailer must be provided with a self-contained refrigerating unit that operates on diesel fuel.</p>	<p>Refrigerating unit Brochure or technical specification</p>
4.1.1 (b)	<p>Photographs and Line Drawings (DND Only) (iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.</p>	<p>Dimensioned Line Drawing</p>
4.1.1 (c)	<p>Load Analysis Drawing (DND Only) i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.</p>	<p>Load Analysis Drawing</p>

CONFIGURATION D

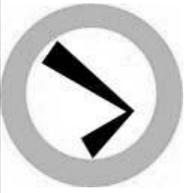
PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a semi-trailer van with accessories. The configurations are as follows:</p> <p>Configuration D – Van, Reefer, 35Ton, 53 ft, Tridem</p>	Make		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (31,752 kg) in the Data Table (Paragraph 1.4).</p>	Model		
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer, un-laden and with the floor level, must have a nominal overall height of that given as “TRAILER HEIGHT” (4,100 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer must have a minimum interior body height of that given as “INTERIOR BODY HEIGHT” (2,500 mm) in the Data Table (Paragraph 1.4).</p> <p>(e) The semi-trailer must have a nominal kingpin distance (KP) of that given as “KINGPIN DISTANCE” (914 mm) in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer.</p> <p>(f) The semi-trailer must operate with the kingpin at a nominal height of that given as “KINGPIN HEIGHT” (1,219 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate;</p> <p>(g) The semi-trailer must have a minimum landing</p>	Trailer Capacity	kg	
		Trailer Length	mm	
		Trailer Width	mm	
		Trailer Height	mm	
		Interior Body Height	mm	
		Kingpin Distance	mm	
		Kingpin Height	mm	
		Minimum Landing	mm	

CONFIGURATION D		
		Wheel Clearance
3.5.8.1	<p>wheel clearance from kingpin (LWC) of that given as “MIN LWC” (2,700 mm) in the Data Table (Paragraph 1.4).</p> <p>Refrigerating Unit (b) The semi-trailer must be provided with a self-contained refrigerating unit that operates on diesel fuel.</p>	Refrigerating unit Brochure or technical specification
4.1.1 (b)	<p>Photographs and Line Drawings (DND Only) (iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.</p>	Dimensioned Line Drawing
4.1.1 (c)	<p>Load Analysis Drawing (DND Only)</p> <ul style="list-style-type: none"> i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and ii The load analysis drawing must be in PDF format supplied on a CD or a DVD. 	Load Analysis Drawing

DEFINITION

The following definition apply to the interpretation of this Technical Information Questionnaire:

- a) “**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.



NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

ANNEX B3
TECHNICAL INFORMATION QUESTIONNAIRE
HEAVY DUTY TRAILERS
GROUP 3 – SEMI-TRAILER, FLAT/STEP DECK

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

Where the specification paragraphs below indicate “**Substantial Information**”, the “**Substantial Information**” describing completely and in detail how the requirement is met or addressed **must** be supplied for each performance requirement/specification.

Bidder is required to indicate the document name/title and page number where the **Substantial Information** can be found.

Definition for **Equivalent** is found in the DEFINITION section at the end of this document.

BIDDER INFORMATION

Bidder Name: _____

Address: _____

Proposal Date: _____

Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES NO

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

OPI: DSVPM 4 – BPR: DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense



CONFIGURATION A

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a flat deck semi-trailer with accessories. Main configurations are as follows:</p> <p>Configuration A – Flat Deck, 30 Ton payload, 53 ft, Tandem</p>	Make		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (27,216 kg) in the Data Table (Paragraph 1.4).</p>	Model		
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer main deck must have a nominal length of that given as “MAIN DECK LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer main deck, un-laden, must have a nominal height of that given as “MAIN DECK HEIGHT” (1,525 mm) in the Data Table (Paragraph 1.4)</p> <p>(f) The semi-trailer must have a nominal kingpin distance (KP) of that given as “KINGPIN DISTANCE” (609 mm) in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer.</p> <p>(g) The semi-trailer must operate with the kingpin at a nominal height of that given as “KINGPIN HEIGHT” (1,245 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate;</p> <p>(h) The semi-trailer must have a minimum landing</p>	Trailer Capacity	kg	
		Trailer Length	mm	
		Trailer Width	mm	
		Main Deck Length	mm	
		Main Deck Height	mm	
		Kingpin Distance	mm	
		Kingpin Height	mm	
		Minimum Landing	mm	

CONFIGURATION A		
	wheel clearance from kingpin (LWC) of that given as "MIN LWC" (2,700 mm) in the Data Table (Paragraph 1.4).	Wheel Clearance
4.1.1 (b)	<p>Photographs and Line Drawings (DND Only)</p> <p>(iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.</p>	Dimensioned Line Drawing
4.1.1 (c)	<p>Load Analysis Drawing (DND Only)</p> <p>i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and</p> <p>ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.</p>	Load Analysis Drawing

CONFIGURATION B

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a flat deck semi-trailer with accessories. Main configurations are as follows:</p> <p>Configuration B – Flat Deck, 35 Ton payload, 53 ft, Tridem</p>	Make		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (31,752 kg) in the Data Table (Paragraph 1.4).</p>	Model		
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer main deck must have a nominal length of that given as “MAIN DECK LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer main deck, un-laden, must have a nominal height of that given as “MAIN DECK HEIGHT” (1,525 mm) in the Data Table (Paragraph 1.4)</p> <p>(f) The semi-trailer must have a nominal kingpin distance (KP) of that given as “KINGPIN DISTANCE” (609 mm) in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer.</p> <p>(g) The semi-trailer must operate with the kingpin at a nominal height of that given as “KINGPIN HEIGHT” (1,245 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate;</p> <p>(h) The semi-trailer must have a minimum landing</p>	Trailer Capacity	kg	
		Trailer Length	mm	
		Trailer Width	mm	
		Main Deck Length	mm	
		Main Deck Height	mm	
		Kingpin Distance	mm	
		Kingpin Height	mm	
		Minimum Landing	mm	

CONFIGURATION B		
	wheel clearance from kingpin (LWC) of that given as "MIN LWC" (2,700 mm) in the Data Table (Paragraph 1.4).	Wheel Clearance
4.1.1 (b)	<p>Photographs and Line Drawings (DND Only)</p> <p>(iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.</p>	Dimensioned Line Drawing
4.1.1 (c)	<p>Load Analysis Drawing (DND Only)</p> <p>i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and</p> <p>ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.</p>	Load Analysis Drawing

CONFIGURATION C

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a flat deck semi-trailer with accessories. Main configurations are as follows:</p> <p>Configuration C – Step Deck, 30 Ton payload, 53 ft, Tandem</p>	Make		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (27,216 kg) in the Data Table (Paragraph 1.4).</p>	Model		
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer main deck must have a nominal length of that given as “MAIN DECK LENGTH” (13,000 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer main deck, un-laden, must have a nominal height of that given as “MAIN DECK HEIGHT” (1,120 mm) in the Data Table (Paragraph 1.4)</p> <p>(e) The semi-trailer upper deck must have a nominal height of that given as “UPPER DECK HEIGHT” (1,525 mm) in the Data Table (Paragraph 1.4)</p> <p>(f) The semi-trailer must have a nominal kingpin distance (KP) of that given as “KINGPIN DISTANCE” (609 mm) in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer.</p> <p>(g) The semi-trailer must operate with the kingpin at a nominal height of that given as “KINGPIN HEIGHT”</p>	Trailer Capacity	kg	
		Trailer Length	mm	
		Trailer Width	mm	
		Main Deck Length	mm	
		Main Deck Height	mm	
		Upper Deck Height	mm	
		Kingpin Distance	mm	
		Kingpin Height	mm	

CONFIGURATION C

	<p>(1,245 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate;</p> <p>(h) The semi-trailer must have a minimum landing wheel clearance from kingpin (LWC) of that given as "MIN LWC" (2,700 mm) in the Data Table (Paragraph 1.4).</p> <p>Photographs and Line Drawings (DND Only)</p> <p>(iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.</p>			
4.1.1 (b)		Minimum Landing Wheel Clearance	mm	
4.1.1 (c)	<p>Load Analysis Drawing (DND Only)</p> <p>i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and</p> <p>ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.</p>	Dimensioned Line Drawing		Load Analysis Drawing

CONFIGURATION D

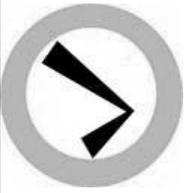
PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a flat deck semi-trailer with accessories. Main configurations are as follows:</p> <p>Configuration D – Step Deck, 35 Ton payload, 53 ft, Tridem</p>	Make		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (31,752 kg) in the Data Table (Paragraph 1.4).</p>	Model		
3.4.3	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer main deck must have a nominal length of that given as “MAIN DECK LENGTH” (13,000 mm) in the Data Table (Paragraph 1.4).</p> <p>(d) The semi-trailer main deck, un-laden, must have a nominal height of that given as “MAIN DECK HEIGHT” (1,120 mm) in the Data Table (Paragraph 1.4)</p> <p>(e) The semi-trailer upper deck must have a nominal height of that given as “UPPER DECK HEIGHT” (1,525 mm) in the Data Table (Paragraph 1.4)</p> <p>(f) The semi-trailer must have a nominal kingpin distance (KP) of that given as “KINGPIN DISTANCE” (609 mm) in the Data Table (Paragraph 1.4), measured from the front of the semi-trailer.</p> <p>(g) The semi-trailer must operate with the kingpin at a nominal height of that given as “KINGPIN HEIGHT”</p>	Trailer Capacity	kg	
		Trailer Length	mm	
		Trailer Width	mm	
		Main Deck Length	mm	
		Main Deck Height	mm	
		Upper Deck Height	mm	
		Kingpin Distance	mm	
		Kingpin Height	mm	

CONFIGURATION D			
	<p>(1,245 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate;</p> <p>(h) The semi-trailer must have a minimum landing wheel clearance from kingpin (LWC) of that given as "MIN LWC" (2,700 mm) in the Data Table (Paragraph 1.4).</p> <p>Photographs and Line Drawings (DND Only)</p> <p>(iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.</p>	Minimum Landing Wheel Clearance	mm
4.1.1 (b)	<p>Load Analysis Drawing (DND Only)</p> <p>i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and</p> <p>ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.</p>	Dimensioned Line Drawing	
4.1.1 (c)		Load Analysis Drawing	

DEFINITION

The following definition apply to the interpretation of this Technical Information Questionnaire:

- a) “***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.



NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

ANNEX B4
TECHNICAL INFORMATION QUESTIONNAIRE
HEAVY DUTY TRAILERS
GROUP 4 – DOUBLE DROP TRAILER SYSTEM, 45 TONNES, WITH JEEP

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

Where the specification paragraphs below indicate “**Substantial Information**”, the “**Substantial Information**” describing completely and in detail how the requirement is met or addressed **must** be supplied for each performance requirement/specification.

Bidder is required to indicate the document name/title and page number where the **Substantial Information** can be found.

Definition for **Equivalent** is found in the DEFINITION section at the end of this document.

BIDDER INFORMATION

Bidder Name: _____

Address: _____

Proposal Date: _____

Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES NO

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

OPI: DSVPM 4 – BPR: DAPVS 4

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Publiée avec l'autorisation du chef d'état-major de la Défense



CONFIGURATION A

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	Scope - This Purchase Description defines the requirements for a variable height, double drop trailer system with a jeep and accessories. The trailer system will be used to transport heavy equipment and vehicles.	Make		
3.4.2	Load Performance (a) The trailer system must carry a uniformly distributed load of at least that given as “ TRAILER SYSTEM CAPACITY ” (45,000 kg) in the Data Table (Paragraph 1.4).	Model Trailer System Capacity	kg	
3.5.1	Dimensions (a) The semi-trailer must have a nominal overall length of that given as “ SEMI-TRAILER LENGTH ” (16,150 mm) in the Data Table (Paragraph 1.4). (c) The semi-trailer must have a nominal overall width of that given as “ SEMI-TRAILER WIDTH ” (2,590 mm) in the Data Table (Paragraph 1.4). (c) Each kingpin installed on the semi-trailer must have an operating height range of that given as “ SEMI-TRAILER KINGPIN OPERATING HEIGHT RANGE ” (1,219 – 1,400 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate. (e) The jeep must have a nominal overall width of that given as “ JEOP WIDTH ” (2,590 mm) in the Data Table (Paragraph 1.4) (f) The jeep must operate with the kingpin at a nominal height of that given as “ JEOP KINGPIN HEIGHT ” (1,245 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate	Semi-Trailer length Semi-Trailer Width Semi-Trailer Kingpin Operating Height Range Jeep Width Jeep Kingpin Height	mm mm mm mm mm	
3.8	Auxiliary Engine System (a) The semi-trailer must be provided with one (1) auxiliary engine system to power the hydraulic system.	Auxiliary Engine Brochure or		

CONFIGURATION A			
		Technical Specifications	
		Auxiliary Engine Brochure or Technical Specifications	
3.12.2	<p>(b) The engine must operate on gasoline fuel.</p> <p>Hydraulic Winch</p> <p>(a) The semi-trailer must be provided with a hydraulic winch to load vehicles onto the main deck.</p> <p>(c) The winch first layer capacity must be a minimum of 13,608 kg.</p> <p>(d) The winch cable must have a minimum length of 35 m.</p>	Winch Brochure or Technical Specifications	
4.1.1 (b)	<p>Photographs and Line Drawings (DND Only)</p> <p>(iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.</p>	First Layer Capacity	kg
4.1.1 (c)	<p>Load Analysis Drawing (DND Only)</p> <p>i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and</p> <p>ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.</p>	Cable Length	m
		Dimensioned Line Drawing	
		Load Analysis Drawing	

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NOTICE

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ANNEX B5
TECHNICAL INFORMATION QUESTIONNAIRE
HEAVY DUTY TRAILERS
GROUP 5 – SEMI-TRAILER, DOUBLE DROP

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

Where the specification paragraphs below indicate “**Substantial Information**”, the “**Substantial Information**” describing completely and in detail how the requirement is met or addressed **must** be supplied for each performance requirement/specification.

Bidder is required to indicate the document name/title and page number where the **Substantial Information** can be found.

Definition for **Equivalent** is found in the DEFINITION section at the end of this document.

BIDDER INFORMATION

Bidder Name: _____

Address: _____

Proposal Date: _____

Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES NO

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

OPI: DSVPM 4 – BPR: DAPVS 4

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Publiée avec l'autorisation du chef d'état-major de la Défense



CONFIGURATION A

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a low bed semi-trailer with accessories. The semi-trailer will be used to transport heavy equipment, ISO containers and vehicles. Main configurations are as follows:</p> <p>Configuration A – Double Drop, Variable Height, 35 Ton, payload, 53 ft</p>	<p>Make</p> <p>Model</p>		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (31,752 kg) in the Data Table (Paragraph 1.4).</p>	Trailer Capacity	kg	
3.4.4	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer must operate with the kingpin at a height range of that given as “KINGPIN OPERATING HEIGHT RANGE” (1,219 – 1,400 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate.</p> <p>(g) The semi-trailer must have a minimum landing wheel clearance from kingpin (LWC) of that given as “MIN LWC” (2,700 mm) in the Data Table (Paragraph 1.4).</p>	<p>Trailer Length</p> <p>Trailer Width</p> <p>Kingpin Operating Height Range</p> <p>Minimum Landing Wheel Clearance</p>	<p>mm</p> <p>mm</p> <p>mm</p> <p>mm</p>	
3.8	<p>Auxiliary Engine System</p> <p>(a) The semi-trailer must be provided with one (1) auxiliary engine system to power the hydraulic system.</p>	Auxiliary Engine Brochure or Technical Specifications		

CONFIGURATION A		Auxiliary Engine Brochure or Technical Specifications	
	(b) The engine must operate on gasoline fuel.		
3.12.2	Hydraulic Winch		
	(a) The semi-trailer must be provided with a hydraulic winch to load vehicles onto the main deck.	Winch Brochure or Technical Specifications	
	(c) The winch first layer capacity must be a minimum of 13,608 kg.	First Layer Capacity	kg
	(d) The winch cable must have a minimum length of 35 m.	Cable Length	m
4.1.1 (b)	Photographs and Line Drawings (DND Only) (iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.	Dimensioned Line Drawing	
4.1.1 (c)	Load Analysis Drawing (DND Only) i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.	Load Analysis Drawing	

CONFIGURATION B

PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
1.1	<p>Scope - This Purchase Description defines the requirements for a low bed semi-trailer with accessories. The semi-trailer will be used to transport heavy equipment, ISO containers and vehicles. Main configurations are as follows:</p> <p>Configuration B – Double Drop, Ultra Low Deck, 30 Ton payload, 53 ft</p>	<p>Make</p> <p>Model</p>		
3.4.2	<p>Load Performance</p> <p>(a) The semi-trailer must carry a uniformly distributed load of at least that given as “TRAILER CAPACITY” (27,216 kg) in the Data Table (Paragraph 1.4).</p>	Trailer Capacity	kg	
3.4.4	<p>Dimensions</p> <p>(a) The semi-trailer must have a nominal overall length of that given as “TRAILER LENGTH” (16,150 mm) in the Data Table (Paragraph 1.4).</p> <p>(b) The semi-trailer must have a nominal overall width of that given as “TRAILER WIDTH” (2,590 mm) in the Data Table (Paragraph 1.4).</p> <p>(c) The semi-trailer must operate with the kingpin at a height range of that given as “KINGPIN OPERATING HEIGHT RANGE” (1,219 – 1,400 mm) in the Data Table (Paragraph 1.4), measured from the ground to the kingpin upper plate.</p> <p>(g) The semi-trailer must have a minimum landing wheel clearance from kingpin (LWC) of that given as “MIN LWC” (2,060 mm) in the Data Table (Paragraph 1.4).</p>			
3.8	<p>Auxiliary Engine System</p> <p>(a) The semi-trailer must be provided with one (1) auxiliary engine system to power the hydraulic system.</p>	Auxiliary Engine Brochure or Technical Specifications		

CONFIGURATION B		Auxiliary Engine Brochure or Technical Specifications	
	(b) The engine must operate on gasoline fuel.		
3.12.2	Hydraulic Winch		
	(a) The semi-trailer must be provided with a hydraulic winch to load vehicles onto the main deck.	Winch Brochure or Technical Specifications	
	(c) The winch first layer capacity must be a minimum of 13,608 kg.	First Layer Capacity	kg
	(d) The winch cable must have a minimum length of 35 m.	Cable Length	m
4.1.1 (b)	Photographs and Line Drawings (DND Only) (iii) One front-view and one side-view line drawing showing dimensions of the vehicle must be supplied. Brochure line drawings are acceptable.	Dimensioned Line Drawing	
4.1.1 (c)	Load Analysis Drawing (DND Only) i The Contractor must provide a load analysis drawing showing principle vehicle dimensions for the analysis and the axle and kingpin loads when subjected to the payload; and ii The load analysis drawing must be in PDF format supplied on a CD or a DVD.	Load Analysis Drawing	

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Solicitation No. - N° de l'invitation
E60HP-19TRHV/A
Client Ref. No. - N° de réf. du client
E60HP-19TRHV

Amd. No. - N° de la modif.
File No. - N° du dossier

Buyer ID - Id de l'acheteur
hp923
CCC No./N° CCC - FMS No./N° VME

ANNEX “C” – BID SOLICITATION TEMPLATE

Note: The latest versions of the template and terms and conditions will be used at time of bid solicitation. A copy is available by contacting the Supply Arrangement Authority detailed under Part 6A section 6.5 Authorities.

