

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

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**

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

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet TRUCK TRACTOR AND SEMI-TRAILER	
Solicitation No. - N° de l'invitation W6399-12DA40/A	Date 2012-06-29
Client Reference No. - N° de référence du client W6399-12DA40	
GETS Reference No. - N° de référence de SEAG PW-\$\$HP-512-60774	
File No. - N° de dossier hp512.W6399-12DA40	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-08-13	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Serra, Donna	Buyer Id - Id de l'acheteur hp512
Telephone No. - N° de téléphone (819) 956-3944 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Vehicles & Industrial Products Division
11 Laurier St./11, rue Laurier
7A2, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

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

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with this requirement.

2. Requirement

Canada is seeking proposals to procure:

2.1 Class 8 Heavy Truck Tractor and Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long and related items as described in Annex "A" - Pricing and in accordance with Annex "B" - Purchase Description Class 8 Heavy Truck Tractor and Annex "C" - Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long

2.2 Irrevocable options identified in Annex "A" - Pricing.

2.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

2.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex "A" - Pricing.

2.2.3 The options may be exercised within twelve (12) months after contract award.

3. Debriefings

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

4. Interpretation

The mandatory requirements stated in this Request for Proposal use the words "shall" or "must" or "mandatory". Proposals not meeting all of the mandatory requirements will be given no further consideration.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) Manual issued by Public Works and Government Services Canada.

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

The 2003 (**2012-03-02**) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection **5.4 of 2003**, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: ninety (90) days

2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

3. Enquiries - Bid Solicitation

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

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

4. Applicable Laws

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

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

5. Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications, Statement of Work or Purchase Description contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least **seven (7) days** before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (2 hard copies);

Section II: Financial Bid (1 hard copy);

Section III: Certifications and Additional Information (2 hard copies).

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

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

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

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or 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.

2. Section I: Technical Bid

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

Bidders must complete and submit by the bid closing date and time the following;

- 1) Appendix “1” - Technical Information Questionnaire - Class 8 Heavy Truck Tractor;
- 2) Appendix “1” - Technical Information Questionnaire -Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long

2.1 Substitutes and Alternatives

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

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

- (a) Clearly identifies a substitute and/or an alternative;
- (b) Designates the brand name, model and/or part number of the substitute and/or of the product, where applicable;
- (c) States that the substitute product is fully interchangeable with the item specified in the technical requirement description;
- (d) Provides complete specifications and brochures, where applicable;
- (e) Provides compliance statements that include technical details showing the substitute and/or the alternative meet all technical requirements specified in the technical requirement description; and
- (f) Clearly identifies those areas in the technical requirement description and in the brochures that support the substitute and/or the alternative compliance with the technical requirements.

2.1.2 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.

2.1.3 In conducting the evaluation of bids, Canada may, but will have no obligation to request the bidder offering a substitute and/or an alternative, to provide a copy of the alternative standard and to demonstrate, at the bidder's sole cost, that it is equivalent to the technical requirement.

3. Section II: Financial Bid

Bidders must submit their prices in Annex “A”- Pricing in accordance with the Basis of Payment described in **Part 6 - RESULTING CONTRACT CLAUSES**, at **Clause 6.1 Basis of Payment**.

3.1 Exchange Rate Fluctuation

- 3.1.1 Unless otherwise specified in the bid solicitation, bids must be in Canadian currency.
- 3.1.2 Bidders may request Canada to assume the risk for exchange rate fluctuation. This request must be specifically made at time of bidding.
- 3.1.3 The foreign currency component is defined as the element of the price that will be directly affected by exchange rate fluctuations. It could include the net price FOB foreign manufacturer's plant, costs associated with applicable duty, excise tax, Goods and Services Tax or Harmonized Sales Tax, if applicable, entry fees, transportation costs or delivery charges payable in a foreign currency, and any other charges associated with being the importer of record if they originated from and are required to be paid in a foreign currency.
- 3.1.4 The foreign value of the foreign currency component of the bid or negotiated price must be provided before contract award. Form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it is recommended to indicate on the above form the foreign currency component associated with each milestone event.
- 3.1.5 All bids are evaluated in Canadian currency. Therefore, for evaluation purposes, the noon rate quoted by the Bank of Canada as being in effect on date of bid closing, or such other date as may be specified in the bid solicitation, will be applied as the initial conversion factor for the specified currency. (Column 3 of the above form will be completed by the Contracting Authority.)
- 3.1.6 Rates proposed by bidders will not be accepted for the purposes of this exchange rate adjustment provision.
- 3.1.7 If there are two (2) identical bids, and provided that the bid selected would still be considered the most advantageous to Canada, preference will be given to the Bidder who assumes all or part of the exchange rate adjustment risk over a bidder who does not assume any of this risk. Furthermore, preference will be

given to the Bidder who assumes all of the exchange rate adjustment risk over a bidder who assumes only part of this risk.

3.1.8 Canada will pay the exchange rate adjustment amount in Canadian currency using the prevailing noon rate on the date of payment by Canada or, as applicable, in accordance with clause C3015C, C3020C, C3025C, or C3030C.

4. Section III: Certifications and Additional Information

Bidders must submit the certifications required under **PART 5 - CERTIFICATIONS**.

4.1 Additional Information

Canada requests that bidders submit the following information:

4.1.1 Delivery

4.1.1.1 Firm Quantity

While delivery of the one (1) Class 8 Heavy Truck Tractor and one (1) Semi-Trailer, Retractable Wall, 35 Ton (70,000 lbs), Dual Wheel, Tridem-Axle, 53 Feet Long are requested by **14 January 2013**, the best delivery that can be offered is as follows:

Item 001 – Class 8 Heavy Truck Tractor and Semi-Trailer, Retractable Wall, 35 Ton (70,000 lbs), Dual Wheel, Tridem-Axle, 53 Feet Long and related items will be delivered within _____ calendar days from the effective date of the contract.

4.1.1.2 Optional Quantity

If an option is exercised, the best delivery that can be offered is as follows:

Item 002 – Quantity two (2) Class 8 Heavy Truck Tractor related items will be delivered within _____ calendar days after an option is exercised.

Item 003 – Quantity one (1) Semi-Trailer, Retractable Wall, 35 Ton (70,000 lbs) Dual Wheel, Tridem-Axle, 53 Feet Long related items will be delivered within _____ calendar days after an option is exercised..

4.1.2 Manufacturer's Standard Warranty Period

Canada requests that the Bidder provide details of the manufacturer's standard warranty period for the vehicle/equipment and its component that exceeds the minimum warranty period of twelve (12) months.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

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

1.2 An evaluation team composed of representatives of Canada will evaluate the bids.

2. Technical Evaluation

2.1 The purpose of the technical evaluation is to determine if the goods and/or services offered meet all mandatory technical requirements outlined in the documents enumerated hereafter and as required in **Section I - Technical Bid of Part 3 -BID PREPARATION INSTRUCTIONS:**

- Appendix 1 to Annex "B"- Technical Information Questionnaire - Class 8 Heavy Truck Tractor ; and
- Annex "B" - Purchase Description - Class 8 Heavy Truck Tractor
- Appendix 1 to Annex "C"- Technical Information Questionnaire - Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long
- Annex "C" - Purchase Description - Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long

3. Financial Evaluation

3.1 The purpose of the financial evaluation is to determine the aggregate price, based on the information submitted in Annex "A" - Pricing.

3.2 Aggregate Price Calculation

Bids will be evaluated on an aggregate price basis for the firm quantity and the optional quantity.

3.2.1 To determine the averaged price for the optional quantities, calculation will be as follows:

a) The firm unit prices for the optional quantity for each period of twelve (12) months will be added; and

b) The sum will be divided by two (2).

3.2.2 To determine the aggregate price for the firm quantity and optional quantity, calculation will be as follows:

a) The averaged price for the optional quantity obtained in 3.2.1 b) above will be multiplied by the total estimated optional quantity identified; and

b) The result will be added to the total price for the firm quantity.

3.3 Any **Extended Warranty Period** offered will not be included in the financial evaluation and further negotiations may be required.

4. Basis of Selection

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

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Certifications Precedent to Contract Award

The certifications listed below should be submitted with the bid, but may be completed and submitted afterwards. If any of these required certifications is not completed or submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

1.1 Federal Contractors Program - \$200,000 or more

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

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2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.
3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) () is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) () is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;
- (d) () is subject to the FCP, and has a valid certificate number as follows:
_____ (e.g. has not been declared an ineligible contractor by HRSDC.)

Further information on the FCP is available on the HRSDC Web site.

[Http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml](http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml)

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with this requirement.

2. Requirement

2.1 The Contractor must deliver one (1) Class 8 Truck and one (1) Semi-Trailer and related items as described in Annex "A" - Pricing and in accordance with Annex "B" - Purchase Description "Class 8 Heavy Truck Tractor" and Annex "C" - Purchase Description "Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long".

2.2 The Contractor grants to Canada irrevocable options identified in Annex "A" - Pricing.

2.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

2.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex "A" - Pricing.

2.2.3 The options may be exercised within Twelve (12) months after contract award.

2.3 Optional Extended Warranty Period (if applicable)

The Contractor grants to Canada the irrevocable option to extend the warranty period for an additional (to be inserted by PWGSC at time of contract award) months, under the same terms and conditions and at the price stated in the Contract at Annex "A" - pricing. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option within ninety (90) calendar days after contract award and/or the exercising of an option by sending a written notice to the Contractor.

3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>) issued by Public Works and Government Services Canada.

3.1 General Conditions

2010A (2012-03-02) General Conditions - Goods (Medium Complexity), apply to and form part of the contract.

3.1.1 **Section 09** entitled **Warranty** of general conditions **2010A** is amended by deleting subsection 2 in its entirety and replacing it with the following:

The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

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

All other provisions of the warranty section remain in effect.

4. Term of Contract

4.1 Delivery of Vehicle

4.1.1 Firm Quantity

Delivery date of the vehicle must be made as follows:

Item 001 - Quantity one (1) Class 8 Truck Tractor and Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long and related items must be delivered on or before _____ (Date to be inserted by PWGSC the Contracting Authority at time of contract award.)

4.1.2 Option Quantity

Item 002 - Quantity two (2) Class 8 Truck Tractor and related items to be delivered within _____ calendar days after an option is exercised. (Days to be inserted by PWGSC the Contracting Authority at time of contract award.)

Item 003 - Quantity one (1) Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long and related items to be delivered within _____ calendar days after an option is exercised. (Days to be inserted by PWGSC the Contracting Authority at time of contract award.)

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Donna Serra
 Title: Supply Team Leader
 Organization: Public Works and Government Services Canada - Acquisitions Branch
 LEFT Directorate, HP Division,
 7A2, Place du Portage, Phase 3, 11 Laurier Street, Gatineau Quebec,
 K1A 0S5
 Telephone: 819 956-3944
 Facsimile: 819 953-2953
 E-mail: donna.serra@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2 Procurement Authority

The Procurement Authority for the Contract is:

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

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

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

5.3 Technical Authority: (If applicable)

The Technical Authority for the Contract is:

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

Title: _____

Organization: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

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.

5.4 Contractor's Representative

Name and telephone number of the person responsible for :

General enquiries

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

Title: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

Delivery follow-up

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

Title: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

5.5 After Sales Service

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

Item 001

Name: _____

Address: _____

Telephone Number: _____

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

6. Payment**6.1 Basis of Payment - Firm Unit Price(s)**

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

Basis of Payment (BOP) Type 1: Firm unit prices in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, Goods and Services tax/Harmonized Sales Tax extra.

Basis of Payment (BOP) Type 2: Firm unit prices in Canadian dollars, FCA Free Carrier, Incoterms 2000 at Contractor's

Canadian facility or Contractor's Canadian distribution point, including Canadian Custom Duties and Excise Taxes included where applicable, Goods and Services Tax/Harmonized Sales Tax extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.2 SACC Manual Clauses

H1001C Multiple Payments

2008-05-12

6.3 Exchange Rate/Payment on Delivery

6.3.1 The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments.

6.3.2 The price must be adjusted to reflect the exchange rate in effect and applied by Canada Border Services Agency (CBSA) on the date of importation, but only in respect of the foreign currency component detailed in the above form.

6.3.3 No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.

6.3.4 On each invoice or claim for payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In addition, the invoice must be accompanied by a copy of CBSA Form B3-3, Canada Customs Coding Form, for the imported goods, services or both.

6.3.5 Canada will have the right to audit any revision to costs and prices under this clause.

7. Invoicing Instructions

- 7.1 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions including the Client Ref # W6399-12DA40. Invoices cannot be submitted until all work identified in the invoice is completed.
- 7.2 Invoices must be distributed as follows:

- (a) The original and one (1) copy must be forwarded to the following address for certification and payment:

National Defence Headquarters
Mgen George R. Pearkes Bldg
101 Colonel By Drive
Ottawa, Canada
K1A 0K2

Attention: _____

- (b) One (1) copy must be forwarded to the PWGSC Contracting Authority identified under the section entitled "Authorities" of the Contract.
- (c) One (1) copy must be forwarded to the consignee.

8. Certifications

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

9. Applicable Laws

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

10. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;

- (b) 2010A (2012-03-02) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Pricing;
- (d) Annex "B" - Purchase Description - Class 8 Heavy Truck Tractor
- (e) Annex "C" - Purchase Description - Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long
- (f) Appendix 1 to Annex "B"- Technical Information Questionnaire - Class 8 Heavy Truck Tractor
- (g) Appendix 1 to Annex "C"- Technical Information Questionnaire Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long
- (h) the Contractor's bid dated _____

11. SACC Manual Clauses

A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2008-05-12
A9049C	Vehicle Safety	2011-05-16
C2800C	Priority Rating	2011-05-16
C2801C	Priority Rating - Canadian-based Contractors	2011-05-16
D3010C	Dangerous Goods/Hazardous Products	2007-11-30
D5545C	ISO 9001:2000 - Quality Management Systems - Requirements (QAC C)	2010-08-16
D9002C	Incomplete Assemblies	2007-11-30
G1005C	Insurance	2008-05-12

12. Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

13. Preparation for Delivery

The vehicle / equipment must be serviced, adjusted and delivered in condition for immediate use. The interior and exterior must be cleaned before leaving the factory and being released to DND personnel at the final delivery location.

The fuel tanks must be at least half full prior to release of the vehicle(s) to DND personnel. All vehicles delivered to the consignee are to be delivered between the hours of 8:00 am and 4:00 pm Monday through Friday, except Federal holidays. Any attempt by the carrier to deliver

vehicles before or after these hours may be refused unless arrangements have been made for authorized, qualified personnel to be available to perform inspections and to accept the delivery. When the carrier is required to return due to its failure to make an appointment for delivery, Canada will not be liable to pay for additional costs.

14. Shipping Instructions - Delivery at Destination (For Firm quantities)

- 14.1 The Contractor must ship the goods prepaid DDP - Delivered Duty Paid (as detailed at Annex "A"- Pricing). Unless otherwise directed, delivery must be made by the most economical means. Shipping charges must be shown as a separate item on the Contractor's invoice. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and taxes.
- 14.2 The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the contacts specified in Annex "A"- Pricing. The consignee may refuse shipments when prior arrangements have not been made.

15. Shipping Instructions (DND) - Canadian-based Contractor (Optional Quantities)

- 15.1 Delivery will be FCA Free Carrier at the Contractor's Canadian facility or Contractor's Canadian distribution point, Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.
- 15.2 Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 15.3.
- Inbound Logistics Co-ordination Center (ILCC)
 Telephone: 1-877-877-7423 (toll free)
 Facsimile: 1-877-877-7409 (toll free)
 E-mail: ILHQOttawa@forces.gc.ca
- 15.3 The Contractor must provide the following information to the DND Inbound Logistics Coordination Center when arranging for shipment:
- (a) the Contract number;
 - (b) consignee address (for multiple addresses, items must be packaged and labeled separately with each consignee address);
 - (c) description of each item;

- (d) the number of pieces and type of packaging (i.e., carton, crate, drum, skid);
- (e) actual weight and dimensions of each piece type, including gross weight;
- (f) full details of dangerous material, as required for the applicable mode of transportation, signed certificates for dangerous material as required for shipment by the International Maritime Dangerous Goods Code, the International Air Transport Association regulations or the applicable Canadian Dangerous Goods Shipping Regulations, and a copy of the materiel safety data sheet.

15.4 Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labeling, and the marking of each piece with a Transportation Control Number.

15.5 The Contractor must not ship the goods before receiving shipping instructions from the DND Inbound Logistics contact.

15.6 If the Contractor delivers the goods at a place and time which are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.

15.7 If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either thirty (30) days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or thirty (30) days following the delivery date specified in the Contract, whichever is later.

16. Shipping Instructions (DND) - Foreign-based Contractors (optional quantities)

16.1 Delivery will be FCA Free Carrier at the Contractor's Canadian facility or Contractor's Canadian distribution point, Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.

16.2 Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 16.3.

Instruction to contracting officers: Before contract award, choose either shipping option (a), (b), (c), or (d), and delete the unused options and this instruction..

- (a) Insert the following when the Contractor is located in the United States (U.S.):

Inbound Logistics Coordination Center (ILCC):

Telephone: 1-877-447-7701 (toll free)

Facsimile: 1-877-877-7409 (toll free)

E-mail: ILHQOttawa@forces.gc.ca

OR

- (b) Insert the following when the Contractor is located in United Kingdom (UK) and Ireland:

Inbound Logistics United Kingdom (ILUK):

Telephone: 011-44-1895-613023, or 011-44-1895-613024, or

Facsimile: 011-44-1895-613047

E-mail: CFSUEDetUKMovements@forces.gc.ca

In addition, the Contractor must send to ILUK the completed form "Shipping Advice and Export Certificate" by e-mail to:
CFSUEDetUKMovements@forces.gc.ca.

The shipment of any items above the value of 600 GBP (pound sterling) being exported from the United Kingdom and Ireland will be cleared by DND using Her Majesty's Customs & Excise (HMCE) New Export Systems (NES). The Contractor must comply with HMCE requirements by registering with HMCE or by having a freight forwarder complete the entry. A printed copy of the NES entry Export Declaration clearly displaying the Declaration Unique Consignment Reference Number must be provided by the Contractor and attached to the consignment. The Contractor must ensure that this procedure is carried out for all stores whether they be initial purchase or repair and overhaul export items. HMCE will authorize Canadian Forces Support Unit (Europe) to ship the goods only if the procedure has been adhered to completely and properly by the Contractor.

OR

- (c) Insert the following when the Contractor is located in a country other than Canada, the U.S., the UK and Ireland:

Inbound Logistics Europe Area (ILEA):

Telephone: +49-(0)-2451-717199 or 717200

Facsimile: +49-(0)-2451-717189

Email: ILEA@forces.gc.ca

OR

- (d) Insert the following for U.S. Foreign Military Sales (FMS):

Inbound Logistics Coordination Center (ILCC):

Telephone: 1-877-447-7701 (toll free)

Facsimile: 1-877-877-7409 (toll free)

Email: ILHQOttawa@forces.gc.ca

Canada is responsible for the carrier selection for shipments of the goods supplied under this FMS contract. Instructions on how to obtain carrier selection from Canada are contained in U.S. Department of Defense 4000.25-8-M, Military Assistance Program Address Directory, and Canadian Special Instructions Indicator (SII). The Contractor must not ship the goods until the SII has been complied with.

Instruction to contracting officers: Insert the following paragraphs 16.3 through 16.7 with all options above, except (d) - U.S. FMS, and delete this instruction

16.3 The Contractor must provide the following information to the DND Inbound Logistics contact when arranging for shipment:

- (a) the Contract number;
- (b) consignee address (if multiple addresses, items must be packaged and labeled separately with each consignee address);
- (c) description of each item;
- (d) the number of pieces and type of packaging (e.g. carton, crate, drum, skid);
- (e) actual weight and dimensions of each piece type, including gross weight;
- (f) copy of the commercial invoice (in accordance with clause C2608C, section 4, of the Standard Acquisition Clauses and Conditions Manual) or a copy of the Canada Border Services Agency form CII, Canada Customs Invoice;
- (g) Schedule B codes (for exports) and the Harmonized Tariff Schedule codes (for imports);
- (h) North American Free Trade Agreement Certificate of Origin (in accordance with clause C2608C, section 2) for the U.S. and Mexico only;
- (i) full details of dangerous material, as required for the applicable mode of transportation, signed certificates for dangerous material as required for shipment by the International Maritime Dangerous Goods Code, or International Air Transport Association regulations or the applicable Canadian Dangerous Goods Shipping Regulations and a copy of the material safety data sheet.

16.4 Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labelling, the marking of each piece with a Transportation Control Number and customs documentation.

16.5 The Contractor must not ship goods before receiving shipping instructions from the DND Inbound Logistics contact.

16.6 If the Contractor delivers the goods at a place and time that are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.

16.7 If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either thirty (30) days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or thirty (30) days following the delivery date specified in the Contract, whichever is later.

17. Post-Contract Award Meeting/Pre-Production Meeting

Within ten (10) working days of the receipt of the Contract, the Contractor must contact the Technical Authority to determine the details of a pre-production meeting. The meeting will be held at the Contractor's plant _____ (specify location). Cost of holding such pre-production meeting must be included in the price of the bid. Please note that the travel and living expenses for Government Personnel will be arranged and paid for by the Canada.

18. Progress Reports

The contractor must prepare and submit monthly progress reports in two (2) copies, one to the DND Procurement Authority and one copy of the report must also be forwarded to the PWGSC Contracting Officer.

Each progress report must address the following questions:

- (a) Is the delivery on schedule?
- (b) Is the Contract free of any areas of concern in which the assistance or guidance of Canada may be required?
- (c) Each negative response must be supported with an explanation.

19. Tools and Loose Equipment

For shipment verification, all items and tools, which are shipped loose with the vehicle/equipment must be listed on the Inspection Certificate (CF 1280) or on an attached packing note.

20. Spare Parts Availability

The contractor must ensure that spare parts required to properly maintain and repair the complete vehicle covered by this specification will be available for purchase by the Department of National Defence, or its authorized agents, for a period of _____ **years**.

21. Material

Material supplied must be new unused and of current production by manufacturer. (2012 model-year or later).

22. Interchangeability

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

23. Packaging

The methods used for preservation and packaging must be in conformity with the Contractor's normal standard for domestic shipment or, if necessary, with standards for overseas shipment as below deck cargo.

24. Service at Delivery

The Contractor must send a Service Representative to each delivery destination to perform the assembly/preparation on all vehicles delivered. Cost to provide this service must be included in the price of each vehicle.

ANNEX "A" - PRICING

Item 001 Class 8 Truck Tractor and Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long (**Firm Quantity**)

The Contractor must deliver the vehicle/equipment including the sample manuals, CD of all manuals, data summary, warranty letter(s), preventative maintenance replacement parts kit list and Special tools list, familiarization training, Line Setting Ticket and Safety Recalls and Servicing Data in accordance with the attached Annex "B" - Purchase Description - Class 8 Truck Tractor and sample manuals, CD of all manuals and warranty letter(s), Annex "C" - Purchase Description Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long.

The Class 8 Truck Tractor and Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long and related items must be delivered to:

Delivery contact: _____ (Name to be inserted by PWGSC at time of contract award.)

Date of delivery: _____ (Date to be inserted by PWGSC at time of contract award.)

Firm unit price of \$ _____ per vehicle/equipment , including all equipment and related items, in accordance with Basis of Payment Type 1 (as detailed at Clause 6.1 Basis of Payment).

Quantity: One (1)

Item 002 Class 8 Truck Tractors (**Optional Quantity**)

The Contractor must deliver the vehicle/equipment including the sample manuals, CD of all manuals, data summary, warranty letter(s), preventative maintenance replacement parts kit list and Special tools list, familiarization training, Line Setting Ticket and Safety Recalls and Servicing Data in accordance with the attached Annex "B" - Purchase Description - Class 8 Truck Tractor.

Firm unit price of \$ _____ per vehicle/equipment in accordance with Basis of Payment Type 2 (as detailed at Clause 6.1 Basis of Payment).

Quantity: Up to 2

Item 003 Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long(**Optional Quantity**)

The Contractor must deliver the vehicle/equipment including the sample manuals, CD of all manuals and warranty letter(s), in accordance with the attached Annex and Annex "C" - Purchase Description Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long.

Firm unit price of \$ _____ per vehicle/equipement in accordance with Basis of Payment Type 2 (as detailed at Clause 6.1 Basis of Payment).

Quantity: 1

Item 004 Familiarization instructions/training (Option)

If this option is exercised, the Contractor must provide up to three (3) familiarization instruction/training, in accordance with the attached Annex "B" - Purchase Description - Class 8 Truck Tractor and Annex "C" - Purchase Description Semi-Trailer, Retractable Wall, 35 Ton (70,000lbs) Dual Wheel, Tridem-Axle, 53 Feet Long.

Firm unit price of \$ _____ in accordance with Basis of Payment Type 2 (as detailed at Clause 6.1 Basis of Payment).

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive (<http://www.njc-cnm.gc.ca/directive/index.php?sid=90&hl=1&lang=eng>), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

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

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

Item 005 Optional Extended Warranty Period

Optional warranty coverage available: YES _____ NO _____

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

(This item will not be included in the financial evaluation)

If exercised, the warranty period will be extended for an additional period of _____ months/calendar days.

Firm unit price of \$_____ Basis of Payment Type 2 (as detailed in Part 6)

PURCHASE DESCRIPTION
FOR
CLASS 8 HEAVY TRUCK TRACTOR

1.0 SCOPE

1.1 Scope

This Purchase Description describes the requirements for Class 8 Heavy Truck Tractor, 6x4 configuration.

1.2 Primacy of Requirements

This document shall be used in conjunction with the Semi-Trailer, Retractable Wall Purchase Description.

1.3 Instructions

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

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

1.4 Definitions

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

- (a) “Technical Authority” - The government official responsible for technical content of this requirement;
- (b) “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;
- (c) “Proof of Compliance” - A document such as a brochure, a third party test report, a report generated by third party software, or a certificate of attestation signed by a senior representative of the Original Equipment Manufacturer (such as a certified engineer) indicating the performance and/or feature specified.
- (d) The term "Quality Assurance Representative" is defined as the government officer responsible for ensuring that the contractor quality system, material and services supplied meet the contract requirement; and
- (e) “Vehicle” is defined as a Class 8 Heavy Truck Tractor, 6x4 configuration;
- (f) The abbreviation “GVWR” represents gross vehicle weight rating;
- (g) The abbreviation “GCWR” represents gross combined weight rating; and
- (h) The abbreviation “GAWR” represents gross axle weight rating.

1.5 Technical Information Questionnaire(s)

The following applies:

- (a) The bidder shall complete a Technical Information Questionnaire for the Class 8 Heavy Truck Tractor offered. Failure to provide specified brochures, performance analysis, drawings, curves or tables may render the proposal non-compliant; and
- (b) A nil response to a Technical Information Questionnaire question may be considered non-compliant. Any deviation from the purchase description shall be listed in the Conformance Certificate.

1.6 CONFIGURATION CAPABILITY TABLE

The following table details the minimum design requirements, which shall be met for the configuration offered:

	GVWR	GCWR	GAWR FRONT	GAWR REAR	FIFTH WHEEL LOAD	TOWED LOAD
WEIGHT RATINGS (Pounds)	27,273 kg (60,000 lbs)	63,636 kg (140,000 lbs)	6364 kg (14,000 lbs)	20, 909 kg (46,000 lbs)	13,636 kg (30,000 lbs)	50,000 kg (110,000 lbs)
VEHICLE SPEED				105 km/h (65 mph)		
VEHICLE GRADEABILITY				0.7 Percent at 90 km/h (56 mph)		
FRAME RBM (Pounds-Inch)				2,130,000		
TANDEM SPACING (Nominal)				137 cm (54 in)		
ENGINE HORSEPOWER				500		
FUEL RESERVOIR CAPACITY				1,040 Litres (230 Imperial Gallons)		

2.0 APPLICABLE DOCUMENTS

The following documents form part of this purchase description. Effective documents are those in effect on the date of manufacture. Sources are as shown:

SAE Handbook

Society of Automotive Engineers Inc.

400 Commonwealth Drive, Warrendale. P A 15096

Canadian Motor Vehicle Safety Standards (CMVSS)

International Standards Council of Canada

Safety Acts and Regulations

Standardization Branch. 350 Sparks St

Suite 1200. Ottawa. Ontario K1P 6N7

Year Book

Tire and Rim Association Inc.

3200 West Market Street, Akron, Ohio, 44313

3.0 REQUIREMENTS

3.1 Standard Design

The vehicle design shall:

- (a) Be based on the chassis manufacturer's latest model;
- (b) Be based on an equipment variant model having demonstrated industry acceptability by having been manufactured and sold commercially, or, be manufactured by a company that has at least 5 years experience in manufacturing a comparable type of equipment of equivalent or greater complexity;
- (c) Have engineering certification available, upon demand, for this vehicle/equipment from the original manufacturers of major drive train components and major equipment systems and assemblies;
- (d) Conform to all applicable laws, regulations and industry standards governing manufacture, safety, noise levels and pollution in effect in Canada at time of manufacture;
- (e) Not have system and component capacities increased above published ratings (i.e. product or component brochures); and
- (f) Include all components, and accessories normally supplied for the intended equipment application, although they may not be specifically described in this Purchase Description.

3.2 Operating Conditions

The vehicle, with the stated payload, shall operate safely and efficiently on paved roads, gravel roads and dirt roads with severe washboard, pot holes and off-road terrain in year round conditions including mud, snow and ice in the temperature range of -34°C to 37°C (-30°F to 98°F).

3.3 Vehicle Safety Regulations

The vehicle shall meet the provisions of the Canada Motor Vehicle Safety Act in effect upon the date of manufacture. The completed vehicle shall have a Safety Compliance Certification Label with a National Safety Mark (NSM), as a seal of compliance.

3.3.1 Variant Equipment Integrator(s) Certification

The bidder shall submit, upon request, the variant equipment integrator National Safety Mark (NSM) certification number and a proof of registration with Transport Canada as a Final Stage Manufacturer for the vehicle.

3.4 Human Engineering and Safety

The following applies:

- (a) All systems and components shall be safe and easy to use by a 5-95th percentile male or female, in accordance with SAE Rule B3.9.4, under all operating conditions;
- (b) Entry and exit points shall be equipped with handles and steps suitably positioned where required, to accommodate a 5-95th percentile male or female under all operating conditions; and
- (c) Safety features such as warning and instruction plates, non-slip surfaces and heat shields shall be provided where required.

3.5 Performance

The vehicle shall have the following minimum performance capabilities:

- (a) Top geared road speed of at least that identified as “VEHICLE SPEED” in the CONFIGURATION CAPABILITY TABLE;
- (b) Vehicle gradeability of at least that identified as “VEHICLE GRADEABILITY” in the CONFIGURATION CAPABILITY TABLE; and
- (c) Gross engine horsepower of at least that identified as “ENGINE HORSEPOWER”, in the CONFIGURATION CAPABILITY TABLE.
- (d) The Bidder shall provide a computer generated vehicle performance prediction analysis with the Technical Information Questionnaire for the vehicle. Analysis shall be performed in conformance with SAE J2188 and using the power train specified and a fully loaded vehicle. A fully loaded vehicle is a vehicle having a Gross Combined Weight Rating identified as “GCWR” in the CONFIGURATION CAPABILITY TABLE.

3.6 Ratings

The vehicle shall have the following minimum ratings:

- (a) Weight ratings of at least that identified as “GVWR”, “GCWR”, “GAWR FRONT” and “GAWR REAR” in the CONFIGURATION CAPABILITY TABLE; and
- (b) Load ratings of at least that identified as “FIFTH WHEEL LOAD” and “TOWED LOAD” in the CONFIGURATION CAPABILITY TABLE.

3.7 Dimensions

The vehicle shall have the following nominal dimensions:

- (a) A tandem axle spacing dimension, identified as “TANDEM SPACING” in the CONFIGURATION CAPABILITY TABLE; and
- (b) Maximum wheelbase of 244-inches (620cm).

3.8 Engine
The engine shall:

- (a) Operate on ultra low sulphur diesel fuel;
- (b) Meet current Canadian emission standards; and
- (c) Be turbocharged and electronically controlled.

3.8.1 Engine Components
The engine shall⁽⁶⁾ include:

- (a) A replaceable dry-type (two stage minimum) air filter that includes a filter restriction gauge;
- (b) Engine coolant for temperatures down to -34°C (-30°F);
- (c) Exhaust system including a vertical stack or stacks that clear the body roof line and fitted with an exhaust elbow; and
- (d) A cooling system that includes a thermostatic fan and a dash mounted fan override switch.

3.8.2 Fuel System
The vehicle shall be equipped with:

- (a) Dual fuel reservoirs that are mounted on heavy-duty support brackets having a minimum total capacity of no less than that identified as “FUEL RESERVOIR CAPACITY” in the CONFIGURATION CAPABILITY TABLE

3.8.3 Cold Weather Starting Aids
The vehicle shall be equipped with:

- (a) A 110-volt coolant block heater of the highest wattage capacity recommended by the engine manufacturer;
- (b) A fuel filter/water separator incorporating a thermostatically controlled heater;
- (c) A cold weather starting fluid injection system or an air intake heater system. If a cold weather starting fluid injection system is installed it shall include:
 - i. A thermostatically controlled safety shut-off device to prevent the injection of starting fluid into a hot air intake;
 - ii. An easily accessible spin-on starting fluid reservoir, changeable without special tools; and
 - iii. An automatic control, enabling operation only when the starter is engaged;
- (d) A 115 Volt oil-fired pre-heater.

3.8.4 Engine Equipment

The following Engine Equipment shall be provided:

- (a) An internal engine compression brake system; and
- (b) A self-regulating in-line electric or coolant type fuel heater to warm the fuel before it enters the fuel filter(s) and to maintain the fuel temperatures above the waxing/gelling point during cold weather operation. The fuel heater shall^(e) be an Arctic Fox or Technical Authority Approved Equivalent.

3.9 Transmission

The vehicle shall be equipped with a manual transmission having at least 18 forward speeds. The throw-out bearing shall^(e) be able to be lubricated without removal of the inspection cover.

3.10 Steering

The vehicle shall be equipped with a power assisted steering system with a telescopic/tilt steering column.

3.11 Brakes

The vehicle shall be equipped with full air actuated service brakes and spring actuated parking brakes, which comply with Canadian Motor Vehicle Safety Regulation (CMVSS) MVSR 121-1. The brakes system shall:

- (a) Include a 4-channel anti-lock (ABS) brake system;
- (b) Be S-cam type air brakes with automatic slack adjusters;
- (c) Include a minimum 0.42 cubic metre per minute (15 cfm) air compressor;
- (d) Include a wet air reservoir capable of being recharged using a quick disconnect fitting for charging air system. The air tank shall^(e) be equipped with pull type drain connected with cable and could be reached from outside of the vehicle. An alternative method of drain valve operation may be considered for acceptance by the Technical Authority with appropriate substantiation;
- (e) Include an automatic air dryer such as the Bendix Model AD9. An equivalent may be considered for acceptance by the Technical Authority with appropriate substantiation;
- (f) Be equipped with heated automatic moisture expelling valve(s);
- (g) Include brake housing dust shields and visual brake stroke indicators on all wheels;
- (h) Include emergency brake chambers on both rear axles; and
- (i) Include a trailer brake control mounted at the operator's station on or near the steering column.

3.12 Wheels and Tires

The vehicle shall be equipped with steel-belted, tubeless radial tires mounted on hub pilot disc wheels that are balanced to preclude wheel shimmy at all vehicle speeds. The following shall^(e) be provided:

- (a) 12R22.5 Highway tread design tires on front axle;

- (b) 11R22.5 Mud and snow tread design tires on rear axles; and
- (c) Aluminum wheels.

3.13 Suspension

The vehicle shall be equipped with spring suspension at the front and a standard highway type air suspension at the rear. The suspension systems shall^(e) include:

- (a) Immediate response automatic height control valves;
- (b) Double acting shock absorbers on all axles;
- (c) Air pressure dump valve with indicator light, gauge and buzzer. The controls shall be located in the cab and accessible to the driver.

3.14 Axles

The vehicle shall be equipped with Manufacturer's Standard I-Beam front axle and a single speed tandem rear drive axle. The following axle configuration and equipment shall be provided:

- (a) A front axle setback of 1016 mm to 1321 mm (40 to 52 inches); and
- (b) Driver controlled differential locks on both rear axles.

3.15 Frame

The vehicle frame rails shall:

- (a) Have a resisting bending moment using 110,000 psi High Strength Steel of at least that identified as "FRAME RBM" in the CONFIGURATION CAPABILITY TABLE.

3.16 Cab/Sleeper

The vehicle shall be equipped with a conventional air-suspended cab/sleeper configuration. The cab/sleeper configuration shall^(e):

- (a) Be a fully integral sloped roof, no wind deflector, walkthrough type unit that is fully open from the cab into the sleeper;
- (b) Have a sleeper area that is 72-inches (minimum) when measured from the rear of the seats to the interior of the rear wall of the sleeper;
- (c) Be equipped with the manufacturer's sleeper and side mounted skirting;
- (d) Be equipped with power windows and power door locks;
- (e) Be equipped with a visibility window in the front lower portion of the right-hand door or a look-down mirror mounted at the top of right-hand Door;
- (f) Include premium insulation in both the cab and sleeper areas (including floors);
- (g) Include dark upholstery, coat hooks, vinyl floor mats, and moulded arm rests on both the L/H and R/H doors;

- (h) Include two rotating and pivoting interior sun visors and an exterior sun visor;
- (i) Include two aerodynamic, heavy-duty, heated, motorized, rear view mirrors with a glass area of approximately 6-in x 16-in and painted same colour as cab. Each mirror shall^(e) include a convex section;
- (j) Include tinted glass;
- (k) Include a factory installed air conditioning system operating on an environmentally friendly refrigerant;
- (l) Include an overhead console equipped with hook-ups for a cellular phone and CB radio. The hook-ups shall^(e) include the electrical and coax cable, antenna and mounts;
- (m) Include an AM/FM radio with CD player;
- (n) Include two air horns. Snow shields to be provided if horns are mounted on the roof;
- (o) Include tripod mirrors mounted on R/H and L/H fenders; and
- (p) Include a clear plastic stone and bug deflector mounted on the front hood.

3.16.1 Sleeper Unit Accessories

The sleeper unit shall be equipped with the following suitably sized and cabinet installed (where applicable) accessories:

- (a) A twin bunk- bed with foam mattresses;
- (b) A refrigerator, capable of operating off 12V or 115V with an inverter;
- (c) A microwave oven, capable of operating off 12V or 115V with an inverter; and
- (d) An air conditioner/ heating unit with digital thermostat control panel that includes an alarm clock.

3.16.2 Seats

The vehicle shall be equipped with a high back air suspended type driver and co-driver seats with cloth inserts and fold-up armrests. The seats shall^(e):

- (a) Be operated by the use of push buttons and the air supplied from the vehicle air system; and
- (b) Be equipped with retractable shoulder/lap belt assemblies.

3.17 Controls and Instruments

The vehicle shall be equipped with:

- (a) Electric windshield washers;
- (b) Intermittent windshield wipers;
- (c) Cruise control system with a fast idle feature;

- (d) A tachometer;
- (e) An odometer;
- (f) A coolant temperature gauge with a high coolant temperature indicator;
- (g) A transmission temperature gauge with a high transmission temperature indicator;
- (h) An oil pressure gauge with a low engine oil pressure indicator;
- (i) A voltmeter or ammeter;
- (j) A low air pressure indicator;
- (k) A differential lock(s) engaged indicator; and
- (l) A back-up alarm system.

3.18 Electrical System

The vehicle shall be equipped with manufacturer's standard 12-volt electrical system. The system shall^(e) include:

- (a) An alternator with an output of at least 130 amperes;
- (b) Four extra switches in the dash;
- (c) Fuses or circuit breakers protecting all circuits;
- (d) An isolation bar to prevent trickle discharge of the batteries; and
- (e) Insulating grommets where wiring passes through metal.

3.18.1 Batteries

Heavy duty maintenance free batteries shall be provided. The batteries shall have a total cold cranking ampere capacity of at least 2500 cold cranking amperes (CCA).

3.18.2 Lights

The vehicle shall be equipped with LED lights. The vehicle shall be equipped with the following lights that comply with the Highway Traffic Regulations:

- (a) Halogen headlights;
- (b) Fog lights inset into the front bumper;
- (c) Clearance lights; and
- (d) Stop, turn signal, and taillights.

3.19 Tractor Package

The vehicle shall be equipped with a tractor package. The tractor package shall include:

- (a) An air operated adjustable fifth wheel assembly with a slide adjustment range of approximately 58 cm (23 inches). The vehicle shall have an unloaded fifth wheel height of 122 cm (48 inches) maximum;
- (b) Tapered fifth wheel pick-up ramps;
- (c) A non-slip expanded aluminum deck plate covering the area between the rear of the cab and the fifth wheel and a non-slip expanded aluminum step assembly to access the deck plate;
- (d) Coiled trailer brake hoses equipped with gladhands located behind the cab/sleeper. Hoses may have to be routed through headache rack specified below;
- (e) One seven conductor coil type cable assembly with two receptacles (one for non-ABS and one for ABS hook-ups) and a towel bar or other device mounted on the rear of sleeper unit or the headache rack used to support the unhooked cables;
- (f) Quarter-length stainless steel fenders; and
- (g) A fixed fifth-wheel utility light, controlled from the cab to illuminate the fifth wheel area of the tractor.

3.20 Headache Rack

The vehicle shall be equipped with a headache rack assembly. The headache rack assembly shall^(e) include:

- (a) Lockable chain racks on each side and one middle enclosed compartment with adjustable shelves. The side racks shall^(e) be capable of holding up to ten chains;
- (b) Water evacuators installed in the floor of the enclosed compartment for the purpose of evacuating any condensation that may have entered the compartment. The compartment shall^(e) be equipped with lockable door. The compartment shall^(e) be sprayed with X- Box Liner or a Technical Authority Approved Equivalent and lined with a tough perforated vinyl matting such as Dry-Dek® vinyl flooring mat or Technical Authority Approved Equivalent;
- (c) Grab handles mounted on each side of the headache rack;
- (d) One (1) deck light (flood) mounted top centre pointing at the 5th wheel; and
- (e) A step mounted on each side of frame rail to allow easy access to the headache rack.
- (f) Two LED strobe lights mounted on each side of the headache rack.

3.21 On-board Scale System

The vehicle shall be equipped with an on-board scale system of the Air-Weigh Model AW5800 or Technical Authority approved equivalent that operates by converting air pressure in the truck and trailer air suspension into on-the-ground weight at the truck steer axle, truck drive axle, and trailer axle assembly. The system shall^(e) include:

- (a) A master digital truck scale display gauge mounted in the dash of the tractor and used by the operator to monitor the axle weights as well as enter weight data for calibration;

- (b) A digital trailer axle scale compatible to the truck scale display gauge;
- (c) An on-board processor for capturing sensor data and storing calibration values;
- (d) Fittings and air pressure sensors used to determine pressure changes in the vehicle's air suspension; and
- (e) Interface cables and wiring connecting both the truck and trailer scale systems.

3.22 Auxiliary Power Unit

The vehicle shall be equipped with an auxiliary power unit (APU). The main purpose of this unit is to reduce the amount of truck engine idling time. The APU shall^(e):

- (a) Be a stand-alone self-contained system able to provide the following:
 - i. Heat and air conditioning to the cab/sleeper. The air conditioning system shall^(e) operate on an environmentally friendly refrigerant;
 - ii. 110-volt AC current to power accessories such as engine block heater, refrigerator, microwave oven, and TV with CD Player; and
 - iii. 12-volt DC current for charging the truck batteries;
- (b) Be capable of being installed and operated without tapping into the vehicle's heating or air conditioning systems;
- (c) Draw its fuel from the vehicle's fuel tanks;
- (d) Be housed in a sound and weatherproof stainless steel or aluminum enclosure with a removable access cover that is suitably vented to allow the engine to be operated when the enclosure is shut;
- (e) Be mounted to the vehicle mainframe rail preferably on the R/H side between the sleeper unit and the intermediate axle. The unit shall^(e) be mounted in a manner that will ensure protection from normal road and vehicle vibrations; and
- (f) Be equipped with a remote control with a programmable 7-day digital timer located in the sleeper.

3.23 Miscellaneous Equipment

The vehicle shall^(e) be equipped with the following:

- (a) License plate mounting provision, front and rear. The Rear licence plate shall^(e) be illuminated;
- (b) Front and rear mud flaps. The rear mud flaps shall^(e) be mounted on angle type spring loaded hangers;
- (c) Tow hooks mounted at the front and at the rear, hooks and mountings of sufficient strength to permit the recovery of the vehicle;
- (d) A weatherproof compartment shall be provided. The compartment shall^(e) be installed on the right side of frame rail. The compartment shall^(e) be approximately 61 cm X 61 cm X 61 cm (24 inches X 24 inches X 24 inches) and equipped with lockable door(s). The compartment shall^(e) be sprayed with X- Box Liner or Technical Authority Approved Equivalent and lined with a tough

perforated vinyl matting such as Dry-Dek® vinyl flooring mat or Technical Authority Approved Equivalent. The compartment shall^(e) be equipped with a drain valve; and

- (e) Pneumatic automatic lubrication system.

3.24 Paint

The vehicle shall^(e):

- (a) Be painted White. The paint shall^(e) be applied using good industrial practices for workmanship, rendering a durable finish and a smooth appearance, free from runs, sags and orange peel.

3.25 Corrosion Protection

The vehicle shall be treated with manufacturer's standard corrosion protection.

3.26 Identification

The following information shall^(e) be permanently affixed in a conspicuous and protected location:

- (a) The manufacturer's name, model number, serial number and model year; and
- (b) The GVWR and GAWR ratings (as applicable).

3.27 Warning and Instruction Plates

The vehicle shall^(e) be equipped with warning and equipment operation instruction plates that are in accordance SAE J115. The plates shall^(e):

- (a) Be within easy view of the operator, be bilingual (English and French); and/or
- (b) Make use of graphic symbols, as much as possible, as defined in SAE J1362.

3.28 Vehicle Delivery Condition

The vehicle shall be delivered to destination in a fully operational condition (serviced and adjusted) and both the interior and exterior shall be cleaned. If the vehicle requires assembly at destination, the Contractor shall be responsible for all manpower and equipment to perform assembly. The consignee will provide the area required for assembly. For shipment verification, all items such as wheel wrenches, jacks, and all other tools, equipment and accessories, which are shipped loose with the vehicle, shall be listed on the shipping certificate or to an attached packing note.

3.29 Deliverable Information

The Contractor shall provide the Deliverable Information:

- (a) Equipment Manuals – The following manuals shall be provided:
 - i. Operator's Manual – The Operator's Manual shall be furnished in a bilingual format or as two (2) manuals in a single binder (one in English, one in French). The Operator's Manual shall contain the following information:
 - a. Instructions for the safe operation of the vehicle;
 - b. Daily operator maintenance instructions/checks (including lubrication); and
 - c. Safety Warnings;
 - ii. Parts Manual – The Parts Manuals shall be in English. The Parts Manuals shall contain the following information:

- a. Illustrations showing all components of the vehicle including Equipment and accessories from other manufacturers that is supplied against the requirements of the contract. The illustrations shall have numbers for the itemization of the parts;
 - b. A listing for all itemized parts showing the manufacturer's part numbers (including Original Equipment Manufacturer's) of the illustration, the part name and a brief description of the item; and
 - c. Cross reference relating all part numbers (including Original Equipment Manufacturer's) to the correct figure and item number.
- iii. Maintenance (Shop Repair) Manuals - The Maintenance (Shop Repair) Manual shall be in English. The Maintenance (Shop Repair) Manual shall contain the following information:
 - a. A trouble shooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of what steps would be required to correct a problem;
 - b. A listing of the necessary tolerances, torque levels, fluid volumes required. A section listing any special tools (including item part numbers) required shall be included; and
 - c. Information on the order of disassembly and assembly of the systems and components of the vehicle;
- iv. Miscellaneous Equipment Manuals – Miscellaneous equipment are assemblies not produced by the prime manufacturer that are added to the vehicle, which have their own set of manuals. This shall include:
 - a. Operating Instructions;
 - b. Parts Manual; and
 - c. Maintenance Manual (Shop Repair);

NOTE: Manuals on CD/DVD-ROM will be acceptable. A hard copy chassis Operator's Manual shall be provided with each vehicle.

- (b) Data Summary – A Data Summary for the vehicle by completing the Technical Authorities template;
- (c) Warranty Letter – A paper copy of the completed bilingual Warranty Letter shall be delivered with the vehicle, and a copy of the Warranty Letter in electronic format (PDF) shall be delivered to the Technical Authority;
- (d) Preventive Maintenance Replacement Parts List - The Contractor shall provide to the Technical Authority a listing of the parts that are required to perform preventive maintenance to the vehicle for a period of six (6) months. Components such as fan belts and fuses shall^(e) be included. The list shall include, as a minimum, the following elements:
 - i. Part description;
 - ii. Original Equipment Manufacturer Part number;
 - iii. Suggested quantity; and
 - iv. Unit cost.
- (e) Line Setting Ticket – A Line Setting Ticket, or equivalent, describing the components provided on the cab and chassis;

- (f) Familiarization – A Contractor representative shall provide a minimum of three hours of Operator familiarization training to a maximum of three persons and a minimum of three hours of Maintainer familiarization training to a maximum of three persons; and
- (g) Safety Recalls and Servicing Data - The following information shall be provided to the Customer locations, on a continuing basis, throughout the life expectancy of the vehicle (15 years):
 - i. Safety recalls; and
 - ii. Manufacturer's technical service bulletins.

Note: This service can be made available as an Internet Service.

TECHNICAL INFORMATION QUESTIONNAIRE

CLASS 8 HEAVY TRUCK TRACTOR

DETACH, COMPLETE, AND RETURN

1.0 SCOPE

This Questionnaire covers technical information to be supplied by a bidder. This information is required by the Technical Authority for technical assessment of equipment offered. If a paragraph item does not apply to the Configuration, insert NA in response.

NOTE: IT IS THE BIDDERS RESPONSIBILITY TO CLARIFY OUTSTANDING TECHNICAL ISSUES, BY WRITTEN REQUEST, TO THE CONTRACTING OFFICER PRIOR TO BID SUBMISSION.

PURCHASE DESCRIPTION PARAGRAPHS

3.1 Standard Design - Complies? _____ No ____ Yes ____

Otherwise explain _____

Make/Model _____

3.2 Operating Conditions - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.3 Vehicle Safety Regulations - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.3.1 Variant Equipment Integrator(s) Certification - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.4 Human Engineering and Safety - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.5 Performance - Complies? _____ No ____ Yes ____

(a) Vehicle Speed - _____ km/h/or _____ mph

(b) Vehicle Gradeability - _____ Percent at _____ km/h/or _____ mph

(c) Engine Horsepower - _____ HP

(d) Computer Generated vehicle performance prediction included? _____ No ____ Yes ____

Otherwise explain _____

3.6 Ratings - Complies? _____ No ____ Yes ____

(a) Gross Vehicle Weight Rating (GVWR) - _____ kg/or _____ lbs

Gross Combination Weight Rating (GCWR) - _____ kg/or _____ lbs

Gross Axle Weight Rating (GAWR FRONT) - _____ kg/or _____ lbs

Gross Axle Weight Rating (GAWR REAR) - _____ kg/or _____ lbs

(b) Fifth Wheel Load - _____ kg/or _____ lbs

Towed Load - _____ kg/or _____ lbs

3.7 Dimensions - Complies? _____ No ____ Yes ____

(a) Tandem Spacing - _____ cm/or _____ inches

(b) Wheelbase - _____ cm/or _____ inches

3.8 Engine - Complies? _____ No ____ Yes ____

Otherwise explain _____

Make/Model _____

3.8.1 Engine Components - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.8.2 Fuel System - Complies? _____ No ____ Yes ____

Otherwise explain _____

Fuel Reservoir Capacity - _____ litres/or _____ Imperial Gallons

3.8.3 Cold Weather Starting Aids - Complies? _____ No ____ Yes ____

Otherwise explain _____

(a) Coolant Block Heater

Make/Model _____

Power _____ Watts

(b) Fuel Filter/Water Separator

Make/Model _____

(c) Cold weather starting fluid injection system

Make/Model _____

(d) Air Intake Heater

Make/Model _____

3.8.4 Engine Equipment - Complies? _____ No ____ Yes ____

Otherwise explain _____

(a) Engine Compression Brake

Make/Model _____

(b) Fuel Heater

Make/Model _____

3.9 Transmission - Complies? _____ No ____ Yes ____

Otherwise explain _____

Make/Model _____

Number of Forward Speeds _____

3.10 Steering - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11 Brakes - Complies? _____ No ____ Yes ____

Otherwise explain _____

(a) ABS

Make/Model _____

(c) Air compressor

Capacity _____ Cfm

(d) Air Reservoir

Capacity _____ Cu-Ft

(e) Air dryer

Make/Model _____

(i) Trailer brake Control

Make/Model _____

3.12 Wheels and Tires - Complies? _____ No ____ Yes ____

Otherwise explain _____

(a) Front Tires

Make _____ Size _____

Tread Pattern _____

(b) Rear Tires

Make _____ Size _____

Tread Pattern _____

(c) Wheels

Type _____

3.13 Suspension - Complies? _____ No ____ Yes ____

Otherwise explain _____

Front

Make/Model _____

Rated Capacity - _____ kg/or _____ lbs

Rear

Make/Model _____

Rated Capacity - _____ kg/or _____ lbs

3.14 Axles - Complies? _____ No ____ Yes ____

Otherwise explain _____

Front Steer Axle

Make/Model _____

Rated Capacity - _____ kg/or _____ lbs

Front Axle Setback

Range - _____ mm/or _____ inches

Tandem Rear Drive Axle

Make/Model _____

Rated Capacity - _____ kg/or _____ lbs

Differential Lock

Make/Model _____

3.15 Frame - Complies? _____ No ____ Yes ____

Otherwise explain _____

Steel Strength _____ psi

RBM _____ lbs-in

3.16 Cab/Sleeper - Complies? _____ No ____ Yes ____

Otherwise explain _____

(b) Sleeper Area - Complies? _____ No ____ Yes ____

Size _____ inches

(d) Power Windows/Door Locks - Complies? _____ No ____ Yes ____

Otherwise explain _____

(e) Visibility Window - Complies? _____ No ____ Yes ____

Otherwise explain _____

(i) Mirrors - Complies? _____ No ____ Yes ____

Otherwise explain _____

(j) Tinted Glass - Complies? _____ No ____ Yes ____

Otherwise explain _____

(k) Air Conditioning - Complies? _____ No ____ Yes ____

Otherwise explain _____

Make/Model _____

Refrigerant _____

(m) AM/FM Radio w/CD Player - Complies? No ____ Yes ____

Otherwise explain _____

Make/Model _____

(n) Air Horns - Complies? No ____ Yes ____

Otherwise explain _____

(o) Tripod Mirrors - Complies? No ____ Yes ____

Otherwise explain _____

(p) Stone and Bug Deflector - Complies? No ____ Yes ____

Otherwise explain _____

3.16.1 Sleeper Unit Accessories - Complies? _____ No ____ Yes ____

Otherwise explain _____

(a) Bed - Complies? No ____ Yes ____

Otherwise explain _____

(b) Refrigerator - Complies? No ____ Yes ____

Otherwise explain _____

Make/Model _____

Size _____ Cu Ft

(c) Microwave Oven - Complies? No ____ Yes ____

Otherwise explain _____

Make/Model _____

Size _____ Cu Ft

(d) Air Conditioner/Heater - Complies? No ____ Yes ____

Otherwise explain _____

Make/Model _____

Refrigerant _____

3.16.2 Seats - Complies? _____ No ____ Yes ____

Otherwise explain _____

Make/Model _____

3.17 Controls and Instruments - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.18 Electrical System - Complies? _____ No ____ Yes ____

Otherwise explain _____

Alternator Output _____ Amperes

3.18.1 Batteries - Complies? _____ No ____ Yes ____

Otherwise explain _____

Batteries Qty _____ Total CCA _____

3.18.2 Lights - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.19 Trailer Package - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.20 Headache Rack - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.21 On-Board Scale System - Complies? _____ No ____ Yes ____

Otherwise explain _____

Make/Model _____

3.22 Auxiliary Power Unit - Complies? _____ No ____ Yes ____

Otherwise explain _____

Make/Model _____

3.23 Miscellaneous Equipment - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.24 Paint - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.25 Corrosion Protection - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.26 Identification - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.27 Warning and Instruction Plates - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.28 Vehicle Delivery Condition - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.29 Deliverable Information - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.30 Equipment Manuals - Complies? _____ No ____ Yes ____

Otherwise explain _____

Conformance Certificate - If the vehicle and equipment offered do not conform exactly to the requirements of this purchase description, any deviation shall be listed below. If there are no deviations, this fact shall be stated below.

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface.

NO DEVIATIONS

FIRM NAME _____

ADDRESS _____

NAME _____ TITLE _____

TELEPHONE NUMBER _____ FAX NUMBER _____

SIGNATURE _____ DATE _____

**PURCHASE DESCRIPTION
FOR
SEMI-TRAILER, RETRACTABLE WALL, 35 TON, (70,000 LBS),
DUAL WHEEL, TRIDEM-AXLE, 53 FEET LONG**

1.0 SCOPE

1.1 Scope

This Purchase Description describes the requirements for a retractable wall semi-trailer.

1.2 Primacy of Requirements

This document shall be used in conjunction with the Class 8 Heavy Truck Tractor Purchase Description.

1.3 Instructions

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

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

1.4 Definitions

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

- (a) “Technical Authority” - The government official responsible for technical content of this requirement;

- (b) “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;
- (c) “Proof of Compliance” - A document such as a brochure, a third party test report, a report generated by third party software, or a certificate of attestation signed by a senior representative of the Original Equipment Manufacturer (such as a certified engineer) indicating the performance and/or feature specified;
- (d) The term "Quality Assurance Representative" is defined as the government officer responsible for ensuring that the contractor quality system, material and services supplied meet the contract requirement;
- (e) “Vehicle” is defined as a trailer chassis complete with an integrated van body;
- (f) The abbreviation “GVWR” represents gross vehicle weight rating; and
- (g) The abbreviation “GAWR” represents gross axle weight rating.

1.5 Technical Information Questionnaire

The following applies:

- (a) The bidder shall complete a Technical Information Questionnaire for the trailer configuration offered. Failure to provide specified brochures, performance analysis, drawings, curves or tables may render the proposal non-compliant; and
- (b) A nil response to a Technical Information Questionnaire question may be considered non-compliant. Any deviation from the purchase description shall be listed in the Conformance Certificate.

2.0 **APPLICABLE DOCUMENTS**

2.1 Government Furnished Documents

NOT ALLOCATED

2.2 Other Publications

The following documents form part of this Purchase Description. Effective dates shall be those in effect upon the date of manufacture. Sources are as shown:

SAE Handbook

Society of Automotive Engineers Inc.

400 Commonwealth Drive, Warrendale. P A 15096

Canadian Motor Vehicle Safety Standards (CMVSS)

International Standards Council of Canada

Safety Acts and Regulations

Standardization Branch. 350 Sparks St

Suite 1200. Ottawa. Ontario K1P 6N7

Year Book

Tire and Rim Association Inc.

3200 West Market Street, Akron, Ohio, 44313

3.0 **REQUIREMENTS**

3.1 Standard Design

The trailer design shall:

- (a) Be based on the chassis manufacturer's latest model;
- (b) Be based on an equipment variant model having demonstrated industry acceptability by having been manufactured and sold commercially, or, be manufactured by a company that has at least 5 years experience in manufacturing a comparable type of equipment of equivalent or greater complexity;
- (c) Have engineering certification available, upon demand, for this vehicle/equipment from the original manufacturers of major drive train components and major equipment systems and assemblies;
- (d) Conform to all applicable laws, regulations and industry standards governing manufacture, safety, noise levels and pollution in effect in Canada at time of manufacture;
- (e) Not have system and component capacities increased above published ratings (i.e. product or component brochures); and
- (f) Include all components, and accessories normally supplied for the intended equipment application, although they may not be specifically described in this Purchase Description.

3.2 Operating Conditions

The trailer, with the stated payload, shall operate safely and efficiently on paved roads, gravel roads and dirt roads with severe washboard, pot holes and off-road terrain in year round conditions including mud, snow and ice in the temperature range of -34°C to 37°C (-30°F to 98°F).

3.3 Vehicle Safety Regulations

The trailer shall meet the provisions of the Canada Motor Vehicle Safety Act in effect upon the date of manufacture of the trailer. The completed trailer shall have a Safety Compliance Certification Label with a National Safety Mark (NSM), as a seal of compliance.

3.3.1 Variant Equipment Integrator(s) Certification

The bidder shall submit, upon request, the variant equipment integrator National Safety Mark (NSM) certification number and a proof of registration with Transport Canada as a Final Stage Manufacturer for the applicable variant equipment.

3.4 Human Engineering and Safety

The following applies:

- (a) All systems and components shall be safe and easy to use by a 5-95th percentile male or female, in accordance with SAE Rule B3.9.4, under all operating conditions;
- (b) Entry and exit points shall be equipped with handles and steps suitably positioned where required, to accommodate a 5-95th percentile male or female under all operating conditions; and

- (c) Safety features such as warning and instruction plates, non-slip surfaces and heat shields shall be provided where required.

3.5 Payloads

The trailer shall be capable of carrying a uniformly distributed load of 31,818 kg (70,000 lb).

3.6 Dimensions

The following nominal dimensions shall^(E) be provided:

- (a) Overall width - 261.5 cm (102 in);
- (b) Trailer length - 16.1 meters (53 feet);
- (c) Interior Body height - 267 cm (105 in);
- (d) Exterior Body height not to exceed - 4.1 meters (13.5 feet);
- (e) Kingpin Height - 122 cm (48 in);
- (f) Axle spacing – 1.83 meters (72 in);
- (g) Position of tridem bogie centerline ahead of the rear of trailer adjustable from 142 cm (56 in) to 325 cm (128 in) in 15 cm (6 in) increments;
- (h) Kingpin distance from front of trailer (KP) - 91 cm (36 in); and
- (i) Landing Wheel Clearance from Kingpin (LWC) - 267 cm (105 in).

3.7 Speed

The trailer with the stated payload shall be capable of being towed at 105 km/h (65 mph).

3.8 Chassis and Auxiliary Systems

3.8.1 Air Brakes

The following shall^(E) be provided:

- (a) An anti-lock braking system (ABS) configured with four sensors and two modules (4S-2M), with the intermediate axle slaved to the forward axle;
- (b) S-Cam type air brakes;
- (c) All trailer axles equipped with long stroke spring actuated, parking brake chambers. The chambers shall^(E) be Neway Life Seal;
- (d) Automatic slack adjusters;
- (e) Brake housing dust shields;
- (f) Colour coded visual brake stroke indicators. The indicators shall^(E) be Safe-T-Brake;

- (g) Colour coded glad hand couplers offset to the roadside, with dummy glad hand couplers equipped with a safety chain provided for each glad hand; and
- (h) Heated expello valves on air tanks.

3.8.2 Tires and Wheels

The following shall^(E) be provided:

- (a) Tubeless steel-belted, radial tires;
- (b) Tire size of 11R 22.5;
- (c) 8.25 X 22.5 hub pilot mounted disk wheels; and
- (d) A hubometer that reads in kilometers, mounted on the forward left-hand wheel of the trailer.

3.8.3 Suspension

The following shall^(E) be provided:

- (a) A suspension with rating of 11,340 kg (25,000 lb) each;
- (b) Shock absorbers on all axles;
- (c) Automatic height control valve(s);
- (d) Manual air suspension dump valve(s); and
- (e) Suspension travel limiters that prevent suspension over-travel while slinging or lifting the trailer for decking or sea transport such as cables or chains fastened to the suspension beam or axle and the under frame at a length approximately equal to or less than the shock absorber extended stroke. The use of shock absorbers as travel limiters is not acceptable.

3.8.4 Axles

The trailer shall^(E) be equipped with a tridem bogie axle with capacities as follows:

- (a) An axle capacity of 11,340 kg (25,000 lb) each.

3.8.5 Landing Gear

The following shall^(E) be provided:

- (a) An electrically operated inter-connected two legged, two-speed landing gear with self-leveling landing pads and a manual over-ride;
- (b) A crank handle located on the right hand side of the trailer; and
- (c) A minimum lifting capacity of 22,675 kg (50,000 lbs).

3.9 Electrical System

3.9.1 Electrical System Features

The following shall^(E) be provided:

- (a) A 12-volt negative ground electrical lighting system. The system shall^(E) utilize Grote, Truck-Lite, sealed harness complete with bullet or spade lamp connectors that are compatible with all lamps, dipped in dielectric grease;
- (b) A seven-pin trailer receptacle;
- (c) An Anti-Lock Braking System (ABS) trailer receptacle; and
- (d) Wiring protected by insulating grommets where passing through metal.

3.9.2 Lights

The following shall^(E) be provided:

- (a) Light emitting diode (LED) mid-ship combination turn signal/ clearance lamps on the left and right sides;
- (b) Five LED clearance lights installed on rear at top of body; and
- (c) Two LED stop, tail and turn signal light assemblies on each rear corner.

3.10 Trailer Construction

3.10.1 Trailer Body

The trailer construction shall^(E) be as follows:

- (a) Be commercial flat deck trailer with a front and rear wall;
- (b) Have barn-style doors on the rear wall; and
- (c) Have a retractable tarpaulin system that comprises the side walls and roof.

3.10.2 Trailer Frame

The following applies:

- (a) The frame shall be properly reinforced for towing points;
- (b) The lower rails shall^(E) be 10 gauge HSLA "J" rail welded to cross members below floor line to support wall panel. No sidewall fasteners in load area. Stainless steel truss head fasteners shall^(E) be used to attach lower aluminum rub rail;
- (c) The cross members shall^(E) be 10 cm (4 in) HSLA 60,000 lb yield I-beams on 30 cm (12 in) centers welded to "J" rail. The rear 183 cm (72 in), shall have cross-members spaced on 15 cm (6 in) centers to accommodate the initial forklift front axle load; and
- (d) The coupler assembly shall be a full width, single piece of HSLA steel with six structural steel 0.6 cm (0.25 in) channels to reinforce the approach area and front wall. In addition:
 - i. The bearing channels shall^(E) be 254 cm x 102 cm x 0.6 cm (10 in x 4 in x 0.25 in) ladder plates;
 - ii. There shall^(E) be a 0.5 cm (0.1875 in) cap plate welded over the entire kingpin cavity to eliminate coupler warping;

- iii. The exterior lower bulkhead shall^(E) be 10 gauge x 229 cm (9 in) stainless steel, completely welded to the coupler assembly, and wrapped around the radius corners to the sidewalls; and
- iv. A stainless steel welded pick-up ramping angle shall^(E) be provided.

3.10.3 Kingpin

A 5 cm (2 in) diameter kingpin shall be provided.

3.10.4 Floor

The following applies:

- (a) The floor shall be strong enough for loading cargo by forklift with a 4,540 kg (10,000 lbs) GVW and 3,630 kg (8,000 lbs) single axle load;
- (b) The floor shall^(E) be kiln dried or seasoned hardwood floor with tongue and groove or ship lapped construction, finished thickness of 3.5 cm (1.38 in);
- (c) Two rows, full length on each side of floor, integrated securing track with quantity twelve multi-position cargo hands rated at 2,268 kg (5,000 lbs) shall^(E) be provided; and
- (d) The threshold plate shall^(E) be constructed of 305 cm x 1.25 cm (12 in x 0.125 in) steel checker plate inlayed into the floor and welded across the rear.

3.10.5 Front Wall

The following shall^(E) be provided:

- (a) Exterior skin pre-painted white smooth aluminum sheet, at least 18 gauge (0.040 in), riveted to wall posts and under-structure;
- (b) Rivets spaced 5 cm (2 in) centre to centre;
- (c) Wall posts of at least 3.5 cm (1.38 in) roll formed galvanized sections on 41 cm (16 in) centers with wide flanges for lining;
- (d) Large aerodynamic radius corners utilized on the front face of the body; and
- (e) All panel joints designed to prevent the ingress of moisture.

3.10.6 Rear Wall

The following shall^(E) be provided:

- (a) Two rear full height full-width barn type doors, with a minimum vertical opening 218 cm (86 in) high;
- (b) Compression-type door hardware on each door, with provision for locking with a padlock;
- (c) Moulded rubber door seals;
- (d) Devices to secure the doors in the full open position;
- (e) A minimum of four hinges per door;

- (f) Doorframes of 11 gauge satin coat or Galvalume® steel; and
- (g) Doorsills of 0.4 cm (0.1875 in) steel.

3.10.7 Retractable Tarpaulin System

The two side walls and the roof of the trailer shall^(E) be comprised of a rolling retractable curtain system on a frame as follows:

- (a) Runs the full height and entire length of the flat deck between the front and rear walls;
- (b) Allow loading and unloading of the trailer from each side;
- (c) Have a rigid aluminum arch frame on a roller track system over which the tarpaulin is attached. The frame system shall:
 - i. Permit the curtain system to be retracted by one operator in less than one minute:
 - a. From the front to the rear of the trailer; and
 - b. From the rear to the front of the trailer;
 - ii. Be lockable at the front and rear of the trailer for security;
- (d) The tarpaulin shall:
 - i. Be constructed of at least 20-ounce pliable and crack resistant Poly-Vinyl Chloride (PVC);
 - ii. Be resistant to oils, fuels and lubricants, and degradation from solar heating in temperatures of -40 to 37°C; and
 - iii. Be dark grey in color.

3.10.8 Features

The following shall^(E) be provided:

- (a) Heavy-duty, rubber, dock bumpers 10 cm (4 in) deep at the rear corners;
- (b) Eight, interior, LED lights flush mounted to ceiling rub strips and a timer switch mounted in the right rear inside of the van body (accessible from the ground);
- (c) Two access steps with grab handles in each corner to facilitate easy access for hand unloading; and
- (d) A regulation size, under ride (ICC) bumper.

3.11 Miscellaneous Equipment

3.11.1 Equipment Location

All systems and components shall^(E) be properly located and/or protected from road hazards such as water, mud and gravel.

3.11.2 Towing/Tie-down Points

The following shall be provided:

- (a) Two rear towing points positioned and of sufficient strength to permit the loaded trailer being recovered; and

- (b) Railway tie-down points positioned and of sufficient strength to permit the securing and transportation of the loaded trailer on a railroad car.

3.11.3 Loading Ramp

The following shall be provided:

- (a) A pull out/walk up ramp that permits manual (hand) loading of the trailer via the rear doors with a minimum capacity of 900 kg (2000 lbs);
- (b) An attachment point or mechanism to secure the ramp onto a matching point on the rear deck of the truck body and liftgate to prevent the ramp from sliding off the truck when being used;
- (c) Be securely stored below the trailer deck between the frame rails;
- (d) Have a walking surface made of checkerboard steel coated with a heavy-duty non slip coating; and
- (e) Have a walking surface between 60 cm and 80 cm (24 in and 32 in) wide, and between 270 cm and 320 cm (106 in and 126 in) long inclusive.

3.11.4 Tool Storage Compartment

The following applies:

- (a) One weatherproof metal compartment shall be provided. The compartment shall^(E):
 - i. Be mounted under the floor, located on the right side of the trailer, immediately to the rear of the side door, and equipped with a drain valve, such as a flapper valve.
 - ii. Measure 51 cm (20 in) high by 61 cm (24 in) deep by 91 cm (36 in) wide;
 - iii. Swing open in the downward direction and be equipped with flush- mounted, lockable slam-action latches; and
 - iv. Have a floor that is covered with DRI decking.

3.11.5 Mud Flaps

Mud flaps shall be provided.

3.11.6 Spare Tire/Wheel Assembly and Tools

The following shall be provided:

- (a) One spare wheel assembly and carrier mounted on the right side rear of the landing gear; and
- (b) Tire changing tools including a jack.

3.11.7 Conspicuity Tape

The following applies:

- (a) Strips of reflective tape shall be applied in accordance with existing regulations;
- (b) The tape shall^(E) be 3M Scotchlite Diamond Grade 980; and
- (c) White tape shall^(E) be applied horizontally near the floor line on each side and at the rear of the body, and at the upper rear corners of the body.

3.11.8 Dangerous Goods Placard Holders

Four aluminum "Dangerous Goods" placard holders shall be supplied as follows:

- (a) One each side of the body, centered front to rear, near the bottom;
- (b) One at the rear, lower curbside corner; and
- (c) One at the front, on the left front face of the body.

3.11.9 Licence Plate Holder

A rear holder shall be provided with LED lighting.

3.11.10 Document Holder

A holder shall^(E) be provided, located on the exterior left side of the front wall.

3.12 Paint and Corrosion Protection

3.12.1 Paint Finish

The following applies:

- (a) The trailer shall be painted in accordance with the manufacturer's best production procedures rendering a durable finish at the required film thickness and a smooth appearance free from runs, sags and orange peel. The finish shall^(E) consist of:
 - i. A phosphate treatment plus primer or an E-coat system on ferrous metals, followed by two coats of paint;
 - ii. A cleaning and etching treatment plus primer followed by two coats of paint on aluminum components; and
 - iii. A clear exterior grade sealer on all wooden areas.

3.12.2 Paint Color

The following shall^(E) apply:

- (a) White on exposed exterior surfaces normally painted for the commercial trade; and
- (b) Black on chassis items such as frame and tailgate; and
- (c) Chromed, polished and mill finished surfaces need not be painted.

3.12.3 Corrosion Protection System

The following applies:

- (a) In addition to standard factory rust-proofing, aftermarket rust-proofing shall be provided. The treatment shall normally be applied within the first year of service. The treatment date shall be directed by the Technical Authority to optimize seasonal rust prevention benefits. If not demanded prior to delivery, a pre-paid certificate authorizing treatment at an aftermarket outlet shall be provided with the trailer.
- (b) Metal surfaces shall^(E) be treated with a rust preventive oily film product having the following properties:
 - i. Moisture displacing;

- ii. Creeping (capillary action);
 - iii. Low solvent content;
 - iv. Compatibility with rubbers, plastics and all other materials used in automotive construction;
 - v. Non toxic; and
 - vi. Minimal dripping.
- (c) The application shall^(E) include but not be limited to the underside of fenders and hood, enclosed and boxed-in sections, seams, mouldings, crevices, weld points, underbody and exposed exterior brackets;
- (d) A decal and warranty papers shall accompany each trailer;
- (e) Annual reminder letters shall be provided for each trailer;
- (f) The corrosion protection system shall be widely available in Canada or at least available through mobile facilities; and
- (g) The corrosion protection system shall^(E) be Krown®.

Written proof of a twelve hour ASTM B117 salt spray endurance test certification by an independent test laboratory shall be provided. Krown®, Rust Kontrol® and Rust Check® products have been accepted as certified, proof not required.

3.12.4 Corrosion Resistant Materials

The following applies:

- (a) Stainless steel, zinc plated or hot dipped galvanized fasteners shall^(E) be provided;
- (b) The design of the complete trailer shall^(E) prevent galvanic corrosion.

3.13 Miscellaneous

The following is applicable to the complete system unless otherwise specified:

3.13.1 Identification Plate

The following information shall be provided as a minimum, permanently marked and in a conspicuous and protected location:

- (a) Manufacturer, model, serial number and model year; and
- (b) The GVWR and GAWR ratings.

3.13.2 Warning and Instruction Plates

The following shall be provided:

- (a) All plates within easy view of the user and in accordance with standard commercial practice;
- (b) International symbols and/or bilingual markings; and
- (c) Instructions for engine starting and any other special procedures to be followed.

3.13.3 Lubricants and Fluids

The trailer shall^(E) be serviced with standard lubricants and fluids compatible with the delivery location and season.

3.14 Trailer Delivery Condition

The trailer shall be delivered to destination in a fully operational condition (serviced and adjusted) and both the interior and exterior shall be cleaned. If the trailer requires assembly at destination, the Contractor shall be responsible for all manpower and equipment to perform assembly. The consignee will provide the area required for assembly. For shipment verification, all items such as wheel wrenches, jacks, and all other tools, equipment and accessories, which are shipped loose with the trailer, shall be listed on the shipping certificate or to an attached packing note.

3.15 Deliverable Information

The Contractor shall provide the following Deliverable Information:

- (a) Equipment Manuals – The following manuals shall be provided:
 - i. Operator's Manual – Operator's manual shall be furnished in a bilingual format or as 2 manuals in a single binder (one English, one French). The operator's manual shall contain the following information:
 - a. Instructions for the safe operation of the trailer;
 - b. Daily operator maintenance instructions/checks (including lubrication);
 - c. Safety warnings;
 - ii. Parts Manual – The Parts Manual shall be in English. The Parts Manuals shall contain the following information:
 - a. Illustrations showing all components of the trailer including Equipment and accessories from other manufacturers that is supplied against the requirements of the contract. The illustrations shall have numbers for the itemization of the parts;
 - b. A listing for all itemized parts showing the manufacturer's part numbers (including Original Equipment Manufacturer's) of the illustration, the part name and a brief description of the item; and
 - c. Cross reference relating all part numbers (including Original Equipment Manufacturer's) to the correct figure and item number;
 - iii. Maintenance (Shop Repair) Manual - The Maintenance (Shop Repair) Manual shall be in English. The Maintenance (Shop Repair) Manuals shall contain the following information:
 - a. A trouble shooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of what steps would be required to correct a problem;
 - b. A listing of the necessary tolerances, torque levels, fluid volumes required. A section listing any special tools (including item part numbers) required shall be included; and
 - c. Information on the order of disassembly and assembly of the systems and components of the trailer;

NOTE: Manuals on CD/DVD-ROM will be acceptable. A hard copy chassis Operator's Manual shall be provided with each trailer.

- (b) Warranty Letter – A paper copy of the completed bilingual Warranty Letter shall be delivered with the trailer, and a copy of the Warranty Letter in electronic format (PDF) shall be delivered to the Technical Authority; and

TECHNICAL INFORMATION QUESTIONNAIRE

**SEMI-TRAILER, RETRACTABLE WALL, 35 TON, (70,000 LBS),
DUAL WHEEL, TRIDEM-AXLE, 53 FEET LONG**

DETACH, COMPLETE, AND RETURN

1.0 SCOPE

This Questionnaire covers technical information to be supplied by a bidder. This information is required by the Technical Authority for technical assessment of equipment offered. If a paragraph item does not apply to the Configuration, insert NA in response.

NOTE: IT IS THE BIDDERS RESPONSIBILITY TO CLARIFY OUTSTANDING TECHNICAL ISSUES, BY WRITTEN REQUEST, TO THE CONTRACTING OFFICER PRIOR TO BID SUBMISSION.

PURCHASE DESCRIPTION PARAGRAPHS

3.1 Standard Design - Complies? _____ No ____ Yes ____

Otherwise explain _____

Make/Model _____

Model Year _____

Capacity _____ kg/or _____ lbs

Has a product brochure been enclosed? _____ No ____ Yes ____

3.2 Operating Conditions - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.3 Vehicle Safety Regulations - Complies? _____ No ____ Yes ____

Otherwise explain _____

Will the NSM be provided for the complete vehicle? _____ No ____ Yes ____

3.3.1 Variant Equipment Integrator(s) Certification - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.4 Human Engineering and Safety - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.5 Payload - Complies? _____ No ____ Yes ____

Otherwise explain _____

Gross Trailer Weight Rating (GTWR) _____ kg/or _____ lbs

Gross Axle Weight Rating (GAWR) – Front _____ kg/or _____ lbs

Gross Axle Weight Rating (GAWR) – Intermediate _____ kg/or _____ lbs

Gross Axle Weight Rating (GAWR) – Rear _____ kg/or _____ lbs

3.6 Dimensions - Complies? _____ No ____ Yes ____

Otherwise explain _____

(a) Overall Width _____ cm/or _____ in

(b) Trailer Length _____ m/or _____ ft

(c) Interior Body Height _____ cm/or _____ in

(d) Exterior Body Height _____ m/or _____ ft

(e) Kingpin Height _____ cm/or _____ in

(f) Axle Spacing _____ m/or _____ ft

(g) Bogie Centerline Position _____ cm/or _____ in

Bogie Adjustment Increments _____ cm/or _____ in

(h) Kingpin Set Back Distance _____ cm/or _____ in

(i) Landing Wheel Clearance (LWC)) _____ cm/or _____ in

3.7 Speed - Complies? _____ No ____ Yes ____

Otherwise explain _____

Maximum Rated Speed _____ km/h/or _____ mph

3.8 Chassis and Auxiliary Systems

3.8.1 Air Brakes - Complies? _____ No ____ Yes ____

Otherwise explain _____

Brakes - Make/Model _____

Brakes - Size _____ cm/or _____ in

Brake Chambers - Make/Model _____

3.8.2 Tires and Wheels - Complies? _____ No ____ Yes ____

Otherwise explain _____

Tires - Make/Model _____

Tires - Size _____

Wheels - Make/Model _____

Wheels - Size _____

3.8.3 Suspension - Complies? _____ No ____ Yes ____

Otherwise explain _____

Suspension - Make/Model _____

Suspension - Capacity _____ kg/or _____ lbs

3.8.4 Axles - Complies? _____ No ____ Yes ____

Otherwise explain _____

Forward Axle - Make/Model _____

Forward Axle - Capacity _____ kg/or _____ lbs

Intermediate Axle - Make/Model _____

Intermediate Axle - Capacity _____ kg/or _____ lbs

Rear Axle - Make/Model _____

Rear Axle - Capacity _____ kg/or _____ lbs

3.8.5 Landing Gear - Complies? _____ No ____ Yes ____

Otherwise explain _____

Make/Model _____

Capacity _____ kg/or _____ lbs

3.9 Electrical System

3.9.1 Electrical System Features - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.9.2 Lights - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.10 Trailer Construction

3.10.1 Trailer Body - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.10.2 Trailer Frame - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.10.3 Kingpin - Complies? _____ No ____ Yes ____

Otherwise explain _____

Size _____ cm/or _____ in

3.10.4 Floor - Complies? _____ No ____ Yes ____

Otherwise explain _____

Thickness _____ cm/or _____ in

3.10.5 Front Wall - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.10.6 Rear Wall - Complies? _____ No ____ Yes ____

Otherwise explain _____

Rear Doors

Height _____ cm/or _____ in

Width _____ cm/or _____ in

3.10.7 Retractable Tarpaulin System - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.10.8 Features - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11 Miscellaneous Equipment

3.11.1 Equipment Location - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11.2 Towing/Tie-Down Points - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11.3 Loading Ramp - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11.4 Tool Storage Compartment - Complies? _____ No ____ Yes ____

Otherwise explain _____

Height _____ cm/or _____ in

Depth _____ cm/or _____ in

Width _____ cm/or _____ in

3.11.5 Mud Flaps - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11.6 Spare Tire/Wheel Assembly and Tools - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11.7 Conspicuity Tape - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11.8 Dangerous Goods Placard Holders - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11.9 License Plate Holder - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.11.10 Document Holder - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.12 Paint and Corrosion Protection

3.12.1 Paint Finish - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.12.2 Paint Colour - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.12.3 Corrosion Protection System - Complies? _____ No ____ Yes ____

Otherwise explain _____

Written proof of a twelve hour ASTM B117 salt spray endurance test certification by an independent test laboratory shall be provided. Krown®, Rust Kontrol® and Rust Check® products have been accepted as certified, proof not required.

Complies? _____ No ____ Yes ____

Otherwise explain _____

3.12.4 Corrosion Resistant Materials - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.13 Miscellaneous

3.13.1 Identification Plate - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.13.2 Warning and Instruction Plates - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.13.3 Lubricants and Fluids - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.14 Trailer Delivery Condition - Complies? _____ No ____ Yes ____

Otherwise explain _____

3.14.1 Deliverable Information - Complies? _____ No ____ Yes ____

Otherwise explain _____

Conformance Certificate - If the vehicle and equipment offered do not conform exactly to the requirements of this Statement of Work, any deviation shall be listed below. If there are no deviations, this fact shall be stated below.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NO DEVIATIONS

FIRM NAME _____

ADDRESS _____

NAME _____

TITLE _____

TELEPHONE NUMBER _____

FAX NUMBER _____

SIGNATURE _____

DATE _____