

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 / Camion	
Solicitation No. - N° de l'invitation W8476-133951/A	Date 2012-08-10
Client Reference No. - N° de référence du client W8476-133951	
GETS Reference No. - N° de référence de SEAG PW-\$\$HP-371-60999	
File No. - N° de dossier hp371.W8476-133951	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-09-24	
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: Modérie, Christine	Buyer Id - Id de l'acheteur hp371
Telephone No. - N° de téléphone (819) 956-3970 ()	FAX No. - N° de FAX (819) 953-2953
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

The Department of National Defence has a requirement to purchase One (1) Line Maintenance Truck and related items, (including familiarization instruction/training), in accordance with the Purchase Description - Line Construction Vehicle, dated July 2012, and as described at Annex A - Pricing.

The requirement includes an option to purchase up to two (2) Line Maintenance trucks and related items to be exercised within twelve (12) months from the effective date of the contract.

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 (2012-07-11) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

- **Exceptions** to Standard Instructions Goods or Services - Competitive Requirements

Bids Validity Period

Subsection **05.4 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 (1 hard copy);

Section II: Financial Bid (1 hard copy);

Section III: Certifications and Additional Information (1 hard copy).

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

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders 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

- **Annex "C"** - Technical Information Questionnaire.

A check mark should be added in the appropriate box of the Technical Information Questionnaire. Bidders should provide additional explanation to support their technical compliance.

In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

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

1. Bidders must submit their bid in accordance with the Basis of Payment specified **Part 6 - RESULTING CONTRACT CLAUSES, at Clause 6.1 Basis of Payment.**
2. Prices should appear in “Annexe “A” - Pricing.

1.3. Exchange Rate Fluctuation

1. Unless otherwise specified in the bid solicitation, bids must be in Canadian currency.
2. Bidders may request Canada to assume the risk for exchange rate fluctuation. This request must be specifically made at time of bidding.
3. The foreign currency component is defined as the element of the price that will be directly affected by exchange rate fluctuations. It could include the net price FOB foreign manufacturer's plant, costs associated with applicable duty, excise tax, 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.
4. The foreign value of the foreign currency component of the bid or negotiated price must be provided before contract award. Form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it is recommended to indicate on the above form the foreign currency component associated with each milestone event.
5. All bids are evaluated in Canadian currency. Therefore, for evaluation purposes, the noon rate quoted by the Bank of Canada as being in effect on date of bid closing, or such other date as may be specified in the bid solicitation, will be applied as the initial conversion

factor for the specified currency. (Column 3 of the above form will be completed by the Contracting Authority.)

6. Rates proposed by bidders will not be accepted for the purposes of this exchange rate adjustment provision.
7. If there are two (2) identical bids, and provided that the bid selected would still be considered the most advantageous to Canada, preference will be given to the Bidder who assumes all or part of the exchange rate adjustment risk over a bidder who does not assume any of this risk. Furthermore, preference will be given to the Bidder who assumes all of the exchange rate adjustment risk over a bidder who assumes only part of this risk.
8. Canada will pay the exchange rate adjustment amount in Canadian currency using the prevailing noon rate on the date of payment by Canada or, as applicable, in accordance with clause C3015C, C3020C, C3025C, or C3030C.

4. **Section III: Certifications and Additional Information**

1. **Certifications**

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

2. **Additional Information**

Canada requests that bidders submit the following information:

2.1 **Delivery**

Firm Quantity

While delivery of the truck is requested by December 31, 2012, the best delivery that can be offered is as follows:

- **Item 001** – One (1) Line Maintenance Truck and related items will be delivered within _____ calendar days from the effective date of the contract.

Optional Quantity

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

- **Item 002** – Up to two (2) Line Maintenance Trucks and related items will be delivered within _____ calendar days after an option is exercised.

2.2 **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.

The manufacturer's standard warranty (_____ **months**)

2.3 Spare Part 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 **DND**, or its authorized agents, for a period of _____ **years**.

2.4 Supplier's Representative

The Contractor is to provide a name and telephone number of a contact point within his plant, for follow-up inquiries by PWGSC or DND.

General enquiries

Name: _____

Telephone No. _____

Facsimile No. _____

E-mail _____

Delivery follow-up

Name: _____

Telephone No. _____

Facsimile No. _____

E-mail _____

2.5 After Sales Service

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Buyer ID - Id de l'acheteur

hp371

Client Ref. No. - N° de réf. du client

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CCC No./N° CCC - FMS No/ N° VME

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:

Name: _____

Address _____

Telephone No. _____

Facsimile No. _____

E-mail _____

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**

2.2 Mandatory Technical Evaluation Criteria

Bids must be completed in full and provide all technical information requested in the bid solicitation, the Technical Information Questionnaire and the Purchase Description by the bid closing date and time to enable a full and complete evaluation.

2.3 Bidders must submit with their bid the completed Technical Information Questionnaire(s) - Annex "C".

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.

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

4. Basis of Selection

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 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. Code of Conduct Certifications - Consent to a Criminal Record Verification

1.1 Bidders must submit with their bid, by the bid solicitation closing date:

- (a) a complete list of names of all individuals who are currently directors of the Bidder;
- (b) a properly completed and signed form Consent to a Criminal Record Verification (PWGSC-TPSGC 229), for each individual named in the list.

For information purposes an electronic copy of the Consent to a Criminal Record Verification can be found at:

[Http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/229-eng.html](http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/229-eng.html)

2. 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.

2.1 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.

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

The Contractor must deliver one (1) Line Maintenance truck and related items, including familiarization instruction/training, in accordance with the Purchase Description for Line Construction Vehicle, dated July 2012 and at Annex A - Pricing.

An option is included to purchase up to two (2) vehicles and related items to be exercised within twelve (12) months from the effective date of the contract.

2.1 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described herein under the same conditions and at the prices and or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The option may be exercised at the discretion of Canada in whole or in part or in more than one occasion, up to the maximum quantity identified herein.

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

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

2.2 Optional Extended Warranty Period

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** (2012-07-16) **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 Date

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

Firm Quantity

Item 001 - One (1) Line Maintenance truck and related items must be delivered within **to be inserted by PWGSC** weeks/calendar days from the effective date of the contract.

Optional Quantity

Item 002 - If the option is exercised, up to two (2) Line Maintenance trucks and related items must be delivered within **to be inserted by PWGSC** weeks/calendar days after an option is exercised.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Christine Modérie
Supply Specialist
Public Works and Government Services Canada - Acquisitions Branch
LEFT Directorate, HP Division,
7A2, Place du Portage, Phase III
11 Laurier Street
Gatineau Quebec K1A 0S5
Telephone: 819 956-3970 / Facsimile: 819 953-2953
E-mail christine.moderie@pwgsc.gc.ca

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

5.2 Procurement Authority

The Procurement Authority for the Contract is:

To be inserted by PWGSC

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

5.3 Technical Authority:

The Technical Authority for the Contract is:

To be inserted by PWGSC

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

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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

Telephone No. _____

Facsimile No. _____

E-mail address: _____

Delivery follow-up

Name: To be inserted by PWGSC

Telephone No. _____

Facsimile No. _____

E-mail address: _____

5.5 After Sales Service

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

Name: to be inserted by PWGSC

Address: _____

Telephone Number: _____

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

6. Payment

6.1 Basis of Payment

6.1.1 Firm Quantity

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm 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.

6.1.2 Optional Quantity

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm prices, in Canadian dollars, FCA Free Carrier, at Contractor's Canadian facility or the Contractor's Canadian distribution point, Incoterms 2000 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

SACC Reference	Title	Date
C2000C	Taxes - Foreign-based Contractor	30/11/07
C6000C	Limitation of Price	16/05/11
H1000C	Single Payment	12/05/08
H1001C	Multiple Payments	12/05/08

6.3 Exchange Rate/Payment on Delivery

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

7. Invoicing

7.1 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified on the invoice is completed.

2. Invoices must be distributed as follows:

(a) The original must be forwarded to the Procurement Authority to the following address for certification and payment.

National Defence Headquarters
Mgen George R. Parkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
Attention: DLP _____

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

(c) One (1) copy must be forwarded to the consignee.

7.2 Holdback

Canada will apply a ten (10) percent holdback on the total price of each vehicle/equipment on any due payment of the said vehicle/equipment.

For item 001 release of the holdback (10%) is conditional upon receipt and certified acceptance by DND of the said vehicle/equipment and related items such as familiarization instruction/training, the vehicle manuals, data summary, photographs, preventive maintenance replacement parts kit list, warranty letter(s), approved manuals and initial parts kits.

For item 002 release of the holdback (10%) is conditional upon receipt and certified acceptance by DND of the said vehicle/equipment and related items such as the vehicle manuals, data summary, photographs, preventive maintenance replacement parts kit list, warranty letter(s), approved manuals and initial parts kits.

Goods and Services Tax or Harmonized Sales Tax (GST/HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no GST/HST payable as it was claimed and paid under the previous invoice.

- (a) The original invoice for the holdback must be forwarded to the Procurement Authority identified under the section entitled "Authorities" of the Contract.
- (b) One (1) copy must be forwarded to the 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 (2012-07-16) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Pricing;
- (d) Annex "B" - Purchase Description
- (e) Annex "C" - Technical Information Questionnaire
- (f) the Contractor's bid dated _____

11. SACC Manual Clauses

A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2012-07-16
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	2012-07-16
D5510C	Quality Assurance Authority (DND) - Canadian-based Contractor	2012-07-16
D5515C	Quality Assurance Authority (DND) - Foreign-based and United States Contractor	2010-01-11

D5540C	ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)	2010-08-16
D5604C	Release Documents - Foreign based Contractor	2008-12-12
D5605C	Release Documents - US based Contractors	2010-01-11
D5606C	Release Documents - Canadian-based Contractors	2012-07-16
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 Purchase Description/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 (Firm Quantity)

1. The Contractor must ship the goods prepaid DDP - Delivered Duty Paid Borden, Ontario as specified below. Unless otherwise directed, delivery must be made by the most economical means. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and taxes.
2. The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the person identified below. The consignee may refuse shipments when prior arrangements have not been made.

Item 001 - The contact person at destination is: **to be inserted by PWGSC** . The goods must be delivered to **to be inserted by PWGSC** .

15. Shipping Instructions (Optional Quantity)

1. Delivery will be FCA Free Carrier at the Contractor's Canadian facilities or the 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.

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 3.

(The DND Inbound Logistics Coordination Center will be identified if the option is exercised.)

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 material safety data sheet.

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.

5. The Contractor must not ship the goods before receiving shipping instructions from the DND Inbound Logistics contact.
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.
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. Release Documents - Distribution

The Contractor must prepare the release documents and distribute them as follows:

- (a) Copy 1: mail to consignee marked: "Attention: Receipts Officer";
- (b) Copies 2 and 3: with shipment (in a waterproof envelope) to the consignee;
- (c) Copy 4: to the Contracting Authority;
- (d) Copy 5: to:

National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2

Attention: DLP _____

- (e) Copy 6: to the Quality Assurance Representative;
- (f) Copy 7: to the Contractor;
- (g) Copy 8: all non-Canadian Contractors to:

DQA/Contract Administration
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
E-mail: ContractAdmin.DQA@forces.gc.ca.

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

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

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. (2011 model-year or later).

22. Design Changes

The "Design Change, Design Deviation and Waiver Procedure" as defined in National Defence Standard D-02-006-008/SG-0001 must apply.

23. 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.

24. 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.

25. 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 Line Construction Vehicule (Firm Quantity)

The Contractor must deliver the vehicle/equipment including the warranty letter, operator's manual, parts manual, maintenance (shop repair) manual, equipment manuals, manuals on CD/DVD-ROM, sample manuals, data summary, photographs, recommended spare parts list, list of special tools, line setting ticket, maintenance personnel training and operator training in accordance with the attached Annex "B" - Purchase Description - Line Construction Vehicle.

Firm unit price of \$_____ per vehicle/equipment Delivered Duty Paid at CFB Borden, Ontario, in accordance with Part 6, paragraph 6.1.1. Basis of Payment - **Firm Quantity**

Manufacturer: _____ **Model:** _____

Item 002 – Item 001 Line Construction Vehicule (Optional Quantity)

If this option is exercised, the Contractor must deliver up to two (2) Line Maintenance Trucks and related items such as (vehicle manuals, CD of all manuals, data summary, photographs, preventive maintenance replacement parts kit list and Special tools list, warranty letter(s), approved manuals and Initial Parts Kits including familiarization instruction/training , in accordance with the attached Purchase Description for Line Construction Vehicle, dated July 2012.

Manufacturer: _____ **Model:** _____

Firm lot price of \$_____ per vehicle/equipment, FCA Free Carrier at Contractor's Canadian facility or Contractor's Canadian distribution point as detailed in accordance with Part 6, paragraph 6.1.2. Basis of Payment - **Optional Quantity**

Item 003 - Familiarization Instruction/Training (Option)

If this option is exercised, the Contractor must provide up to two (2) familiarization instruction/training, in accordance with the attached Purchase Description for Line Construction Vehicle, dated July 2012.

Firm unit price of \$_____ Goods and Services Tax or the Harmonized Sales Tax extra.

Solicitation No. - N° de l'invitation

W8476-133951/A

Amd. No. - N° de la modif.

File No. - N° du dossier

hp371W8476-133951

Buyer ID - Id de l'acheteur

hp371

CCC No./N° CCC - FMS No/ N° VME

W8476-133951

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 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 004 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 trailer 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 - **6.1.2 Optional Quantity**

ANNEX "B"
PURCHASE DESCRIPTION
FOR
LINE CONSTRUCTION VEHICLE
50ft, 6x4

1. SCOPE

1.1 Scope - This Purchase Description describes the requirements for line maintenance type trucks with a rear, curb-side, corner mounted Digger Derrick unit. The vehicle will be used in domestic and expeditionary operations for aerial, overhead and underground telecommunications cable installation and maintenance, post/pole hole digging, setting, and removal.

1.2 Instructions - The following instructions **shall** be applied to this Purchase Description:

- (a) Requirements, which are identified by the word "**shall**", are mandatory. Deviations will not be permitted;
- (b) Requirements identified by "**shall**^(B)" 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**^(B)", or "will" are not used, the information provided is for guidance only;
- (e) In this document "provided" **shall** mean "provided and installed"; and
- (f) Where technical certification is required, a copy of the certification or an acceptable proof of compliance **shall** be provided upon request;
- (g) Metric measurements **shall** be used to define the requirement. Other measurements are for reference only and may not be exact conversions; and
- (h) Dimensions stated as nominal **shall** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

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



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

- (a) "Technical Authority" - The government official responsible for technical content of this requirement;
- (b) "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; and
- (d) "Road legal" - are the characteristics that a vehicle requires so that it can be legally operated on all Canadian highways and secondary roads, not having special restrictions, without requiring overweight or dimensional permits.
- (e) "Vehicle" - refers to the cab, chassis, and parts provided with the frame before the addition of the aerial;
- (f) "Vehicle/equipment" - refers to the completely manufactured lift platform truck with aerial device, and related parts and equipment installed;

2. APPLICABLE DOCUMENTS

2.1 Government Furnished Documents - Not applicable. (Government Furnished Documents)

2.2 Other Publications - The following documents form part of this purchase description. Web sites for the organization are given when available. Effective documents are those in effect on date of manufacture. Sources are as shown:

Canadian Motor Vehicle Safety Standards (CMVSS)
Transport Canada,
Road Vehicle and Motor Vehicle Regulation,
330 Sparks Street,
Ottawa, Ontario K1A 0N5
<http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm>

CAN/CSA C225-10 Vehicle Mounted Aerial Devices
CSA W47.1-09 Certification of Companies for Fusion Welding Steels
CSA W59-03 (R2008) Welded Steel Construction (Metal Arc Welding)
CSA W59.2-M1991 (R2008) Welded Aluminum Construction
Canadian Standards Association
5060 Spectrum Way, Suite 100
Mississauga, Ontario, L4W 5N6
<http://www.csa.ca/language/default.asp?thisUrl=%2FDefault%2Easp>

ANSI/ASSE A10.31-2006 Safety Requirements, Definitions and Specifications for Digger Derricks
American National Standards Institute
1819 L Street, NW, 6th Floor

Washington, DC, 20036
<http://www.ansi.org/>

Occupational Health and Safety Act (OHSA), 1990
Ontario Ministry of Labour,
400 University Ave.,
Toronto, Ontario M7A 1T7
<http://www.labour.gov.on.ca/>

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

Yearbook
Tire and Rim Association Inc.,
3200 West Market St.,
Akron, Ohio, 44321
<http://www.us-tra.org/traHome.htm>

FED STD 595C - Colors Used in Government Procurement
GSA - Specification Section
470 L'Enfant Plaza
Suite 8100
Washington, DC, 20407
<http://apps.fss.gsa.gov/pub/fedspecs/>

3. REQUIREMENTS

3.1 Standard Design - The vehicle/equipment **shall**:

- (a) Be the manufacturer's latest model having demonstrated industry acceptability by having been manufactured and sold commercially for at least 2 years, or, **shall** be manufactured by a company that has at least 5 years experience in design and manufacturing of a comparable type of equipment of equivalent or greater complexity;
- (b) Have engineering certification available, upon demand, for this application from the original manufacturers of major equipment systems and assemblies;
- (c) Conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and pollution in effect in Canada at the time of manufacture; and
- (d) Have system and component capacities not greater than their published ratings (i.e. product or component brochures) or accompanied by proof of compliance.
- (e) Include all components, equipment, and accessories normally supplied for this application, although they may not be specifically described in this purchase description.

3.1.1 Design Principles

- (a) Standard Components - Commercially available standard parts complying with commercial standards **shall** be used wherever possible;

- (b) Interchangeability - All components, assemblies, and sub-assemblies used in the construction **shall** be designed and manufactured to dimensional tolerances, which will permit interchangeability and facilitate replacement of parts;
- (c) Spare Parts - The manufacturer **shall** select components readily available for a minimum period of fifteen (15) years from the date of manufacture;
- (d) Maintainability - All maintenance and repair tasks, especially routine operator maintenance, **shall** be easy to perform with a minimum of special tools and skills; and
- (e) Modularity - Major assemblies **shall** be easily disconnected and removed from the vehicle without the necessity for extensive disassembly of components.

3.2 Operating Conditions

3.2.1 Weather - The vehicle/equipment **shall** operate under the extremes of weather conditions found in Canada in temperatures ranging from -40 to 37° C (-40 to 99° F).

3.2.2 Terrain - The vehicle/equipment **shall** be capable of being operated on highways, secondary roads, gravel roads, and off-road (e.g. construction sites, open fields, and dirt tracks).

3.3 Safety

3.3.1 Vehicle Safety Regulations - The vehicle **shall** meet the provisions of the Canada Motor Vehicle Safety Act in effect on the date of manufacture. The vehicle **shall** carry the National Safety Mark.

3.3.2 Equipment Integrator(s) Certification - The Contractor **shall** submit upon request, variant equipment integrator NSM certification number with Transport Canada as a Final Stage Manufacturer for the applicable equipment.

3.3.3 Aerial device safety - The installation of the rear, curb-side, corner mounted aerial device and digger derrick **shall** comply with the most recent requirements of CSA C225-10 and ANSI/ASSE A10.31-2006 and relevant sections of the OHSA. All welded fabricated items; assemblies and sub-assemblies **shall** conform to the latest issue of CSA W47.1 and W59.

3.3.4 Noise Levels - The noise level **shall not** exceed:

- (a) 85 decibels (dB(A)) in the cab when measured in accordance with SAE Recommended Practice J336; and
- (b) 86 decibels (dB(A)) at the vehicle platform when measured in accordance with SAE Recommended Practice J1096.

3.3.5 Human Engineering and Safety - The vehicle/equipment, all systems and components **shall**:

- (a) Be safe and easy to use by a 95th percentile male or 5th percentile female under all operating conditions as published in SAE Recommended Practice J833;
- (b) Have all entry and exit points equipped with handles and steps suitably

positioned, to accommodate a 95th percentile male or a 5th percentile female under all operating conditions; and

- (c) Be equipped, where required for operator safety, with safety features such as warning and instruction plates, non-slip walking surfaces and heat shields.

3.4 Vehicle Performance - The vehicle with all specified equipment installed and fully loaded **shall** have the following performance:

- (a) Have a maximum forward speed of at least 100 km/h and a cruising speed of 90 km/h;
- (b) Have a gradeability of at least 25 percent while at 5 km/h; and
- (c) Have a gradeability of at least 1.2 percent at 90 km/h.
- (d) The Contractor **shall** provide a computer generated vehicle performance prediction analysis for a fully loaded vehicle which **shall** be performed in conformance with SAE J2188, using proposed equipment engine and transmission.

3.4.1 Weights and Dimensions - The vehicle with all equipment installed **shall** be Road Legal.

- (a) Gross Vehicle Weight Rating (GVWR) - The vehicle **shall** have a gross vehicle weight not exceeding the GVWR, as published in the manufacturer's literature and engineering data;
- (b) Gross Axle Weight Rating (GAWR) - The vehicle **shall** have a total load on each axle that is not exceeding the GAWR for that axle.
- (c) Centre of Gravity - The centre of gravity of the vehicle/equipment under all loading conditions and driving positions **shall** be in front of the rear axle and **shall** be within the chassis manufacturer's allowable conditions.
- (d) The Contractor **shall** provide the following chassis information:
 - i Wheelbase (WB): Front axle centerline to rear axle centreline
 - ii Cab-to-axle (CA): End of cab to rear axle centreline
 - iii Overhang (OH): Rear axle centreline to end of frame
 - iv Overall Length (OL): Length of body
 - v Bumper-to-axle (BA): Front of vehicle to front axle centreline (also known as front overhang)
- (e) Component and vehicular load and capacity ratings **shall** not be raised above normal commercial levels in order to meet the requirements of this purchase description.

3.4.2 Vehicle Delivery Condition - The vehicle/equipment **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 equipment, **shall** be listed on the shipping certificate or to an attached packing note.

3.5 Cab, Chassis and Body

3.5.1 Cab - The vehicle cab **shall** be a commercially manufactured conventional type three-person cab. The cab **shall** include:

- (a) A minimum of two doors for entry and egress. Cab doors **shall** be equipped with locks, keyed alike, capable of being opened independently from the exterior and interior of the cab;
- (b) Hand grips, steps, and other features required for the safe entry and egress for the range of fifth percentile female to ninety-fifth percentile male;
- (c) The manufacturer's standard lining or insulation sufficient to limit the interior sound levels to a maximum of 85 dB(A) when measured in accordance with SAE J336;
- (d) Fully adjustable independent air-suspension driver seat with non-static heavy-duty upholstery;
- (e) Mats on the cab floor and toe-board;
- (f) High output temperature controlled fresh air heater and defroster adequate for the operating conditions specified;
- (g) Air-Conditioning equipped with all components and controls required for regulation of the cab interior temperature. The air conditioning system **shall** not use ozone-depleting refrigerants (chlorofluorocarbons (CFCs)) and **shall**^(E) use hydrofluorocarbons (HFCs);
- (h) Interior sun visors;
- (i) Two rectangular, external rear view mirrors with replaceable heads and glass, located on each side of the vehicle which provide the clearest possible undistorted view to the rear from the driver's position. The mirrors **shall** be constructed such that the mirror glass is shock mounted and sealed against the ingress of moisture; The mirrors **shall**^(E) be equipped with lights, defroster elements, a convex portion on each side, and be capable of folding rearward against the vehicle. Power mirrors are desirable;

NOTES: The following dimensions are provided as guidance:

- i Two (2) external rear view mirrors - 40.6 cm by 15.2 cm
- ii Two (2) convex mirrors - 10 cm diameter
- (j) Intermittent windshield wipers capable of clearing the windshield during driving operations, and where the wiper blades **do not** travel from a vertical centre windshield position to a horizontal position near the roof line;
- (k) Retractable shoulder/lap belt assemblies for the driver and the outside passenger, and at least a lap belt for the centre passenger;

- (l) AM/FM radio and CD player;
- (m) Tinted glass;
- (n) A standard electric horn;
- (o) An air horn;
- (p) Halogen headlights; and
- (q) Interior and instrument panel lights to provide adequate lighting for nighttime operations.

3.5.2 **Frame** - The frame **shall** be strong at the towing and mounting points and suitable for the application. The frame **shall** have a Section Modulus of 15.9 and a resisting bending moment using 110,000 psi High Strength Steel.

- (a) The frame **shall**^(B) have a minimum of 61 cm (24 inches) integral frame extension. A stationary grill **shall** be provided.

3.5.3 **Chassis** - The chassis **shall** be a heavy duty type as recommended by the vehicle manufacturer to meet the operating conditions specified and the gross laden weight with the aerial device in its maximum operating range and **shall** be kept clear of vehicle accessories, behind the cab, for utility body mounting.

- (a) **Recovery** - The vehicle **shall** be designed so that it can be towed, while loaded to capacity, from the front or rear (not suspended) of the vehicle by commercial tow trucks.
- (b) **Frame Extensions** - The following requirements apply if frame extensions are required during the installation of the body:
 - i The extension **shall** conform to the guidelines presented in the Cab and Chassis OEM Vocational Reference Guide;
 - ii Additional frame rail material used for modifying the frame rails **shall**^(B) be of the same material specifications as the OEM frame;
 - iii Have an engineering safety factor of at least four, including the affected region of the original frame;
 - iv All extensions **shall** be free of cracks, notches, and imperfections;
 - v All holes **shall**^(B) be drilled. Flame cut holes **shall** not be employed;
 - vi Holes in the frame rails **shall**^(B) not be elongated or slotted;
 - vii Spring type locking washers **shall**^(B) not be used on structural members;
 - viii All joints in the frame rails **shall**^(B) be well clear of highly stressed regions of the frame; and
 - ix If the wheelbase of the cab-chassis is altered, the alteration **shall** include all cab-chassis OEM components. The frame **shall** not

be altered between the front and rear axles.

3.5.4 **Body** - The body **shall** be a fibreglass line body type designed for mounting on a truck chassis and be the manufacturer's standard or standard option proven suitable in service as a maintenance or utility body. The body **shall**^(B) include:

- (a) An integral floor and rear platform extension constructed of a minimum thickness 4.8mm (3/16 inch) checker plate including wheel wells, deck entrance steps, and on the tops of fibreglass compartments;
- (b) A combination rear deck area and full width rear bumper, desired to be made of "Grip Strut" material. The bumper **shall** have provision to attach a trailer;
- (c) Weatherproof compartments the full length of the utility body;
- (d) Aluminum drip mouldings **shall** be installed over all doors and access panels;
- (e) Seams between aluminium and body **shall**^(B) be sealed with 3M joint sealer to prevent water from getting between the plate and the FRP;
- (f) Removable wheel wells with suitable clearance for tire chains in accordance with SAE Information Report J683;
- (g) A foreman's master door lock system;
- (h) A "U" channel complete with wood manufactured material stops at rear deck entrance;
- (i) A mounting bracket which **shall**^(B) be incorporated into the body for the storage of four wheel chocks. The bracket **shall** be positioned for easy access. It is preferred that the storage location is on the driver side of the vehicle. Four wheel chocks **shall** be supplied. The wheel chocks **shall**^(B) be made from a fuel resistant elastomeric compound;
- (j) Include assist grab handles at all deck entrances;
- (k) Include aluminum rock guards to protect exposed areas on the front corners; and
- (l) Include at least six (6) 907 kg recessed tie-down loops on deck, evenly spaced, for cargo lashing.

3.5.4.1 **Side Compartments** - The body **shall**^(B) be equipped with the following:

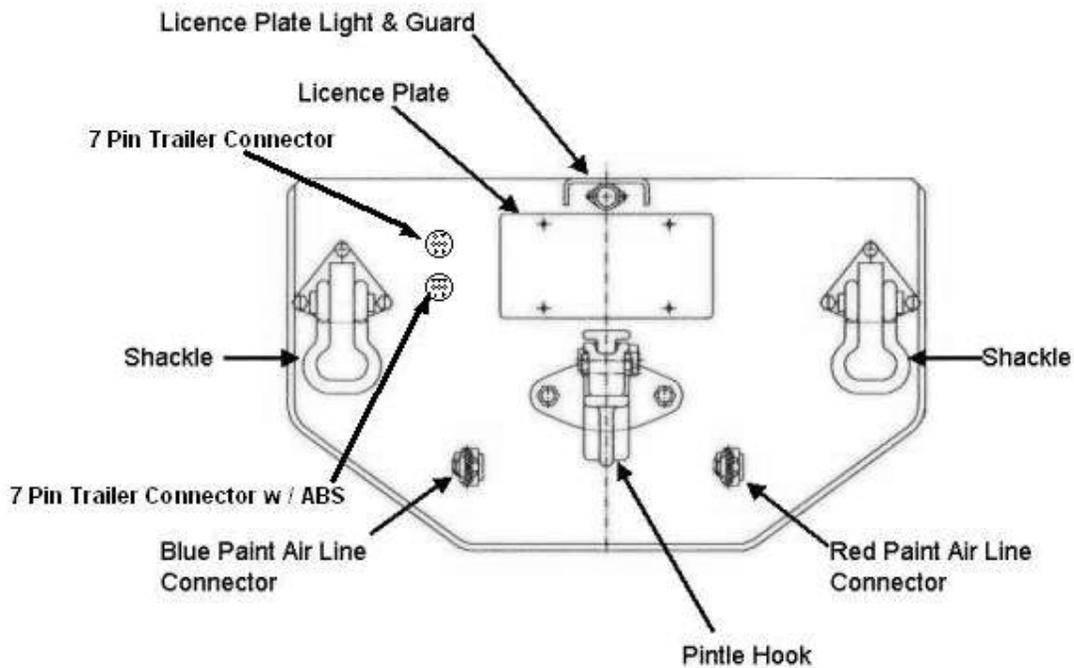
- (a) Four front vertical compartments, two on each side, with the following nominal dimensions as guidance:
 - i Height - Approx 127 centimetres (50 inches);
 - ii Width - Approx 45.7 centimetres (18 inches);
 - iii Depth - Approx 38 centimetres (15 inches);

- (b) Two rear vertical compartments, one on each side, with the following nominal dimensions as guidance:
- i Height - Approx 127 centimetres (50 inches);
 - ii Width - Approx 914 centimetres (36 inches);
 - iii Depth - Approx 38 centimetres (15 inches);
- (c) Two horizontal compartments, one on each side, with the following nominal dimensions as guidance:
- i Height - Approx 61 centimetres (24 inches);
 - ii Width - Approx 152.4 centimetres (60 inches);
 - iii Depth - Approx 38 centimetres (15 inches);
- (d) All compartments **shall**^(E) be equipped with:
- i Doors with a minimum two point latch;
 - ii Stainless steel or cadmium plated hinges, pins, and hardware;
 - iii Retaining chains, equipped with a quick release link, to hold the horizontal compartment doors open at 90 degrees;
 - iv Spring door holders to hold the vertical compartment doors at 90 degrees;
 - v Bulb type perimeter door seals installed on the door or doorframe ("Peel and stick" style door seals **shall** not be acceptable);
 - vi Large, recessed, D-type or T-type handles;
 - vii A "foreman's lock", enabling the doors on each side of the truck and the tool cabinet doors to be secured with padlocks at a rearward location;
 - viii Drawers with lock in/out latches;
 - ix Removable shelves capable of supporting a minimum of 45 kg (100 lbs) load;
 - x Shelves/bottom lined with Levitt-Safety or Dri-Dek Antislip matting to prevent shifting of tools while in motion; and
 - xi Maximum load capacity for all drawers and shelves clearly marked on the inside of the compartment doors.

3.5.4.2 **Trailer Capability** - The following **shall** be provided for the capability to attach a trailer:

- (a) Rear pintle hook complete with chassis frame reinforcement capable of towing the maximum allowed Gross Trailer Weight for the vehicle provided. The pintle hook **shall**^(E) be Holland Hitch model PH-T-60-AOL-8.
- (b) Two (2) safety chain rings **shall** be mounted onto the rear of the vehicle such that the horizontal centre eye is between 685 mm and 737 mm (27 to 29 inches) above ground level.
- (c) In case a plate is required for pintle hook installation, the plate **shall** be fabricated using strong steel. Stress analysis **shall** be conducted to confirm the ability of the plate to withstand the maximum towed load capability of the vehicle. The result of the analysis **shall** be forwarded to the Technical Authority for approval. A line drawing for the plate design **shall** be provided detailing the location of the following components:
 - i The licence plate;
 - ii Licence plate light and guard;
 - iii Two shackles;
 - iv The airline connectors;
 - v Seven-pin trailer connector; and
 - vi Seven-pin trailer connector with ABS

NOTE: An example of a pintle hook set up describe in 3.5.3.2 is provided below.



Licence Plate Light & Guard	Feu et cache de plaque d'immatriculation
Licence Plate	Plaque d'immatriculation
7 Pin Trailer Connector	Prise de remorque à 7 broches
Shackle	Maillon d'attache
7 Pin Trailer Connector w / ABS	Prise de remorque à 7 broches avec ABS
Blue Paint Air Line Connector	Raccord de système de freinage pneumatique peint en bleu
Shackle	Maillon d'attache
Red Paint Air Line Connector	Raccord de système de freinage pneumatique peint en rouge
Pintle Hook	Crochet d'attelage

3.6 Engine - The engine **shall** be capable of operating on diesel fuel to the CAN/CGSB Standard 3.517-2007. The design of the engine system **shall** include:

- (a) A control system suitable for this application;
- (b) A horsepower sufficient enough to meet all performance requirements; and
- (c) Engine manufacturer's certification **shall** be available upon request.

3.6.1 Engine Components - The engine **shall** include:

- (a) A severe service air cleaner protected from the ingress of rain and snow;
- (b) A full flow oil filter with a spin-on or replaceable type element;
- (c) A governor to limit engine speed to the operating range recommended by the engine manufacturer;
- (d) Engine coolant and a heavy duty cooling system recommended by the OEM that is capable of operating within the conditions stated in section 3.2;
- (e) A thermostatically controlled ON/OFF type fan clutch unless the engine is intercooled;
- (f) A fan shroud;
- (g) A fast-idle device to automatically set engine idle speed at a predetermined rpm when activated for aerial device operation;

- (h) An electronic adjusting hand throttle;
- (i) An automatic shutdown system for low oil pressure and high water temperature with a driver controlled override. Indicator lights **shall**^(B) be located at each control station to indicate a shut down due to low oil pressure or high water temperature; and
- (j) Any measures other than those already required by this purchase description that are necessary to adhere to the engine manufacturer's recommendations for aerial device and vehicle operation under cold weather conditions.

3.6.2 **Fuel Tank(s)** - The design of the fuel tank(s) **shall**:

- (a) Include a right or left hand mounted step tank with a minimum capacity of 189 litres (50 US Gallons);
- (b) Include primary and secondary fuel filters;
- (c) Include a non-spill type air vent with filler cap marked "Diesel Fuel Only";
- (d) Include sufficiently protected drain valve(s);
- (e) Include a switch for selection of the fuel tank and gauge, if more than one fuel tank is provided; and
- (f) Be at least half full when delivered to the destination.

3.6.3 **Primary Cold Weather Aids** - The engine **shall** be equipped with cold weather aids to enable the engine (operating with winter grade fuels/oils) to be started at soak temperatures down to -40° Celsius (-40° Fahrenheit), with an external power source. The following **shall**^(B) be included:

- (a) A water separator/fuel filter incorporating an electrical heating system to preheat diesel fuel prior to starting. The heater **shall** be thermostatically controlled.
- (b) An in-line fuel heater. The heater **shall**^(B) be thermostatically controlled to prevent fuel temperature from rising above approximately 43° Celsius (110° Fahrenheit) and be a heat exchanger type connected to the cooling system; and
- (c) A low temperature starting aid. The engine **shall**^(B) have glow plugs and / or intake air preheat system.

3.6.4 **Auxiliary Cold Weather Aids** - The engine **shall** be equipped with the following auxiliary cold weather aids:

- (a) 110-volt engine heater(s) with a capacity as recommended by the engine manufacturer or conforming to SAE Information Sheet J1310;
- (b) 110-volt battery heater(s) having wattage matched to battery size to prevent battery damage due to overheating; and
- (c) Housing the battery in an insulated battery box or heated cab.

3.6.5 **Exhaust System** - The exhaust system **shall**:

- (a) Be non-intrusive to the vehicle;
- (b) Have components routed under the frame; and
- (c) Include a vertical exhaust pipe equipped with heat shield. The stack **shall** clear the body roof line and be fitted with an exhaust elbow.

3.7 Power Train - The power train consists of components transmitting power from engine output shaft to driven wheels. The power train **shall**:

- (a) Have components with a torque capacity exceeding the maximum applied torque;
- (b) The wheel drive system **shall** provide a 6 X 4 capability by delivering power equally to all wheels; and
- (c) Include driver controlled full locking rear differential.

3.7.1 Transmission: The transmission **shall**:

- (a) Be fully automatic and electronically controlled;
- (b) Be compatible with the diesel engine provided;
- (c) Have a minimum of five (5) forward speeds and one reverse speed;
- (d) Include a hydraulic torque converter with automatic lock-up clutch in at least the top two transmission gear ratios;
- (e) Include an oil cooler of a capacity approved by the transmission manufacturer for the service intended;
- (f) Include an oil filter;
- (g) Be equipped with auto neutral for fast idle. The high idle control **shall** be connected so as not to allow the high idle to engage when the transmission is in gear and the parking brake is applied; and
- (h) Include a safety device to ensure that the engine can only be started in the neutral or park position.

3.7.2 Power Take-Off (PTO) - The PTO **shall** be:

- (a) A single speed SAE heavy-duty roller or ball bearing type compatible with the transmission;
- (b) Approved for this operation;
- (c) Delivered complete with a converter PTO neutral lock-up; and
- (d) Include a hydraulic "Hot Shift" shifting mechanism connected through the transmission Electronic Control Unit.

3.8 Braking system - The vehicle **shall** be equipped with full air actuated ABS service brakes, capable of successfully completing the performance requirements specified in CMVSS. The brakes **shall**^(E) include:

- (a) A low air pressure indicator controlling a buzzer audible to the driver and a red warning light on the instrument panel. The warning devices

shall^(B) operate only when the ignition switch is in the "ON" position.

- (b) An air compressor of at least 5 litres per second capacity complete with an air cleaner. The compressor **shall**^(B) be pressure lubricated and liquid cooled from the engine.
- (c) An air pressure governor;
- (d) A wet tank equipped with an automatically operated, electrically heated, moisture-expelling valve. The wet tank **shall**^(B) be capable of being recharged from an external source using a glad hand;
- (e) A safety valve to protect system from excessive pressure;
- (f) An automatic air dryer;
- (g) A spring applied, air released, parking brake with arrangements for automatic service brake application on the rear axles in the event of loss of air pressure;
- (h) Airbrake hoses conforming to SAE Standard J1402. Brake lines passing through metal **shall**^(B) be protected to prevent damage or failure due to chafing;
- (i) Dust shields;
- (j) S-cam type brakes with automatic slack adjusters;
- (k) Glad hands air couplers, with integral cover, mounted on the rear of the vehicle, plus a minimum 1.2 metres (4 feet) of air line. A blue cover for service connection and a red cover for emergency connection **shall** be provided; and
- (l) A trailer brake control mounted at the operator's station on or near the steering column.

3.9 Steering - The vehicle **shall** be equipped with power assisted steering with a tilt steering column and **shall** revert to manual mode in the event of power assist failure.

3.10 Axles and Suspension - Axles and suspension components **shall** not be loaded greater than their rated capacities during operation with the aerial device in any operating position(s). The front and rear axle weights and ratings **shall** be provided in the bid submission.

3.10.1 Front axle and suspension - Front suspension **shall** include at minimum:

- (a) Heavy-duty hydraulic double acting shock absorbers; and
- (b) Multi-leaf type springs with bumper pads.

3.10.2 Rear axle and suspension - The rear suspension **shall** be variable leaf spring suspension with bumper pads. The suspensions **shall** be equipped with rear suspensions stabilizer.

3.11 Wheels, Rims 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 tires and rims

shall have sufficient load capacity for a vehicle loaded to rated capacity (GVWR). Wheel, rim, and tire requirements **shall** also include:

- (a) Tires of the same size and ply rating. Ply ratings not included in the Tire and Rim Association Year Book will not be acceptable;
- (b) Mud and Snow tires on the front, rear, and spare wheels;
- (c) Wheel assemblies and rims **shall**^(E) be interchangeable, front and rear; and
- (d) Rear inner tires with valve extension for easy access.

3.11.1 **Spare Tire** - Each vehicle **shall** be delivered with a spare tire and rim assembly identical to the wheels used on the front and rear axles, including wheel changing tools and hydraulic jack.

3.12 **Vehicle Controls** - Controls **shall**^(E) conform to the general criteria set out in SAE J1814 and J898 and **shall**:

- (a) Not restrict the operator's field of view;
- (b) Be permanently marked to identify and show function of each control lever or switch with markings/instructions in English and French or international symbols as defined by SAE J1362. Markings **shall** include permanently attached instructions detailing operation of the engine, transmission, and attachments; and
- (c) Have controls easily accessible to the operator.

3.13 **Vehicle Instruments** - Instruments **shall** be readily visible while seated in the vehicle driver's seat. Panel instrument lamps **shall**^(E) have a dimmer switch. Instruments **shall** include:

- (a) An ammeter, or voltmeter;
- (b) An engine oil pressure indicator;
- (c) A fuel gauge or fuel gauges, as required;
- (d) Coolant temperature indicator;
- (e) If applicable, a torque converter oil temperature indicator;
- (f) PTO controls;
- (g) Transmission temperature gauge or warning device to indicate high temperature;
- (h) Brake system air pressure indicating gauge;
- (i) An hour-meter with numeric display, which accurately records accumulated engine running time up to at least 9,999 hours;
- (j) An engine tachometer;
- (k) An air pressure gauge in psi and kPa, to display the pressure in each air controlled valve supply line; and

(l) Outrigger position warning light.

3.14 Equipment

3.14.1 Derrick - A hydraulic radial boom derrick **shall** be provided and the derrick:

- (a) **Shall** be rear, curb-side, corner mounted;
- (b) **Shall** have the following minimum sheave heights:
 - i Upper boom - 15.24 meters (50 feet);
 - ii Intermediate boom - 12.2 meters (40 feet); and
 - iii Lower boom - 9.15 meters (30 feet).
- (c) **Shall** be a 3-stage box type construction boom, where:
 - i The first and second stages are constructed of high strength steel;
 - ii The third stage is constructed of reinforced fibreglass; and
 - iii The boom is complete with a hydraulic pole guide (pole claw).
- (d) **Shall** be dielectrically tested to 69 kV in accordance with CSA C225;
- (e) **Shall** be capable of a minimum boom articulation range of 20 degrees below horizontal to 80 degrees above horizontal;
- (f) **Shall** have a minimum digging radius of 5.5 meters (18 ft), and a maximum digging radius of 8.3 meters (27 ft). A 305 mm (1 ft) deviation is acceptable;
- (g) **Shall** be equipped with a boom overload protection system;
- (h) **Shall** have 360 degree continuous rotation or a minimum 370 degrees non-continuous rotation. If continuous rotation is used, a worm gear complete with side load protection to protect against rotation damage shall be provided. If non-continuous is used, the rotation stop **shall**^(E) be at forward centre of turret to allow free rotation at rear of vehicle;
- (i) **Shall** have a lateral reach, with the intermediate boom extended, of at least 9.15 metres (30 ft) and with fibreglass self-storing extension of at least 12.2 metres (40 ft);
- (j) **Shall** have the following minimum lifting capacities (with the auger stowed) (not bare boom):
 - i 21,772 kg (48,000 lbs.) with the boom at 80 degrees elevation above the horizontal and all booms retracted;

- ii 8,3465 kg (18,400 lbs.) with the boom at 80 degrees elevation above the horizontal and all booms extended;
- iii 1,950 kg (4,300 lbs.) at 45 degrees with all booms extended; and
- iv 862 kg (1,900 lbs.) at 0 degrees with all booms extended.

Note: A lift capacity chart **shall** be provided (showing load capacity vs. radius) for all boom positions.

(k) Third extension applies:

- i A fibreglass hydraulic third extension **shall** be provided;
- ii The third extension **shall**^(B) be at least 2.74 metres (9 feet) long; and
- iii A pulley at the end of the fibreglass extension **shall** be provided.

(l) **Shall**^(B) be equipped with fully adjustable load holding valves on the boom lift cylinder, and one-way pilot operated holding valves on the boom lift cylinder and the boom extension cylinders. Where possible, these valves are desired to be integral with the cylinder. If not possible, high-pressure steel tubing **shall**^(B) be used between the hydraulic cylinder and the holding valve to adequately protect against damage;

(m) **Shall**^(B) be equipped with pivot and lift cylinder pins with grease fittings; and

(n) **Shall**^(B) be equipped with hydraulic digger mounting brackets on the main and intermediate boom sections.

3.14.2 **Winch** - The following winches **shall** be provided:

(a) **Boom Tip Winch** - A hydraulic boom tip winch **shall** be provided. The minimum bare drum rated winch capacity **shall** be at least 6,804 kg (15,000 lbs), at a 45-degree elevation. The winch **shall**^(B) be equipped with a minimum 23 metre (75 foot), ½" 6x19 IWRC cable with a rated breaking strength of not less than 10,432 kg (23,000 lbs). The winch cables **shall**^(B) be supplied with a mechanical spliced eye at the end, of equal or greater strength than the cable.

(b) **Front Winch** - A hydraulic front winch **shall** be provided. It **shall**^(B) be a Braden hydraulic planetary bumper mount recovery winch Model HUP30B. The hydraulic winch **shall**:

- i Have a minimum rated top layer capacity of 13,607 kg (30,000 lbs);
- ii **Shall**^(B) include a 3/4" wire rope with a minimum length of 76 m (250 feet).
- iii Include an extension shaft;

- iv Operate using a wireless remote control unit, powered in both directions; and

3.14.3 Hydraulic Digger / Auger

- (a) A two speed hydraulic digger **shall** be provided. The digger **shall** have a minimum torque rating of 12,000 ft-lbs at low speed and 3,000 ft-lbs at high speed;
- (b) Two vehicle-mounted augers **shall** be provided. The auger heads are desired to be Pengo and the augers **shall**:
 - i Have nominal diameters of 558 mm (22 inches) and 914 mm (36 inches);
 - ii Be equipped with carbide teeth; and
 - iii Come complete with a screw anchor wrench assembly for 1 ½" anchors and 2 ½" Kelly bar with locking dog assembly.
- (c) Oil auger release valve **shall**^(E) be provided;
- (d) An auger overwind protection system **shall** be provided;
- (e) A nylon rope to elevate the auger to the stored position **shall**^(E) be provided;
- (f) All necessary plumbing and controls to operate digger **shall** be provided;
- (g) Stowage for extension shaft and out-put digger shaft **shall** be provided; and
- (h) Stowage brackets for two augers **shall** be provided. Location of brackets can be finalized at a pre-production meeting; suggested locations could be on the front boom rest and on top of right hand compartments.

3.14.4 Pole Equipment

- (a) Pole Puller - A hydraulic pole puller **shall** be provided, with a minimum rated capacity of 22680 kg (50,000 lbs) at 2000 psi. The pole puller **shall** fit into a mounting tray on the platform deck and **shall** include at least 2.1 metres (7 feet) of 16 mm (5/8 inch) high tensile chain and base.
- (b) Pole Tamper - A hydraulic tamper at least 1.8 metres (72 inches), including quick release couplers **shall** be provided. The tamper **shall**^(E) have a kidney-shaped foot, control valve on tube, and a free flow return line.
- (c) Pole Grabber - A hydraulic tilting pole grabber **shall** be provided. It **shall** be mounted in such a position so as to not interfere with the operation of fibreglass extension or cause the bucket to be removed to effect operation. A pole tang interlock **shall**^(E) be provided.

3.14.5 **Removable Vice** - A removable vice mount with a 4" vice at the rear of the platform extension **shall** be provided.

3.14.6 **Brackets** - The following **shall**^(B) be provided:

- (a) A bracket for storing the CR collapsible power reel at the right side of the cargo compartment;
- (b) Four brackets to hold warning flags, which are mounted on the vehicle corners;
- (c) Ladder mounting brackets complete with rollers for easy removal and stowage complete with tool tray, material rail and chains and pike pole bracket, mounted on the upper left side of the line maintenance body;
- (d) A safety cone holder located on the front of the truck which **shall** not interfere with servicing of the vehicle;
- (e) Holders located under the side compartments on each side of the truck used for storage of the outrigger pads; and
- (f) A spindle bar and brackets located at the rear of the cargo compartment, complete with a storage bracket for the bar. The brackets are to be mounted at a height adequate to allow the use of a 1,219 mm (48 in) diameter reel;

3.14.7 **Outriggers** - Primary and auxiliary hydraulic, A-frame, folding shoe, outrigger jacks **shall** be provided. Each outrigger **shall** be equipped with a hardwood pad at least 457 mm by 457 mm by 50.8 mm thick (18 in by 18 in by 2 in). The installation **shall**^(B) include:

- (a) Retracting or radial type jacks; and
- (b) Two-way, double acting, pilot operated check valves on all outrigger cylinders. Where possible, these valves are desired to be integral with the cylinder. If not possible, high-pressure steel tubing **shall**^(B) be used between the hydraulic cylinder and the holding valve and **shall**^(B) be adequately protected against damage.

3.14.8 **Derrick Instruments and Controls** - The derrick **shall** be equipped with lower controls. Controls **shall** be permanently marked to identify and show function of each control lever or switch with markings/instructions in English and French or international symbols as defined by SAE J1362. Markings **shall** include permanently attached instructions detailing operation of the aerial device. The lower control seat **shall** be mounted beside the turret. The control station **shall** be equipped with the following instruments and controls:

- (a) Stop and start engine ignition switch;
- (b) A direct reading type hydraulic hour meter with registration not less than 9,999 hours;

- (c) Hydraulic pressure gauges to indicate operating pressures;
- (d) Warning device when overloading the boom;
- (e) Controls for:
 - i Main selector control for derrick, auger, outrigger, and tip winch;
 - ii Derrick elevation, rotation, and extension;
 - iii Auger rotation and storage;
 - iv Left and right outriggers;
 - v Boom tip winch;
 - vi Pole puller;
 - vii Pole Tamper; and
 - viii Pole grabber.
- (f) **Shall**^(B) be equipped with full pressure hydraulic catrack style upper controls mounted on the boom; and
- (g) **Shall**^(B) have a boom rest position warning light mounted in the cab.

3.15 Other Equipment - The vehicle **shall** be equipped with the following miscellaneous equipment:

- (a) License plate holders, front and rear with license plate lights in accordance with CMVSS 108. The license plate light **shall** be connected to the current lighting system;
- (b) Standard mud flaps at the front wheels, spring loaded mud flaps at the rear wheels;
- (c) Two recovery tow points mounted at the front and at the rear, hooks and mountings of sufficient strength to permit the recovery of the fully loaded vehicle;
- (d) A certified fire extinguisher, easily accessible, properly mounted, suitable for low temperature use, with a minimum capacity of 9 kg (20 lbs), located at the left of the rear platform extension; and
- (e) A certified fire extinguisher, easily accessible, properly mounted, suitable for low temperature use, with a minimum capacity of 2.3 kg (5 lbs), located in the cab in a convenient location.

3.16 Electrical System - The vehicle/equipment **shall**^(B) be supplied with a 12 volt electrical system, and **shall**^(B) include:

- (a) Heavy-duty maintenance free batteries, in an accessible well protected location, mounting **shall**^(B) include heat shielding if necessary, and proper hold-downs. Batteries **shall** have a minimum of 1800 cold cranking

amperes (CCA) available at -18°C for 30 seconds;

- (b) An alternator with a minimum output of 135 amperes and capable of supplying sufficient current to carry all electrical load requirements;
- (c) Grommets protecting electrical wiring passing through metal components;
- (d) An audible back-up alarm to alert personnel that the vehicle transmission is in reverse;
- (e) A static inverter attached to the direct current (DC) electrical system to produce a nominal 120 VAC, 60 hertz output with a minimum capacity of 3000 watts. The inverter **shall** have its own deep cycle batteries that are charged by the truck but isolated to prevent drain of truck battery (Advise inverter storage and position of AC power outlets);
- (f) Two (2) 120 volt, 60 hertz power outlets, in accordance with CSA Canadian Electrical Code standards, one flush mounted at the rear of the vehicle and one at working level of the bucket. Outlets **shall** be equipped with a protective cover;
- (g) All cold weather aids **shall** be connected together with a single, cover-protected, external electrical power plug. The plug **shall** be in accordance to CSA-C22.2-Wiring Devices;
- (h) A seven-pin twelve-volt trailer receptacle mounted at the rear of the vehicle, plus 1.2 metres (4 feet). The trailer electrical receptacle **shall**^(E) be Phillips J560, conforming to ISO 3731;
- (i) A back-up camera system which will give the driver a real-time view of the area behind the vehicle. The system **shall** incorporate an in cab, driver accessible screen with a minimum size of 25 square centimetres. The system **shall**^(E) be Safetyvision model SV-CLCD-56B1; and
- (j) A master disconnect switch for electrical system.

3.17 Lighting - The vehicle/equipment **shall** have lights and reflectors in accordance with CMVSS. Lights **shall**^(E):

- (a) Be recessed or otherwise protected from damage with all components easily accessible for servicing. Relocation of existing chassis light **shall** not be acceptable;
- (b) Be LED, including: all lamps, reflectors, and self-cancelling turn signal system conforming to the requirements of the Highway Traffic Act of the Province Ontario. The turn signals **shall** be capable of being used as emergency flashers;
- (c) Include two (2) Star Warning Systems 25000 amber coloured LED beacons mounted in a suitable location to achieve maximum visibility and protection from boom rotation. Switches mounted within the cab **shall**^(E) operate the beacon lights;
- (d) Include instrument panel lamps;
- (e) Include an interior cab lamp;
- (f) One manually engaged light installed in each compartment and three on the deck and a master switch for all these lights located in the cab;

- (g) Installation of a trailer light package;
- (h) Include three (3) driver operated, remote control, spot/flood lamps. The lamps **shall**^(B) be a 12 volt, 100 watt sealed beam type with a control module and extendable cable mounted on the instrument panel in the cab. The lights **shall**^(B) be a Federal Visibeam Searchlight Model SL with an SLCME2 control module, a Grote Model 63911. They **shall** be mounted as follows:
 - i One lamp mounted at the upper left;
 - ii One at the upper right rear corner of the cab;
 - iii One mounted above the derrick control panel;
- (i) Audible reverse lights to aid vision while reversing in low-light conditions.

3.18 Hydraulic System - A hydraulic system complete with pump, reservoir, filters, and control valves **shall** be provided, compatible with the PTO assembly. The following applies:

- (a) The system **shall** include one hydraulic fluid supply outlet and one hydraulic fluid return outlet on each of: the rear of the vehicle, lower pedestal, and upper control station;
 - i The hydraulic fluid supply outlet is desired to be Male fitting Aero-Quip 5602-12-12S, equipped with male dust cap Aero-Quip 5657-12; and
 - ii The hydraulic fluid return outlet is desired to be female fitting Aero-Quip 5601-12-12S, equipped with female dust cap Aero-Quip 5659-12.
- (b) Hydraulic Hose and Reel - Two (2) 25 ft hydraulic hoses (one supply line and one return line) with two (2) quick disconnect couplings, dust caps and fittings for hydraulic tool use, **shall** be installed on a manual reel, with spring retract capability;
- (c) All hydraulic hose assemblies **shall**^(B) comply with SAE J517;
- (d) The hydraulic pump **shall**^(B) be incorporated as part of the PTO assembly or driven by a shaft from the PTO;
- (e) The hydraulic tandem pump **shall**^(B) deliver an appropriate flow for derrick operation, and derrick and winch operation combined.
- (f) The hydraulic cylinders **shall**^(B) have chrome-plated piston rods;
- (g) The oil reservoir **shall** be of sufficient volume so that the oil does not overheat during normal operations. The reservoir **shall**^(B) be mounted against the front wall of the rear cargo compartment;
- (h) The supply tubes on the boom that supply hydraulic fluid to the digger

and winch are desired to be telescopic with Lenz "O" Ring tube fittings or high pressure "U" cup seal and wiper. The telescopic tubes **shall**^(E) be protected from damage by telescopic steel covers, which **shall**^(E) be removed easily to allow inspection or servicing of the hydraulic system;

- (i) Gate valves in the suction and return lines to the hydraulic pump **shall**^(E) be installed to prevent loss of oil from the system when serving the filters and pump;
- (j) The suction line from the reservoir **shall**^(E) be fitted with a 60 mesh reusable strainer with a 3 psi bypass valve. The return line filter **shall**^(E) be fitted with a 10-25 micron paper element filter with a 15 psi bypass valve. The filter **shall** have a flow rate of a least 205 lpm (45 gpm). All filters **shall** be readily accessible for servicing;
- (k) A test fitting **shall**^(E) be located at the outlet of the pump so that a pressure meter may be installed to check the system if required; and
- (l) Hydraulic tool outlets at the pedestal **shall** be provided.

3.19 Lubricants and Hydraulic Fluids - The vehicle **shall**:

- (a) Be serviced with manufacturer's standard lubricants and hydraulic fluids compatible with delivery location and season; and
- (b) Operate satisfactorily on Canadian Forces Supply Line lubricants, which include 15W40, 85W140, DEXRON III, or synthetic equivalents. Vehicle hydraulic systems **shall** operate using DEXRON III.

3.20 Paint - Paint applied in accordance with the paint manufacturer's recommendations and the manufacturer's best production procedures, rendering a durable finish and a smooth appearance free from runs, sag, and orange peel. The vehicle **shall** be painted Yellow. The chassis components may be painted the manufacturer's standard colour.

3.21 Corrosion Protection System - The following **shall** be provided for the vehicle:

- (a) Aftermarket rust proofing provided in addition to standard factory rust proofing. The treatment will normally be applied within the first year of service. The treatment date will 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 vehicle;
- (b) Metal surfaces 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 includes, but is not 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 accompanying each vehicle; and
 - (e) Corrosion protection system widely available across Canada or available through mobile services. The following corrosion protection system is provided as guidance: Krown Rust Kontrol or Rust Check products. If another product is used, 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 previously certified, proof not required.

3.21.1 **Corrosion Resistant Materials** - The vehicle/equipment **shall**^(E):

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

3.22 **Warning, Markings and Instruction Plates** - International symbols and/or bilingual markings **shall** be provided for all identification, instructional, and warning labels. The following items **shall** be provided:

- (a) Be bilingual and within easy view of the operator and/or make use of graphic symbols, as much as possible, as defined in SAE J1362;
- (b) Engraved metal plates labelling all gauges and controls and **shall** be attached with rivets wherever possible.
- (c) Detailed, bilingual operating instruction plates for all operations, including, but not limited to:
 - i Remote on/off start controls;
 - ii Engine starting and shut-down, in the cab within easy view for the driver;
 - iii Transmission operation, in the cab within easy view for the driver;
 - iv PTO operation, in the cab within easy view for the driver;
 - v Operation of the winch;
 - vi Operation of the hydraulic controls; and
 - vii Hydraulic Derrick capacity chart.

3.22.1 **Vehicle identification** - The following information placards **shall**^(E) be permanently and clearly marked, bilingual and installed in a conspicuous and protected location:

- (a) The cab and chassis manufacturer's name, model number, serial number, and model year;

- (b) The body manufacturer's model and serial number;
- (c) The digger derricks manufacturer's model and serial number; and
- (d) The GVWR and GAWR ratings.

3.22.2 **Rear Markings** - A diagonal, black and white striped, warning pattern **shall** be formed on the rear face of the platform extension, the back of the left side of the line body, and the rear face of the derrick main frame. Gloss black paint and white reflective tape **shall** be used to form stripes 76 mm (3 in) wide.

4. **INTEGRATED LOGISTICS SUPPORT** - The Contractor **shall** ensure that spare parts required to properly maintain and repair completed vehicles are available for purchase for a minimum period of fifteen (15) years.

4.1 **Documentation** - The Contractor **shall** provide the following documentation:

4.1.1 **Deliverable Information** - The Contractor **shall** provide the deliverable information with each vehicle:

- (a) **Warranty Letter** - A paper copy of the completed bilingual Warranty Letter with each vehicle shipped in the approved format. The Contractor **shall** send a copy of the Warranty Letter, in electronic format, to the Technical Authority for each vehicle, at shipment. Warranty information and certification for corrosion protection **shall** be provided. Designated warranty providers **shall** honour the warranty letter.
- (b) **Vehicle Manuals** - The Vehicle **shall** be provided with manuals required for the safe operation, maintenance, and repair of the vehicle, sub-systems, attachments, components, and accessories supplied. Manuals **shall** be provided in accordance with the terms of the contract. The following manuals **shall** be provided:
 - i **Operator's Manual** - Operator's manual **shall** be provided in a bilingual format or as two manuals in a single binder (one English, one French). The operator's manual **shall** contain the following information:
 - 1. Instructions for the safe operation of the vehicle;
 - 2. Daily operator maintenance instructions/checks (including lubrication);
 - 3. Safety warnings; and
 - 4. Hand signals (as necessary).
 - ii **Parts Manual** - The Parts Manual **shall** be in English (French translation is desirable). The Parts Manual **shall** contain the following information:
 - 1. Illustrations showing all components of the vehicle including equipment and accessories from other manufacturers that is supplied against the requirements of the contract.

The illustrations **shall** have numbers for the itemization of the parts;

2. A listing for all itemized parts showing the manufacturer's part numbers (including Original Equipment Manufacturer's) of the illustration, the part name, and a brief description of the item; and
3. Cross reference relating all part numbers (including Original Equipment Manufacturer's) to the correct figure and item number.

iii Maintenance (Shop Repair) Manual - The Maintenance (Shop Repair) Manual **shall** be provided in a bilingual format or as two manuals in a single binder (one English, one French). The Maintenance (Shop Repair) Manual **shall** contain the following information:

1. A trouble shooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of what steps would be required to correct a problem;
2. A listing of the necessary tolerances, torque levels, and fluid volumes required.
3. A section listing any special tools (including item part numbers) required **shall** be included; and
4. Information on the order of disassembly and assembly of the systems and components of the vehicle.

(c) Equipment Manuals - All Equipment provided by the prime contractor and added to the vehicle **shall** have their own set of manuals. These **shall** include:

- i Operating Instructions with all the elements given in paragraph 4.1.1.b.i and information on the operating instructions and configurations that provide stable operation of the aerial device at net platform and net supplement capacities as per CSA C225-10, as per 3.14.1 (m);
- ii Parts Manual with all the elements given in paragraph 4.1.1.b.ii; and
- iii Maintenance Manual (Shop Repair) with all the elements given in paragraph 4.1.1.b.iii.

(d) Manuals on CD/DVD-ROM - A copy of the manuals on CD/DVD-ROM **shall** be provided. This **shall** include all the manuals provided in clauses 4.1.1 (a) and (b) above. Manuals on CD/DVD-ROM **shall**^(E) be interactive so that a maintainer can troubleshoot, disassemble and determine the part numbers required with a minimum of searching. The manuals in electronic format **shall** include a full search capability. The Technical Authority **shall** approve the electronic manual format. Operators' manual(s) **shall** also be supplied in paper format. For usability, CD/DVD-ROM **shall not** require password and/or Internet connection to be accessed.

(e) Sample Manuals - The Contractor **shall** deliver a set of sample manuals, in electronic format only, including all documents in items 4.1.1 (a)

and (b) above. The sample manuals **shall** be delivered to the LCMM. Sample manuals will not be returned. In the event that manuals are dependent on first vehicle completion, sample manuals **shall** be submitted within thirty (30) days after the pre-production vehicle approval or first production vehicle inspection. The Crown shall provide approval or comments on the manuals within thirty (30) days.

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

4.1.2 Documents Provided to Technical Authority - The Contractor **shall** provide the following documents to the Technical Authority:

- (a) **Data Summary** - A bilingual Data Summary for each make/model/ configuration by completing Technical Authority's template with data and a vehicle picture. The Contractor **shall** provide a Data Summary, if possible, before shipment of the vehicle.
- (b) **Photographs** - Three (3) digital pictures, one left-front three-quarter view, one right-rear three-quarter view, and one of the control panel. It is preferred that pictures have an uncluttered background. Pictures **shall** have a size of at least 4 Mega pixels.
- (c) **Recommended Spare Parts List** - The Contractor **shall** provide, to the Technical Authority, a list detailing the spare parts deemed necessary to maintain the vehicle for a period of 12 months exclusive of any warranty period, for each configuration. The Recommended Spare Part List **shall**:
 - i A complete change of all filters and filter elements **shall** be included;
 - ii Components such as fan belts and fuses may be included; and
 - iii For each part listed, the following elements **shall** be included:
 1. Part description;
 2. Original Equipment Manufacturer;
 3. Original Equipment Manufacturer Part Number;
 4. Suggested quantity; and

5. Unit cost.

- (d) List of Special Tools - The Contractor **shall** provide a list detailing the special tools required for the vehicle that would not be included in a mechanics toolbox. This would include items such as special wrenches or extraction devices, winter tire chains, and special diagnostic tools/software. For each item listed the following elements **shall** be included:
1. Part description;
 2. Original Equipment Manufacturer;
 3. Original Equipment Manufacturer Part Number;
 4. Suggested quantity; and
 5. Unit cost.
- (e) Line Setting Ticket - One copy of the chassis manufacturer's Line Setting Ticket, or equivalent, describing the components provided on the cab and chassis **shall** be provided to the Technical Authority. One copy **shall** accompany the vehicle to the final delivery point.
- (f) Chassis Information - The contractor **shall** provide a document detailing the chassis information as stated in section 3.4.1 of this PD.

4.2 Training - The Contractor **shall** perform the following training:

- (a) **Training - Maintenance Personnel** - The Contractor **shall** provide a maintenance/repair training course. The course **shall**:
- i Be given at the delivery destination;
 - ii Have a minimum duration of one (1) day to provide training of up to eight (8) maintenance personnel;
 - iii Be available in both official languages for locations in the province of Quebec and when requested by the Crown;
 - iv Have the final dates arranged with the Life Cycle Material Manager (LCMM);
 - v Have a syllabus or course outline and schedule available for review seven (7) days prior to the course commencement date;
 - vi Include the following items in the curriculum:
 1. Operator's training detailed in 4.2(b)vi below;
 2. Operation and maintenance safety precautions;
 3. Preventive maintenance including servicing schedules (10 % of classroom time);
 4. Trouble shooting, testing, and adjustments (70 % of classroom time); and
 5. Special tools and test equipment.

vii After completion of the course, the Contractor **shall** have a "PROOF OF MAINTAINER TRAINING" certificate signed by a Crown Representative for the destination. The Technical Authority shall supply this document in an electronic format.

(b) **Training - Operators** - The Contractor **shall** provide an operator training course. The course **shall**

- i Be given at the delivery destination;
- ii Have minimum duration of one (1) day to provide training for up to six (6) DND operators.
- iii Be available in both official languages for destinations in the province of Quebec and when requested by the Crown.
- iv Have the final dates arranged with the Life Cycle Material Manager (LCMM);
- v Have a syllabus or course outline and schedule available for review seven (7) days prior to the course commencement date;
- vi The course curriculum **shall** include:
 - 1. Safety precautions to be observed while operating and servicing the vehicle;
 - 2. Vehicle/equipment operating characteristics;
 - 3. Vehicle/equipment operating procedures;
 - 4. Pre-operating and pre-shutdown procedures;
 - 5. Daily/weekly operator servicing procedures; and
 - 6. A minimum of two (2) hours practical operating experience, per operator.
- vii After completion of the course the Contractor **shall** have a "PROOF OF OPERATOR TRAINING" certificate signed by a Crown Representative for the destination. The Technical Authority shall supply this document in an electronic format.

(c) **Training Materials** - For all training provided by the Contractor, for each attendee, the Contractor **shall** provide training syllabi, which **shall** include, at least:

- i A list of topics to be covered;
- ii An approximate timetable showing when topics are scheduled to be covered and how much time is scheduled for each topic; and
- iii Lists any reference material.
- iv Make available any reference material used.

4.3 Certification - The Contractor **shall** provide the following certification:

- (a) Written manufacturers certification, by a Professional Engineer that the mounted unit meets or exceeds CSA Standard C225-10 for structural and stability requirements, ANSI/ASSE A10.31-2006 for dielectric requirements, and OHSA to be included with each completed vehicle and a copy sent to the TA.
- (b) Engineering certification of the chassis suitability for this application upon request.
- (c) The completed vehicle **shall** have Safety Compliance Certification Label with a **National Safety Mark (NSM)** in accordance with the Canada Motor Vehicle Safety Act;
- (d) Written proof of a twelve hour ASTM B117 salt spray endurance test certification by an independent test laboratory if required.

4.4 Testing - The following testing **shall** be performed on the vehicle:

- (a) All testing required to meet the C225-10 and ANSI/ASSE A10.31-2006 certifications for dielectrical rating, stability, and structure;
- (b) **Performance and Verification Testing** - The first vehicle to be delivered **shall** be examined and performance tested by the Contractor, under real or equivalent load and operating conditions, to ensure item by item conformance to specified requirements. The QAR and/or the Technical Authority may witness this testing and operate the unit sufficiently to assess the handling characteristics. The Contractor **shall** have a fully equipped vehicle weighed on certified scales, and the total weight and weight on each axle **shall** be furnished.
- (c) **Remaining Vehicle Testing** - The remaining vehicles **shall** be tested by the Contractor, with or without load, to check general performance and operation.



Annex « C »

TECHNICAL INFORMATION QUESTIONNAIRE

DETACH, COMPLETE, AND RETURN

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.

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

Company Name - _____

Name of Representative - _____ - Signature - _____

Manufacturer's Name - _____

Compliance

Equipment provided complies with all specified requirements? Yes No

Explanation _____

Substitutes/Alternatives

Are any substitutes/alternatives offered as equivalent? Yes No

Is Information provided for evaluation of offered equivalents? Yes No

PURCHASE DESCRIPTION PARAGRAPHS

3. REQUIREMENTS

3.1 Standard Design - Complies? Yes No

Explanations _____

	Vehicle	Equipment
Make		
Model		
Year		

Product brochure attached. Yes No

3.1.1 Design Principles - Complies? Yes No

Explanation _____

3.2 Operating Conditions

3.2.1 **Weather** - Complies? Yes No

Explanation _____

3.2.2 **Terrain** - Vehicle operates in specified terrain? Yes No

Explanation _____

3.3 **Safety** - Complies? Yes No

Explanation _____

3.3.1 **Vehicle Safety Regulations** - Complies? Yes No

Explanation _____

3.3.2 **Equipment Integrator(s) Certification** - Complies? Yes No

Explanation _____

NSM Certification Number:

3.3.3 **Aerial Device Safety** - Complies? Yes No

Explanation _____

3.3.4 **Noise Levels** - Complies? Yes No

Explanation _____

3.3.5 **Human Engineering and Safety** - Complies? Yes No

Explanation _____

3.4 **Vehicle Performance** - Complies? Yes No

Explanation _____

Maximum Forward Speed	
Maximum Cruising Speed	
Gradeability at 5 km/h	
Gradeability at 90 km/h	

Attached computer generated vehicle performance prediction analysis
Yes No

3.4.1 **Weights and Dimensions** - Complies? Yes No

Explanation _____

Please provide the following information for the vehicle:

GVWR	
GAWR	
Wheelbase (WB)	
Cab-to-axle (CA)	
Overhang (OH)	
Overall (OL)	
Bumper-to-axle (BA)	

3.4.2 **Vehicle Delivery Condition** - Complies? Yes No

Explanation _____

3.5 **Cab, Chassis and Body**

3.5.1 **Cab** - Complies? Yes No

Explanations _____

3.5.2 **Frame** - Complies? Yes No

Explanations _____

3.5.3 **Chassis** - Complies? Yes No

Explanations _____

3.5.4 **Body** - Complies? Yes No

Explanation _____

3.5.4.1 **Side Compartments** - Complies? Yes No

Explanation _____

Attached proposed compartment layout drawings showing dimensions of compartments as well as any optional compartment shelving, bins and equipment storage configurations available. Yes No

3.5.4.2 **Trailer Capability** - Complies? Yes No

Explanation _____

3.6 **Engine** - Complies? Yes No

Explanation _____

Please identify make/model/year of the engine for the vehicle:

Engine Make	
Engine Model	
Engine Year	

3.6.1 **Engine Components** - Complies? Yes No

Explanation _____

(i) Automatic Shut-down - Complies? Yes No

3.6.2 **Fuel Tank(s)** - Complies? Yes No

Explanation _____

Fuel Tank(s) Total Capacity (specify units): _____

3.6.3 **Primary Cold Weather Aids** - Complies? Yes No

Explanations _____

Please identify make/model of cold weather aids for the vehicle:

	Make	Model
Water Separator / Fuel Filer		
In-Line Fuel Heater		

(c) Identify the Low Temperature Starting Aid Type (check one):

Glow Plug Intake Air Preheat

3.6.4 **Auxiliary Cold Weather Aids** - Complies? Yes No

Explanations _____

3.6.5 **Exhaust System** - Complies? Yes No

Explanations _____

3.7 **Power Train** - Complies? Yes No

Explanations _____

3.7.1 **Transmission** - Complies? Yes No

Explanations _____

Make _____ Model _____

3.7.2 **Power Take-Off (PTO)** - Complies? Yes No

Explanations _____

Make _____ Model _____

3.8 **Braking System** - Complies? Yes No

Explanations _____

3.9 **Steering** - Complies? Yes No

Explanations _____

3.10 **Axles and Suspension** - Complies? Yes No

Explanations _____

Please label each axle, and identify the loaded weight and weight rating for each axle, for the vehicle:

Axle	Axle Weight (loaded)	Axle Weight Rating

3.11 **Wheels, Rims and Tires** - Complies? Yes No

Explanations _____

Please identify front/rear tires on the vehicle:

	Front	Rear
Make		
Model		
Size		

Attached literature on tires Yes No

3.11.1 **Spare Tire** - Complies? Yes No

Explanations _____

3.12 **Vehicle Controls** - Complies? Yes No

Explanations _____

3.13 **Vehicle Instruments** - Complies? Yes No

Explanations _____

3.14 **Equipment**

3.14.1 **Derrick** - Complies? Yes No

Explanations _____

Attached lift capacity chart (showing load capacity vs. radius) for all boom positions. Yes No

Please identify the following for the Derrick (specify units):

Upper boom sheave height	
Intermediate boom sheave height	

Lower boom sheave height	
Boom articulation range	
Maximum and Minimum Digging radius	
Minimum non-continuous rotation	
Extended intermediate boom lateral reach distance	
Boom lift capacity: 80 degrees elevation with all booms retracted	
Boom lift capacity: 80 degrees elevation with all booms	
Boom lift capacity: 45 degrees elevation with all booms extended	
Boom lift capacity: With all booms extended horizontally	
Third extension length	

3.14.2 **Winch** - Complies? Yes No

Explanations _____

Attached brochures Yes No

3.14.3 **Hydraulic Digger / Auger** - Complies? Yes No

Explanations _____

Please identify the following for the Digger (specify units):

Digger torque rating at low speed	
Digger torque rating at high speed	
Auger diameters	

3.14.4 **Pole Equipment** - Complies? Yes No

Explanations _____

3.14.5 **Removable Vice** - Complies? Yes No

Explanations _____

3.14.6 **Brackets** - Complies? Yes No

Explanations _____

3.14.7 **Outriggers** - Complies? Yes No

Explanations _____

3.14.8 **Derrick Instruments and Controls** - Complies? Yes No

Explanations _____

3.15 **Other Equipment** - Complies? Yes No

Explanations _____

3.16 **Electrical System** - Complies? Yes No

Explanations _____

(a) Battery total cold cranking amps: _____

(b) Alternator amperage: _____

Make: _____ Model: _____

(e) Static Inverter: Make: _____ Model: _____

3.17 **Lighting** - Complies? Yes No

Explanations _____

3.18 **Hydraulic System** - Complies? Yes No

Explanations _____

3.19 **Lubricants and Hydraulic Fluids** - Complies? Yes No

Explanations _____

3.20 **Paint** - Complies? Yes No

Explanations _____

Vehicle Colour: _____

3.21 **Corrosion Protection** - Complies? Yes No

Explanations _____

3.22 **Warning, Markings and Instruction Plates** - Complies? Yes No

Explanations _____

3.22.1 **Vehicle Identification** - Complies? Yes No

Explanations _____

3.22.2 **Rear Markings** - Complies? Yes No

Explanations _____

4. **Integrated Logistics Support**

4.1 **Documentation**

4.1.1 **Deliverable Information** - Complies? Yes No

Explanations _____

4.1.2 **Documents provided to Technical Authority** - Complies? Yes No

Explanations _____

4.2 **Training**- Complies? Yes No

Explanations _____

4.3 **Certification** - Complies? Yes No

Explanations _____

Attached engineering certification of chassis suitability Yes No

4.4 **Testing** - Complies? Yes No

Explanations _____



FOR GOVERNMENT USE ONLY POUR USAGE DU GOUVERNEMENT SEULEMENT	
Special Investigations Directorate File No. N° de dossier de la Direction des enquêtes spéciales	Date Received (Y-A M D-J) Date de réception

CONSENT TO A CRIMINAL RECORD VERIFICATION CONSENTEMENT À LA VÉRIFICATION DE L'EXISTENCE D'UN CASIER JUDICIAIRE

**This form must be completed and signed by each individual who is currently on the Board of Directors of the Bidder/Offeror/Supplier and provided with the Bid/Offer/Arrangement.
Le présent formulaire doit être rempli et signé par chaque membre du conseil d'administration du soumissionnaire/ de l'offrant/du fournisseur et fourni avec la soumission/l'offre/l'arrangement.**

A	PRIVACY ACT STATEMENT ÉNONCÉ CONCERNANT LA LOI SUR LA PROTECTION DES RENSEIGNEMENTS PERSONNELS
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The personal information requested on this form is collected under the authority of subsection 750(3) of the *Criminal Code*, paragraph 42(1(c)) of the *Financial Administration Act*, and sections 7 and 21 of the *Department of Public Works and Government Services Act*. The information will be used for validating the criminal conviction certifications necessary for obtaining or maintaining a procurement instrument. It may be shared with other government departments, agencies, as well as provincial, territorial, and federal courts, within the limits of what is required to conduct the criminal conviction verification.

Les renseignements personnels demandés dans le présent formulaire sont recueillis en vertu du paragraphe 750(3) du *Code criminel*, du paragraphe 42(1(c)) de la *Loi sur la gestion des finances publiques* et des articles 7 et 21 de la *Loi sur le ministère des Travaux publics et des Services gouvernementaux*. Ces renseignements seront utilisés pour valider les attestations de condamnation au criminel nécessaires pour obtenir ou conserver un instrument d'approvisionnement. Les renseignements peuvent être diffusés à d'autres ministères et organismes fédéraux, ainsi qu'à des tribunaux provinciaux, territoriaux et fédéraux, dans les limites de ce qui est requis pour la vérification des condamnations au criminel.

A refusal to provide information will result in the bid/offer/arrangement being rejected or the contract terminated, the standing offer being set-aside or the supply arrangement being cancelled, as applicable.

À défaut de fournir les renseignements demandés, la soumission/l'offre/l'arrangement sera rejeté ou le contrat résilié, l'offre à commandes sera mise de côté ou l'arrangement en matière d'approvisionnement sera annulé, selon le cas.

The personal information is described in personal information bank PWGSC PPU 184 - Integrity Assessment Program. Individuals have a right of access to, correction of and protection of their information in accordance with the *Privacy Act*.

Les renseignements personnels sont décrits dans les fichiers de renseignement personnels n° TPSGC PPU 184 - Programme de l'évaluation de l'intégrité. Les personnes ont le droit d'accéder aux renseignements personnels qui les concernent, ainsi que de les faire corriger ou protéger, conformément à la *Loi sur la protection des renseignements personnels*.

B	BIOGRAPHICAL INFORMATION - Must be completed by the individual RENSEIGNEMENTS BIOGRAPHIQUES - À remplir par l'individu
----------	---

Family Name (Last Name) - Nom (de famille)	Family Name at Birth - Nom de famille à la naissance
Full Given Names (No initials) - Prénoms au complet (aucune initiale)	
All other previously used names (i.e. maiden name, previously married names, legal name change, nicknames) Tout autre nom utilisé (tel que nom de jeune fille, noms maritaux précédents, changement de nom légaux, sobriquets)	
Gender - Sexe <input type="checkbox"/> Male / Masculin <input type="checkbox"/> Female / Féminin	Date of Birth - Date de naissance (Y-A M D-J)

**Current Residential Information
Information résidentielle actuelle**

Apartment No. - N° d'appartement	Street No. - N° civique	Street Name - Nom de la rue
City - Ville	Province	Postal Code - Code postal

C	CONSENT - Must be signed by the individual CONSENTEMENT - Doit être signé par l'individu
----------	---

I, the undersigned, confirm that I have read and understand the above *Privacy Act* statement and that I consent to the collection and use of my personal information as described therein.

Je, soussigné, confirme avoir pris connaissance de l'Énoncé concernant la *Loi sur la protection des renseignements personnels* et consens à la collecte et à l'utilisation des renseignements personnels fournis aux présentes.

Signature	
Print Name - Nom en lettres moulées	Date (Y-A M D-J)

D	ADMINISTRATIVE INFORMATION - Internal Government Use Only RENSEIGNEMENTS ADMINISTRATIFS - Pour usage interne du gouvernement seulement
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Requesting Branch/Sector/Directorate/Division - Direction générale/Secteur/Direction/Division requérante

Solicitation/Proposed Contract No. - N° de la demande de soumission/N° du contrat	Date of Request (Y-A M D-J) Date de la demande
---	---

Requesting Contact Person - Personne-ressource requérante	Contact Person Tel. No. - N° de tél. de la personne-ressource
---	---