



**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 0B2 / Noyau 0B2
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

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

Title - Sujet TRUCK, FLAT DECK, 10 TON CRANE	
Solicitation No. - N° de l'invitation W8476-175628/A	Date 2017-06-13
Client Reference No. - N° de référence du client W8476-175628	
GETS Reference No. - N° de référence de SEAG PW-\$\$HP-923-72984	
File No. - N° de dossier hp923.W8476-175628	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-07-25	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: Martin, Erik	Buyer Id - Id de l'acheteur hp923
Telephone No. - N° de téléphone (873) 469-3318 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

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

1.1 Requirement

Canada is seeking proposals to procure:

1.1.1 One (1), Truck, Flat Deck, 10 Ton Crane and ancillary items as described in Annex "A" - Pricing and in accordance with Annex "B"- Purchase Description - Truck, Flat Deck, 10 Ton Crane.

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

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

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

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

1.2. Debriefings

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.

1.3. Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

PART 2 - BIDDER INSTRUCTIONS

2.1 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 *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) 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 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: sixty (60) days

Insert: ninety (90) days

2.2 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.

2.3 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 to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

2.4 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.

2.5 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

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (2 hard copies);

Section II: Financial Bid (1 hard copy);

Section III: Certifications (2 hard copies);

Section IV: Additional Information (2 hard copies)

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

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

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

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

Section I: Technical Bid

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

Bidders should complete and submit with their bid the following;

- Appendix "1" - Technical Information Questionnaire - Truck, Flat Deck, 10 Ton Crane.

3.2 Substitute and Alternatives

Bidders may propose substitutes and alternatives where **equivalent** is indicated in the technical requirement description (Purchase Description/Statement of Requirement/Statement of Work). Offerors / suppliers are encouraged to offer or suggest green solutions whenever possible.

3.2.1 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.

3.2.2 Substitutes and alternatives offered as equivalent in form, fit, function and performance will not be considered for acceptance by the Technical Authority if:



- (a) The bid fails to provide all of the information requested to allow the Technical Authority to fully evaluate the evaluate the equivalency; or
- (b) The substitute and/or the alternative fail to meet or fail to exceed the technical requirements specified in the technical requirement description.

Section II: Financial Bid

Bidders must submit their bid in accordance with the Basis of Payment specified in Part 6 and Annex A - Pricing.

3.3 SACC Manual Clauses

3.3.1 Exchange Rate Fluctuation Risk Mitigation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form PWGSC-TPSGC 450 , Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
4. At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450 , for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

Section III: Certifications

Bidders must submit the certifications required under Part 5 - Certifications.

Section IV Additional Information

Canada requests that bidders submit the following information:

3.4 Delivery

3.4.1 Firm Quantity

While delivery of the vehicle is requested by November 15, 2017, the best delivery that can be offered is as follows:

Item 001 – One (1), Truck, Flat Deck, 10 Ton Crane and related items will be delivered within _____ calendar days from the effective date of the contract.

3.4.2 Optional Quantity

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

Item 002 – One (1), Truck, Flat Deck, 10 Ton Crane and ancillary items will be delivered within _____ calendar days after an option is exercised.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Mandatory Technical Evaluation Criteria

4.1.1.1 Mandatory Proof of Compliance

Bidders must submit, with their bid, all proof of compliance required in the Annex B -Purchase Description and the Appendix 1 - Technical Information Questionnaire.

4.1.1.2 Substitutes and/or Alternatives

Bidders proposing substitutes and/or alternatives must submit, with their bid all the information requested as detailed in Part 3, section 2 - Substitutes and Alternatives to be considered for evaluation.

4.1.2 Mandatory Financial Evaluation Criteria

4.1.2.1 Bidders must provide, with their bid, the financial information requested in the bid solicitation and at Annex A - Pricing for items 001, 002, 003, 004.

4.1.2.2 The prices of the bid Bids must be in Canadian dollars, DDP Delivered Duty Paid at destination, Incoterms 2000, for the firm quantity for item 001 and optional quantity item 002, Canadian dollars for familiarization instructions/training (option) item 003 and item 004. Canadian Custom Duties and Excise Taxes included where applicable, and Applicable Taxes are extra.

4.1.2.3 Aggregate Evaluated Price

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

4.1.2.4 To determine the total price for the firm quantity, calculation will be as follows:

- a) The firm unit price for the firm quantity will be multiplied by their identified estimated quantities.

4.1.2.5 Since the optional quantities are to be exercised by provinces, the firm unit price for the optional quantity will be averaged.

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

- a) The firm unit price for the optional quantity for each province identified will be added; and
- b) The sum will be divided by five (5).

4.1.2.6 The firm unit price for the English and French familiarization instructions/training (option) will be averaged.

To determine the average price for the familiarization/training (option), calculation will be as follows:

- a) The firm unit price for the English and French familiarization/Instructions/training (option) will be added; and
- b) The sum will be divided by two (2).

4.1.2.7 To determine the aggregate evaluated price for the firm quantity, optional quantity and the familiarization instructions/training (option), calculation will be as follows:

- a) The average price for the optional quantity obtained in 4.1.2.5 (b) above will be multiplied by the total estimated optional quantity identified;
- b) The average price for the familiarization instructions/training (option) obtained in 4.1.2.6 (b) above will be multiplied by the total estimated optional quantity identified; and
- c) The result will be added to the total price for the firm quantity obtained in 4.1.2.4 (a) above.

4.2. Basis of Selection

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

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

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

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

5.2.3 Additional Certifications Precedent to Contract Award

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

5.2.3.1 Product Conformance

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

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

Bidder's authorized representative signature

Date

5.2.3.2 General Environmental Criteria Certification

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

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

Bidders' Authorized Representative Signature

Date

Or

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

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

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

Bidders' Authorized Representative Signature

Date

PART 6 - RESULTING CONTRACT CLAUSES

6.1. Requirement

6.1.1 The Contractor must deliver One (1) Truck, Flat Deck, 10 Ton Crane and ancillary items as described in Annex "A" - Pricing and in accordance with Annex "B" - Purchase Description - Truck, Flat Deck, 10 Ton Crane.

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

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

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

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

6.2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.2.1 General Conditions

2010A (2016-04-04) General Conditions - Goods (Medium Complexity), apply to and form part of the contract.

6.3. Term of Contract

6.3.1 Delivery of Vehicle

6.3.1.1 Firm Quantity

Delivery date of the vehicle must be made as follows:

Item 001 – One (1) Truck, Flat Deck, 10 Ton Crane and ancillary items must be delivered on or before _____ (Date to be inserted by PWGSC the Contracting Authority at time of contract award.)

6.3.1.2 Option Quantity

Item 002 – One (1) Truck, Flat Deck, 10 Ton Crane and ancillary items to be delivered within _____ calendar days after an option is exercised. (Days to be inserted by PWGSC the Contracting Authority at time of contract award.)

6.4. Authorities

6.4.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Erik Martin
Title: Supply Specialist
Organization: Public Works and Government Services Canada -
Acquisitions Branch
LEFT Directorate, HP Division,
7A2, Place du Portage, Phase 3, 11 Laurier Street,
Gatineau Quebec, K1A 0S5
Telephone: 873 469-3318
E-mail: erik.martin@pwgsc-tpsgc.gc.ca

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

6.4.2 Procurement Authority

The Procurement Authority for the Contract is:

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

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

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

6.4.3 Technical Authority:

The Technical Authority for the Contract is:

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

Title: _____

Organization: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.4.4 Contractor's Representative

Name and telephone number of the person responsible for:

General enquiries

Name: _____ (To be completed by the bidder.)

Title: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

Delivery follow-up

Name: _____ (To be completed by the bidder.)
Title: _____
Telephone: ____-____-____
Facsimile: ____-____-____
E-mail: _____

6.4.5 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:

Item 001

Name: _____
Address: _____

Telephone Number: _____

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

6.5. Payment

6.5.1 Basis of Payment

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

6.5.1.1 Basis of Payment (BOP) Type 1

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

The price paid will be adjusted in accordance with the exchange rate fluctuation provision (as applicable). (delete if the bidder does not request the exchange rate fluctuation)

6.5.1.2 Basis of Payment (BOP) Type 2

Firm unit prices in Canadian dollars, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

The price paid will be adjusted in accordance with the exchange rate fluctuation provision (as applicable). ~~(delete if the bidder does not request the exchange rate fluctuation)~~

6.5.1.3 Basis of Payment (BOP) Type 3

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

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

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

The price paid will be adjusted in accordance with the exchange rate fluctuation provision (as applicable). ~~(delete if the bidder does not request the exchange rate fluctuation)~~

6.5.2 SACC Manual Clauses

C6000C	Limitation of price	2011-05-06
H1000C	Single Payment	2008-05-12 OR
H1001C	Multiple Payments	2008-05-12

6.5.3 Exchange Rate Fluctuation Adjustment

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.

2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:

$$\text{Adjustment} = \text{FCC} \times \text{Qty} \times (i_1 - i_0) / i_0$$

where formula variables correspond to:

FCC

Foreign Currency Component (per unit)

i_0



Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

i_1

exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

Qty

quantity of units

4. The initial exchange rate is typically set as the 16:30 Eastern Time (ET) rate as published by the Bank of Canada on the solicitation closing date.
5. For goods, the exchange rate for adjustment will be the 16:30 Eastern Time (ET) rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the 16:30 rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the 16:30 rate on the date the payment was due. The most recent 16:30 rate will be used for non-business days.
6. The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450 , Claim for Exchange Rate Adjustments.
7. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450  (i.e. $[i_1 - i_0] / i_0$).
8. Canada reserves the right to audit any revision to costs and prices under this clause.

6.6 Invoicing Instructions

6.6.1 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions including the Client Ref # _____. Invoices cannot be submitted until all work identified in the invoice is completed. Offerors /suppliers are requested to provide invoices in electronic format unless otherwise specified by the Contracting Authority or Project Authority, thereby reducing printed material.

Each invoice must be supported by: *(To be used only where QAC Q applies)*

- (a) a copy of the release document and any other documents as specified in the Contract;

6.6.2 Invoices must be distributed as follows:

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

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

Attention: DLP _____

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

6.6.3 Holdback

A ten percent (10%) holdback will apply on the total price of each vehicles (Items 001 et 002) on any due payment of the said vehicle/equipment. Release of the holdback (10%) is conditional upon receipt and certified acceptance by inspection authority of the said vehicle and all ancillary items as identified in Annex "A" - Pricing.

Applicable Taxes 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 Taxes payable as it was claimed and payable under the previous invoice.

- (a) The original and one (1) copy of the 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.

6.7. Certifications

6.7.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.8 Applicable Laws

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

6.9 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 (2016-04-04) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Pricing;
- (d) Annex "B" - Purchase Description – Truck, Flat Deck, 10 Ton Crane;
- (e) Appendix 1- Technical Information Questionnaire - Truck, Flat Deck, 10 Ton Crane; and
- (f) the Contractor's bid dated _____

6.10 SACC Manual Clauses

A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2012-07-16
A9049C	Vehicle Safety	2011-05-16
A9062C	Canadian Forces Site Regulations	2011-05-16
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian-based Contractors	2014-11-27
D3010C	Delivery of Dangerous Goods / Hazardous Products	2016-01-28
D5510C	Quality Assurance Authority (Department of National Defence) - Canadian-based Contractor	2014-06-26

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	2016-01-28

6.11 Inspection and Acceptance

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

6.12 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 inspection authority or consignee personnel at the final delivery location.

The fuel tanks must be at least half full prior to release of the vehicle to inspection authority or consignee.

6.13 Shipping Instructions - Delivery at Destination

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

6.14 Release Documents - Distribution

The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- a. One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b. Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c. One (1) copy to the Contracting Authority;
- d. One (1) copy to:
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
Attention: _____
- e. One (1) copy to the Quality Assurance Representative;
- f. One (1) copy to the Contractor; and
- g. For all non-Canadian contractors, one (1) copy to:
DQA/Contract Administration
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
E-mail: ContractAdmin.DQA@forces.gc.ca

NOTE: For into-plane refuelling contracts b, c and d above are not required

6.15 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.

6.16 Progress Reports

The Contractor must submit monthly reports, in electronic format, on the progress of the Work, to both the Technical Authority and the Contracting Authority.

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.

6.17 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.

6.18 Material

Material supplied must be new unused and of current production by manufacturer. (2017 model-year or newer).

6.19 Design Changes

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

6.20 Interchangeability

Unless changes during the production run are authorized by Contracting 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.

6.21 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.

6.22 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.

6.23 Vehicle Recall Notices

All vehicle recall notices must be forwarded to:

National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario, K1A 0K2

Attention: (designation and name of TA to be inserted by PWGSC at contract award)

ANNEX "A" - PRICING

Item 001 Truck, Flat Deck, 10 Ton Crane (Firm Quantity)

The Contractor must deliver the vehicle/equipment including the sample manuals, CD of all approved manuals, data summary, warranty letter(s), rust protection warranty, preventative maintenance replacement parts kit list, line setting ticket, special tools list and familiarization training **Note: (Contracting officers must verify with DND which language the training is and how many sessions are required)** in accordance with the attached Annex "B" - Purchase Description – Truck, Flat Deck, 10 Ton Crane

The Truck, Flat Deck, 10 Ton Crane and ancillary items must be delivered to:

CFB Esquimalt

Major Equipment Section
Building 1127
Work Point Barracks
Victoria, BC
V9A 7N2

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

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

Firm unit price of \$ _____ per vehicle, including all equipment and ancillary items, in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

Quantity: One (1)

Item 002 Truck, Flat Deck, 10 Ton Crane (Optional Quantity)

If this option is exercised, the Contractor must deliver the vehicle/equipment including _____ (Check with R/A which deliverables is applicable for the options) in accordance with the attached Annex "B" - Purchase Description – Truck, Flat Deck, 10 Ton Crane.

For Destinations in British Columbia;

Firm unit price of \$ _____ per vehicle/equipment in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

For Destinations in Alberta and Saskatchewan;

Firm unit price of \$ _____ per vehicle/equipment in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

For Destinations in Manitoba;

Firm unit price of \$ _____ per vehicle/equipment in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

For Destinations in Ontario and Quebec;

Firm unit price of \$ _____ per vehicle/equipment in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

For Destinations in New Brunswick and Nova Scotia;

Firm unit price of \$ _____ per vehicle/equipment in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

Quantity: Up to one (1)

Item 003 Familiarization instructions/training - English (Option)

If this option is exercised, the Contractor must provide familiarization instruction/training, in accordance with the attached Annex "B"- Purchase Description – Truck, Flat Deck, 10 Ton Crane.

Firm unit price of \$ _____ in accordance with Basis of Payment Type 2 (as detailed at Clause 6.5.1 Basis of Payment).

Quantity: up to one (1)

Item 004 Familiarization instructions/training - French (Option)

If this option is exercised, the Contractor must provide familiarization instruction/training, in accordance with the attached Annex "B"- Purchase Description - Truck, Flat Deck, 10 Ton Crane.

Firm unit price of \$ _____ in accordance with Basis of Payment Type 2 (as detailed at Clause 6.5.1 Basis of Payment).

Quantity: up to one (1)

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

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

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

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

Estimated cost: \$(to be inserted by PWGSC if an option is exercised)
Familiarization Instruction/Training, for Travel and Living expenses, Delivered Duty Paid at destination, in accordance with Clause 6.5.1, Basis of Payment Type 3.

Quantity: up to one (1)

o



NOTICE

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

AVIS

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

1. SCOPE

1.1 **Scope** - This Purchase Description describes the requirements for a Class 8 truck 6x4, equipped with a 6.7 m (22 Foot) flat deck, with removable sides and a 9,072 kg (10 USt) crane system.

1.2 **Instructions** - The following instructions apply to this specification.

- (a) Requirements, which are identified by the word "**must**", are mandatory. Deviations will not be permitted;
- (b) Requirements identified with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**must**" or "will" are not used, the information supplied is for guidance only;
- (d) Where a standard is specified and the Contractor has offered an Equivalent, that Equivalent standard **must** be supplied by the Contractor;
- (e) Where a technical certification is referred to in this specification, a copy of the certification or an acceptable Proof of Compliance **must** be supplied for the vehicle when requested by the Technical Authority; and
- (f) While the SI system is used as the primary system of measurement to define requirements of this specification, both the SI system and the standard system for this product may be indicated. Conversion from one system of measurement to the other may not be exact.

1.3 Definitions

- (a) "Provided" means "provided and installed";
- (b) "Technical Authority" means the official responsible for the technical content of this requirement;
- (c) "Equivalent" means a standard, means, or component type, which the Technical Authority has approved for this requirement as meeting the specified requirements for fit, form, function and performance;
- (d) "Commercially Equipped" means that the vehicle is provided in its standard commercial configuration with no additional government-specific requirements;
- (e) "Curb Weight" (CW) means the weight of the fully equipped vehicle. The curb weight includes the cab and chassis, all attached accessories, equipment, fuel, lubricant and coolants. The Curb Weight does not include the Payload, the weight of the passengers or their personal kit and equipment;
- (f) "Payload" means the maximum cargo load carrying capacity of the vehicle;
- (g) "Gross Vehicle Weight" (GVW) means the sum of the Curb Weight, the weight of a driver and passenger (80 kg per person) and the weight of their personal kit and equipment and the Payload. The GVW cannot exceed the Gross Vehicle Weight Rating (GVWR);
- (h) "Gross Vehicle Weight Rating" (GVWR) means the maximum operating weight of the vehicle as stated by the manufacturer;
- (i) "Gross Combined Weight Rating" (GCWR) means the maximum allowable combined weight of the vehicle, with passengers and equipment in the vehicle and the Payload plus the weight rating of the trailer and the payload in the trailer;
- (j) "Cab and Chassis" means the vehicle configuration before the addition of any features and accessories;
- (k) "Gross Axle Weight" (GAW) means the maximum load on an axle with the vehicle fully loaded; and
- (l) "Gross Axle Weight Rating" means the load capacity of an axle.

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

SAE Standards

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

Motor Vehicle Safety Act (MVSA)

Government of Canada / Transport Canada,
<http://www.tc.gc.ca/eng/act-regulations/regulations-crc-cl038htm>

Hazardous Products Act

Government of Canada / Department of Justice
<http://laws-lois.justice.gc.ca/eng/acts/H-3/>

Federal Standard 595C

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

TRA Year Book

Tire and Rim Association Inc.,
3200 West Market Street, Akron, Ohio, 44313

3. **REQUIREMENTS**

3.1 **Standard Design**

- (a) The vehicle **must** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **must** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (c) The vehicle **must** conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and emissions in effect in Canada at the time of manufacture; and
- (d) The vehicle and accessories **must** operate in accordance with all OEM (original equipment manufacturer) rated capacities and performance specifications.

3.2 **Operating Conditions**

3.2.1 **Weather** - The vehicle **must** start and operate under the extremes of weather conditions found in Canada in temperatures ranging from -40 to 40°C.

3.2.2 **Terrain** - The vehicle **must** operate in all season, all-weather operations on highways and secondary roads.

3.3 **Vehicle Safety Regulations**

- (a) The vehicle **must** meet the provisions of the Canada Motor Vehicle Safety Act;
- (b) The completed vehicle **must** be provided with a Safety Compliance Certification Label with a National Safety Mark (NSM); and
- (c) All systems and components **must** be safe and easy to use by a 5-95th percentile male or female under all operating conditions.

3.4 **Performance**

- (a) The vehicle **must** have a road speed of at least 105 km/h operating at the GVWR on a flat, level road;
- (b) The vehicle **must** have a gradability, at a speed of at least 6.5 km/h (4 mph), of at least 32 %, when operating at the GVWR;
- (c) The vehicle **must** have a gross engine horsepower of at least 400 HP (298 kW) in order to achieve the specified performance (paragraphs 3.4 (a) and 3.4 (b));
- (d) The vehicle **must** have a GVWR of at least 25,855 kg(57,000 lbs);
- (e) The vehicle **must** have a payload capacity of at least 9,072 kg (20,000 lbs); and
- (f) The vehicle **must** have a towed load capacity of at least 4,536 kg (10,000 lbs) trailer.

3.5 **Vehicle Cab - Extended Day Cab**

- (a) **Cab** - The vehicle **must** be provided with an air suspended extended cab;

- (b) **Cab Features**

- i The extended cab **must** be provided with 2 doors;

- ii The extended cab **must** be provided with at least two (2) steps per door;
- iii The extended cab **must** be provided with seating for two(2)(driver and co-driver);
- iv The extended cab **must** be provided with space behind the driver and passenger seat for additional storage;
- v Each outboard seating position **must** be provided with retractable shoulder/lap belt assemblies;
- vi The extended cab **must** be provided with tinted side windows;
- vii The extended cab **must** be provided with windshield wipers with at least two (2) continuous speeds and one (1) intermittent speed;
- viii The windshield wipers **must** be provided with arctic wiper blades;
- ix The extended cab **must** be provided with two (2) rotating and pivoting interior sun visors mounted above the front windshield and usable on the side windows;
- x The extended cab **must** be provided with an armrest on both front doors;
- xi The extended cab **must** be provided with coat hooks;
- xii The extended cab **must** be provided with black rubber floor covering;
- xiii The extended cab **must** be provided with powered windows;
- xiv The extended cab **must** be provided with a visibility window in the front lower portion of the right hand door or a look-down mirror mounted at the top of the right hand front door;
- xv The extended cab **must** be provided with an exterior sun visor mounted above the windshield;
- xvi The extended cab **must** be provided with an air horn;
- xvii The extended cab **must** be provided with a stone and bug deflector mounted on the front hood; and
- xviii The extended cab **must** be provided with powered door locks on all doors.

(c) **Seats**

- i The vehicle **must** be provided with push button controlled air suspension driver and co-driver bucket type seats that operate from the vehicle's air system; and
- ii The vehicle **must** be provided with high-back driver and co-driver medium to dark coloured cloth upholstered seats.

(d) **Mirrors**

- i A rear view aerodynamic mirror system **must** be provided on the exterior of each side of the vehicle cab providing the operator with clear visibility to the sides and rear of the vehicle;
- ii Each mirror **must** be provided with a convex mirror section;
- iii The convex mirror glass **must** be separately replaceable;
- iv The mirrors glass on both sides of the vehicle **must** be power adjustable from an in-cab control accessible to the operator;
- v The convex mirrors **must** be provided with heating defrost elements;
- vi Mirror heating **must** be activated by an in-cab control accessible to the operator; and
- vii Heating elements **must** be replaceable.

(e) **Tripod Mirror** - Tripod or fender integrated mirrors **must** be provided on the right and left hand front fenders;

(f) **Air Conditioning** - The vehicle **must** be provided with an air conditioning system;

(g) **Radio**

- i The vehicle **must** be provided with an AM/FM radio with a CD player; and
- ii The radio **must** turn off automatically when the vehicle ignition is turned off.

3.6 **Chassis** - The vehicle **must** be provided with a High Strength Steel vehicle frame having a resisting bending moment ("**FRAME RBM**") of at least 38,020 kg-m (3,300,000 lbs-in).

3.6.1 **Suspension**

- (a) The vehicle **must** be provided with a front and rear leaf spring suspension;
- (b) The suspension system **must** be provided with shock absorbers at each wheel station;
- (c) The rear suspension system **must** be provided with immediate response, automatic height control valves or Equivalent; and
- (d) The rear suspension system **must** be provided with suspension stabilizers or Equivalent.

3.7 **Engine** - The vehicle **must** be provided with a diesel engine.

3.7.1 **Engine Components**

(a) **Engine Air Filter**

- i The engine air filter **must** be a replaceable dry-type with at least two stages; and

- ii The vehicle air intake system **must** be provided with a filter restriction gauge, mounted inside the vehicle cab, which is visible from the driver's position.
- (b) The engine **must** be provided with an engine coolant suitable for temperatures down to -40° C;
- (c) The engine **must** be provided with an exhaust system;
- (d) The exhaust system **must** have a vertical stack that clears the cab roofline; and
- (e) The exhaust system **must** be provided with an exhaust elbow at the exhaust exit.

3.7.2 **Fuel Reservoirs**

- (a) The vehicle **must** have a total fuel capacity of at least 378 litres;
- (b) The fuel tank filler areas **must** be marked to identify the required vehicle fuel; and
- (c) The caps for fuel tanks **must** be lockable.

3.7.3 **Engine Cold Weather Aids**

- (a) The engine **must** be provided with cold weather starting aids to enable the engine (operating with winter grade fuels/oils) to be started at temperatures down to -40° C. The engine starting aids may include but are not limited to: glow plug(s) and intake air grid heater;
- (b) The engine **must** be provided with 110-Volt AC powered engine cold start heaters (oil/coolant) with the capacity as recommended by the engine manufacturer;
- (c) The battery **must** be provided with a 110-volt AC powered battery blanket; and
- (d) The engine **must** be provided with a heated, fuel filter/water separator to preheat diesel fuel prior to starting.

3.8 **Vehicle Driveline**

3.8.1 **Automatic Transmission**

- (a) The vehicle **must** be provided with an automatic transmission;
- (b) The transmission **must** have at least six (6) forward speeds and one reverse speed;
- (c) The transmission **must** be provided with a neutral start safety switch;
- (d) The transmission **must** be equipped with an instant release electrically operated, programmable electronic idle control;
- (e) The high idle control **must** be connected as not to allow the high idle to engage when transmission is in gear and the parking is applied; and
- (f) The vehicle **must** have an external transmission oil cooler.

3.8.2 **Axles**

- (a) The vehicle **must** be provided with a Manufacturer's Standard I-Beam front axle;

- (b) The vehicle **must** be provided with a single reduction, rear drive axle; and
- (c) The rear axle **must** be provided with a driver controlled differential lock.

3.9 **Brake System**

- (a) The vehicle **must** be provided with full air actuated service brakes and spring actuated parking brakes;
- (b) The brake system **must** be provided with an anti-lock (ABS) brake system;
- (c) The brake system **must** be provided with air disc brakes on all axles with automatic slack adjusters;
- (d) The brake system **must** be provided with an air compressor with a capacity of at least 0.51 cubic metres per minute (18 cfm);
- (e) The brake system **must** be provided with a wet air reservoir with a quick connect fitting for the connection of an air-line;
- (f) The wet air reservoir **must** be provided with a pull type drain that is accessible from beside the vehicle;
- (g) The brake system **must** be provided with an automatic air dryer with a heated dump valve;
- (h) The brake system **must** be provided with dust shields at each wheel station;
- (i) The brake system **must** be provided with emergency brake chambers on all rear axles;
- (j) The brake system **must** be provided with a trailer brake control mounted on or near the steering column;
- (k) Two (2) air-lines **must** be provided for connection to the trailer air system; and
- (l) The service air-line **must** be blue and the emergency air-line red.

3.10 **Steering**

- (a) The vehicle **must** be provided with a power assisted steering system; and
- (b) The steering system **must** be provided with a telescopic/tilt steering column.

3.11 **Wheels and Tires**

- (a) The front axle **must** be provided with single wheels;
- (b) The rear axle **must** be provided with dual wheels;
- (c) The front axle **must** be provided with tires with mud and snow treads;
- (d) The rear axle **must** be provided with tires with mud and snow treads;
- (e) All tires provided **must** be steel-belted, tubeless and radial;
- (f) All wheels provided **must** be hub piloted, disc wheels;

- (g) All wheel stations **must** be provided with loose wheel nut indicators;
- (h) The wheel assemblies **must** have a capacity equal to or greater than the load applied, at the top vehicle speed (paragraph 3.4 (a));
- (i) The wheel assemblies **must** be assembled in accordance with the tire and rim manufacturer's specifications;
- (j) The vehicle **must** be provided with a spare tire assembly with the same rim and tire as those mounted on the front axle;
- (k) A dedicated and secure storage location for the spare tire assembly **must** be provided on the vehicle;
- (l) The vehicle **must** be provided with rear mud flaps mounted on angle type spring-loaded hangers or **Equivalent**; and
- (m) The vehicle **must** be provided with tire changing tools including a heavy-duty jack capable of lifting any corner of the loaded vehicle.

3.12 **Controls** - The vehicle **must** be provided with a cruise control system with a fast idle feature.

3.13 **Instruments** - All dash board gauges and readouts **must** indicate metric units.

3.14 **Electrical System**

- (a) The electrical system **must** be provided with an alternator with an output of at least 200 amperes;
- (b) The electrical system **must** be provided with maintenance-free batteries with a combined rating at least 2,500 cold cranking amperes (CCA);
- (c) The electrical system **must** be provided with a master disconnect switch to isolate the vehicle batteries from the system;
- (d) The vehicle **must** be provided with a tailgate master disconnect switch inside the cab;
- (e) The wiring **must** be protected by insulating grommets where passing through metal;
- (f) The vehicle **must** be provided with a minimum of four (4) knockouts for extra switches on the dashboard;
- (g) The electrical system **must** include a backup alarm to alert personnel when the vehicle transmission is placed in reverse;
- (h) The vehicle **must** have an external battery two pin slave start receptacle;
- (i) The extended cab **must** be provided with an AC inverter to convert power from the truck's batteries to 120 V AC with a minimum of 15 Amp capacity located in cab w/an inside outside connection on the passenger side of vehicle;
- (j) The AC inverter **must** be capable of supplying 2500 Watts continuous power with a surge capacity of at least 3500 Watts;
- (k) The AC inverter **must** be protected from overload by an isolation switch an fuses or circuit breakers;

- (l) The AC inverter **must** have a low-voltage indicator/alarm and shutdown feature to prevent draining the vehicle batteries; and
- (m) The extended cab **must** be provided with at least two (2) 12V plug-ins with one located inside extended crew cab and one located outside of the extended cab.

3.15 Lighting

- (a) The vehicle **must** be provided with halogen headlights;
- (b) The vehicle **must** be provided with LED clearance lights, stop lights, turn signal lights, fog lights, tail-lights and reverse lights;
- (c) The vehicle **must** be provided with two (2) rear-facing working LED lights mounted on each side of the bulkhead with the switch mounted in the dash; and
- (d) The vehicle **must** be provided with two amber-coloured LED strobe lights mounted on the top of the bulkhead rack with the switch mounted on the dash.

3.16 Hydraulic System

3.16.1 Hydraulic Features and Accessories

(a) Basic Hydraulic System

- i The vehicle **must** be provided with the manufacturer's hydraulic system, complete with all components required for the operation of the hydraulic actuators provided, including power take-off, pump, reservoir, filters, controls and control valves;
- ii The hydraulic reservoir **must** be provided with a visual level indicator;
- iii All hydraulic cylinders **must** be provided with rods that are hard chrome plated or nitrate treated rods;
- iv Hydraulic hoses passing through metal components **must** be protected using rubber grommets or **Equivalent**;
- v The spacing between levers **must** be sufficient to allow an operator wearing gloves to activate them; and
- vi The vehicle **must** be provided with a power take-off (PTO) suitable for installation on the vehicle transmission.

(b) Hydraulic Oil Heater

- i The vehicle **must** be provided with a hydraulic oil heater;
- ii The heater **must** be provided with a thermostatic control system to prevent overheating of the hydraulic oil; and
- iii The hydraulic oil heater may use heat from the cooling system.

- 3.17 **Lubricants and Hydraulic Fluids**
- (a) The vehicle **must** operate using synthetic non-proprietary lubricants and hydraulic fluids; and
 - (b) Grease fittings **must** conform to SAE J534.
- 3.18 **Paint**
- (a) The vehicle **must** be painted using the manufacturer's commercial painting system;
 - (b) The vehicle **must** be painted gloss white; and
 - (c) The crane **must** be painted using the manufacturer standard paint colour.
- 3.18.1 **Conspicuity Tape**
- (a) Conspicuity tape **must** be provided in accordance with MVSA regulations; and
 - (b) The conspicuity tape **must** be installed horizontally along the side and rear edges of the flat deck.
- 3.18.2 **Corrosion Protection** - The vehicle **must** be provided with a rust protection treatment such as Krown Rust Control, Rust Check or an **Equivalent**.
- 3.19 **Identification** - The vehicle information (manufacturer's name, model, Vehicle Identification Number (VIN) and the GAWR, GVWR and GCWR ratings) **must** be permanently marked in conspicuous and protected locations.
- 3.20 **Warning and Instruction Plates**
- (a) The vehicle **must** be provided with warning and operation instruction plates in accordance with SAE J115; and
 - (b) The plates **must** use graphic symbols, as defined in SAE J1362 or be written in the two (2) official languages (English and French).
- 3.21 **Equipment**
- (a) **Tow Hooks**
 - i The vehicle **must** be provided with frame mounted tow hooks mounted at the front and at the rear; and
 - ii The vehicle **must** be provided with tow hooks and mountings permitting the recovery of the vehicle.
 - (b) **License Plate Holders**
 - i The vehicle **must** be provided with front and rear license plate holders; and
 - ii The rear license plate **must** be illuminated.
 - (c) **Filler Caps** - The vehicle **must** be provided with permanently marked filler caps, which identify the contents using international symbols or in writing using both French and English; and
 - (d) **Mud flaps** - The vehicle **must** be provided with front and rear mud flaps;

(e) **Frame Mounted Storage**

- i The vehicle **must** be provided with two (2) frame mounted aluminum storage compartments;
- ii One (1) compartment, located on the roadside forward of the rear axle, **must** have nominal dimensions of 760 mm x 610 mm x 610 mm(30 x 24 x 24 inches);
- iii One (1) compartment, located on the curbside forward of the rear axle, **must** have nominal dimensions of 760 mm x 610 mm x 610 mm(30 x 24 x 24 inches);
- iv Each compartment **must** have two (2) vertically hinged doors including stainless steel hinges;
- v Each compartment **must** be equipped with stainless steel, flush-mounted slam action latches that can be locked with a padlock (s);
- vi Each compartment **must** have a load capacity of at least 136 kg (300 lbs);
- vii The compartments **must** be of weatherproof construction with anti-return type drainage;
- viii The compartments **must** have the interior walls and floor sprayed with Line-X or **Equivalent**;
- ix A removable, perforated vinyl matting **must** be provided on the floor of each compartment; and
- x The compartments **must** have interior LED lighting mounted in a protected location.

(f) **Dangerous Goods Placard Holders**

- i The vehicle **must** be provided with four (4) aluminum dangerous goods placard holders;
- ii One holder **must** be mounted at the centre of each side of the body, near the bottom;
- iii One holder **must** be mounted at the rear of the body, at the lower curb side corner; and
- iv One holder **must** be mounted on the front of the vehicle on the left side.

(g) **Flat-Deck - 6.7 m (22 Foot)**

- i The vehicle **must** be provided with a flat-deck having a length of at least 6.7 m (22 foot);
- ii The flat deck **must** have a width of at least 2.4 m (8 foot);
- iii The flat deck **must** be capable of sustaining at least 9,072 kg (20,000 lbs) load and being loaded from the sides or top;
- iv The flat deck support structure **must** have structural box channel steel main frame rails, with nominal dimensions of at least 127 by 48 mm (5 by 1-7/8 inches);

- v The flat deck support structure **must** be supported by "I"-beam or "C"-channel type cross-members with a section height of at least 101.6 mm (4 inch) on a maximum of 305 mm (12 inch) centres;
- vi The rear 1.83 m (6 feet) of the rear flat deck support structure **must** have cross-members spaced at no more than 203 mm (8 inch) centres to accommodate the initial forklift axle load when loading;
- vii Each cross-member **must** have at least one support gusset welded to the main frame rails;
- viii The flat deck support structure **must** have a braced rear protective frame (ICC bumper) constructed of at least 76 mm (3 inches) channel steel; and
- ix The flat deck support structure **must** be mounted using a full-length hardwood spacer;
- x The flat deck floor **must** withstand the operation of at least 2,722 kg (6000 lbs) forklift;
- xi The flat deck **must** be provided with a floor made of a tongue and groove, kiln dried or seasoned hardwood, that is at least 35 mm(1.4 inch) thick material or **Equivalent**;

xii **Winch Binders & Sliding Tracks**

- 1. The flat deck **must** be provided with four (4) 2,721 kg (6,000 lb) winch binders, along the curb side of the deck that are suitable for use with 52 mm (2 inch) straps;
- 2. The winch binders **must** have a strap length of at least 9.1 m (358 inches);
- 3. Winch binders **must** be mounted at no more than 609 mm (24 inches) spacing along the deck side rail with a space of no more than 305 mm (12 inches) from the front and rear of the deck; and
- 4. The flat deck **must** be provided with four winch binder sliding tracks on the curb side of the deck complete with at least six (6) ratchet type sliding winch binders and 102 mm (4 inch) cargo straps.

xiii **Tie Down Rings**

- 1. The flat deck **must** be provided two rows of six evenly spaced, 2,275 kg capacity, recessed (flush floor mounted), tie-down rings;
- 2. The tie-down rings **must** be "D" shaped with drain holes, bolted to the floor and positioned as close as possible to the sides of the flat deck, but not more than 203 mm (8 inch) from the sides; and
- 3. Holes **must** be drilled in the deck stanchion locations to prevent water and dirt accumulation, before painting.

- xiv The flat deck **must** be provided with heavy-duty rubber bumpers 102 mm (4 inch) deep installed at the rear corners;
- xv The flat deck **must** have reinforced mounting locations for the removable sides;
- xvi All walking surfaces **must** be covered with a coarse non-skid coating for operator's safety;
- xvii The vehicle **must** have important components such as the swing motor, control valves, and display equipment protected from road debris and accumulation of snow, ice, branches and debris;

xviii **Bulkhead**

1. The flat deck **must** be provided with a permanently mounted bulkhead rack with window opening aligned with the rear cab window;
2. The bulkhead rack **must** be constructed using material of at least 76 mm (3 inch) steel channel frame braced to the platform, covered with at least 12 gauge steel and H.D. expanded metal mesh;
3. The window opening in the bulkhead rack **must** be covered with expanded metal mesh;
4. The bulkhead **must** be provided with two (2) recessed tie-down rings;
5. The tie-down rings **must** have a capacity of at least 2,275 kg (5000 lbs); and
6. The tie-down rings **must** be mounted at least 600 mm above the deck and as close to the exterior sides as possible.

- xix **Boom Rest** - The vehicle **must** have a boom rest;

xx **Fire Extinguisher**

1. An ABC rated fire extinguisher, minimum 2,3 kg (5 lbs) complete with a quick release mounting bracket **must** be supplied; and
2. The bracket **must** be mounted on the rear left side of the bulkhead.

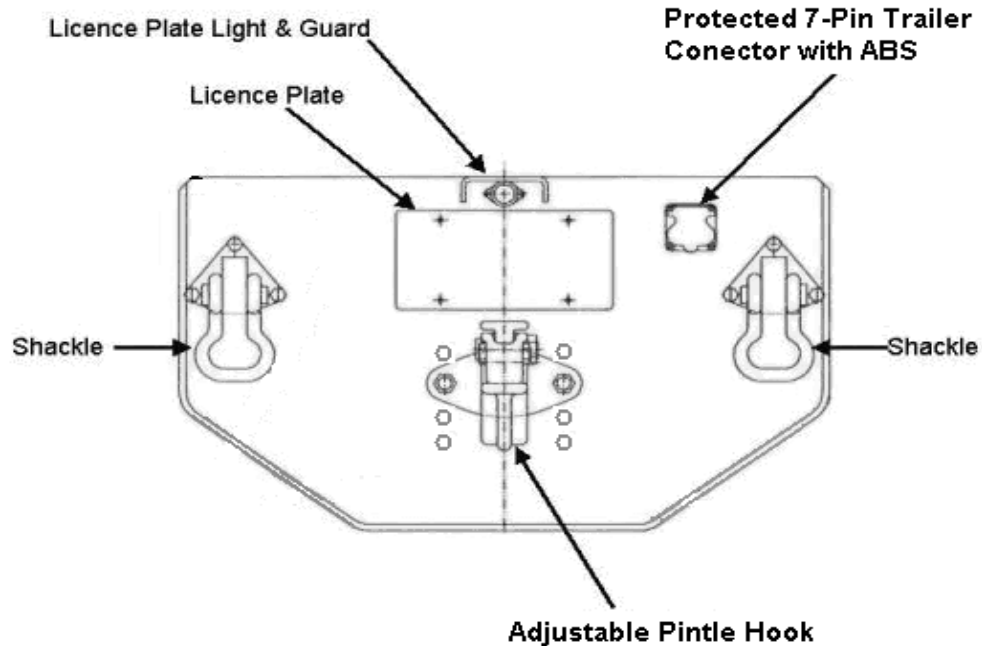
xxi **Removable Sides**

1. The flat-deck must be enclosable by removable stake sides;
2. The sides must have side racks held using removable extruded aluminum sections 5 by 10 cm (2 by 4 inches);
3. The sides **must** have nominal height of 91.4 cm (36 inches);
4. The sides **must** have side racks constructed of spaced panels of solid hardwood boards with a thickness of at least 15 mm (5/8 inch);

5. The sides **must** have heavy-duty hooks and eyes for joining adjacent racks; and
6. Side racks **must** be removable and firmly securable to avoid accidental release or movement while in transit.

(h) **Pintle Hook Assembly**

- i A duplex frame mounted pintle hook assembly **must** be provided at the rear of the vehicle;
- ii The pintle hook assembly **must** be a heavy-duty swivel type Holland - Model PH 30RP or **Equivalent** with model TH-850 trailer safety chain towing shackles or **Equivalent**; and
- iii The pintle hook assembly **must** have a 2,721 kg(6000 lbs) minimum vertical load rating while pulling a trailer with a minimum Gross Trailer Weight of 13,607 kg (20,000 lbs);
- iv The pintle hook center **must** be mounted at a nominal height of 762 mm (30 inches)
- v The trailer brake control **must** be mounted at the operator's station on or near the steering column;
- vi The pintle hook assembly **must** be provided with one (1) 7 pin trailer connection, including ABS brake control;
- vii Safety chains shackles **must** be provided on each side of the pintle hook;
- viii The safety chains shackles **must** have a drawbar pull capacity of at least 4,500 kg (9, 920 lbs);
- ix The towing capacity **must** be clearly marked on the rear face of the hitch receiver assembly;
- x A pintle mounting plate **must** be installed on the vehicle;
- xi The plate used for the pintle hook installation **must** be steel;
- xii Stress analysis **must** be conducted to confirm the ability of the plate to withstand the specified towed load;
- xiii The analysis result **must** be supplied to the Technical Authority;
- xiv Submission date of the stress analysis will be determined in the Pre-Production Meeting (PPM); and
- xv For an indication of the general layout of the pintle hook assembly see the following figure.



General Arrangement - Pintle Hook Assembly

(i) Crane System

- i The vehicle **must** be provided with a 9,072 kg (10 ton) crane system mounted on the chassis directly behind the cab in accordance with the manufacturer's recommendations;
- ii The crane **must** lift a load of at least 9,072 kg (10 ton) at a 20 ft radius;
- iii The crane **must** lift at least 3175 kg (7000 lb) at an operating radius of 4.57 m (15 feet) from the axis of rotation through the full 360 degree range;
- iv The crane **must** have a non-continuous rotation of at least 360 degrees;
- v The crane **must** stow itself across the vehicle by folding within a width of no more than 2,590 mm;
- vi The crane **must** conform to all applicable SAE (including certification test under SAE J765), ANSI & OSHA requirements and regulations;
- vii Results of certification test **must** be provided on request;
- viii Boom
 - 1. The crane **must** be provided with a three section hydraulically telescoping boom;
 - 2. The boom **must** have a nominal extended length of 14 metres (46 feet) at an operating radius of 1.52 m (5 feet); and

3. The boom **must** have a mechanical boom angle indicator;

ix

Hook

1. The boom crane **must** be provided with a hook that is capable of the maximum crane load; and
2. The hook **must** be provided with a latch.

x

Stabilizers

1. The crane **must** be provided with hydraulic stabilizers mounted behind the rear tires and an additional stabilizer mounted to the front of the vehicle
2. The stabilizers **must** be capable of supporting the maximum overturning moment of the crane;
3. The stabilizers **must** lower to at least 300 mm (12 inches) below the vehicle ground level;
4. The stabilizers **must** be self-stowing;
5. The stabilizers **must** have a stowed road clearance of at least 200 mm (8 inch);
6. The stabilizers **must** be provided with pivoting foot plates; and
7. Each foot plate **must** be provided with a load spreader plate.

xi

Load Spreader Plates

1. The load spreader plates **must** be made from 50 mm (2 inch) wood or an **Equivalent** light weight material;
2. The load spreader plates **must** spread the load over an area of at least 1.22 square meters (4 square foot);
3. The load spreader plates **must** be provided with a rope handle or **Equivalent**; and
4. Spreader plate storage compartments **must** be provided with an accessible storage location on the vehicle;

xii

The boom crane **must** be provided with an in-cab indicator to show when the crane or stabilizers are not properly stowed;

xiii

Hoist

1. The hoist **must** be in accordance with Power Crane and Shovel Association Standards (PCSA) Paragraph 4.03; and
2. The main hoist **must** have a power up and down capability with an automatic brake mechanism and hoist rotation indicator.

xiv

Capacity Charts

1. The vehicle **must** be provided with load capacity charts indicating all safe operating load capacities in both metric and imperial units; and
2. One copy of the charts **must** be mounted in a conspicuous location.

xv

Load Moment Indicator

1. The crane controls **must** have a Load Moment Indicator (LMI);
2. The LMI **must** include all functions to maintain safe operating conditions; and
3. Operator intervention to maintain safe operating conditions **must** not be required. It is preferred to have a variable intensity back-lit LCD display.

xvi

Craning Control

1. Crane controls **must** be located within crane operator's reach;
2. Crane **must** be equipped with a corrosion proof console;
3. The console **must** be tilted to the right or left side of the crane as needed and stowed in the center position for transport;
4. The console **must** include durable weather-proof capacity, instruction and safety placards appropriately describing the crane function;
5. The crane controls **must** include all controls and indicators for safe crane operation including controls for the boom, hoist, telescoping, outriggers and turntable;
6. The crane controls **must** have an anti-two-block device;
7. The crane **must** have a crane function power switch which is used to disable controllers and prevent inadvertent crane movement; and
8. The crane **must** be provided with a set of control levers for the crane in a protected location accessible to an operator on the driver's side of the vehicle.

xvii

Remote Control

1. The crane **must** be provided with a remote control;
2. The remote control can be operated either wireless or attached to the vehicle through a cable;
3. The remote control cable **must** have a minimum length of 10 metres;
4. The remote control **must** control all crane operations;

5. The remote control **must** allow the operator to control the crane while wearing winter apparel including work/winter gloves;
6. The remote control **must** be provided with an emergency stop button;
7. The remote control **must** be operable under all lighting conditions;
8. The remote control **must** be provided with a button to activate an alert horn; and
9. The remote control **must** be provided with a waist belt and a neck strap.

4. Integrated Logistic Support

4.1 Contractor Documentation and Logistic Items

4.1.1 Items Supplied to Technical Authority

(a) Manuals for Approval

- i The Contractor **must** supply access to a set of manuals for the vehicle, in digital format including the operator, parts and maintenance (shop repair) manuals;
- ii The set of manuals **must** include manuals for all the specified accessories and features. Accessory manuals may be included as supplements to the vehicle/equipment manuals;
- iii Digital copies **must** be functional without the requirement for a password or an auto-run installation procedure;
- iv Manuals will not be returned; AND
- v The Contractor **must** supply responses to the Technical Authority's comments.

(b) Photographs and Line Drawings

- i The Contractor **must** supply two (2) digital colour photographs, one (1) left-front three-quarter view, and one (1) right-rear three-quarter view of each configuration/model;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle/equipment **must** be supplied. Brochure line drawings are acceptable;
- iv Photographs **must** have a plain background;
- v Photographs **must** be in a JPEG (Joint Photographic Experts Group) format; and
- vi Photographs **must** have a resolution of at least eight (8) Mega pixels.

(c) Data Summary

- i The Contractor **must** supply a bilingual data summary for the vehicle, with vehicle/equipment data (including accessories and features) and a vehicle/equipment picture;
- ii The Technical Authority will supply a bilingual template of a data summary to the Contractor;
- iii The Contractor **must** supply a digital copy (MS Word) of the completed data summary for approval; and
- iv The Contractor **must** supply responses to the Technical Authority's comments.

(d) **Training Plan(s)**

- i. The Contractor must supply a training plan for approval for each of the training courses listed in paragraph 4.2, to the Technical Authority; and
- ii. The Contractor must provide a signed "PROOF OF FAMILIARIZATION" copy to the Technical Authority for each trained base.

(e) **Warranty Letter**

- i. The Contractor must supply a copy of the warranty letter for each vehicle/equipment delivered; and
- ii The Technical Authority will supply a bilingual warranty letter template to the Contractor after the pre-production meeting (PPM).

4.1.2 **Items Supplied with Each Vehicle/Equipment**

- (a) **Operator's Manuals** - The Contractor **must** supply an approved bilingual operator's manual in both paper and digital format with each vehicle/equipment delivered;
- (b) **Warranty Letter** - The Contractor **must** supply a copy of the warranty letter with each vehicle/equipment delivered;
- (c) **Rust Protection Warranty** - A copy of the warranty from the rust protection provider **must** accompany each vehicle/equipment;
- (d) **Line Setting Ticket** - A copy of the production line setting ticket with supplemental listing **must** accompany each completed vehicle/equipment;
- (e) **Digital Maintenance and Parts Manual - English**
 - i The Contractor **must** supply the approved, searchable, digital, maintenance and parts manuals required for the vehicle/equipment, features and accessories on a searchable CD/DVD-ROM; and
 - ii The contractor may supply this deliverable as a bilingual package.

4.2 **Training**

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

- i The Contractor **must** supply a familiarization course in English, at the delivery destination, optimized for operators and technicians who are qualified on the vehicle/equipment type but require training on newer or unique features and sub-systems of the delivered model;
- ii **Curriculum**
 - 1. The familiarization course **must** include operation and maintenance segments;
 - 2. The operator's familiarization segment **must** include safety precautions to be observed while operating and servicing the vehicle/equipment, vehicle/equipment operating characteristics, pre-

operating and shutdown procedures and daily/weekly operator servicing procedures;

3. The operator's familiarization **must** include sub-systems including automatic grease system and pre-heaters; and
 4. The technician's familiarization **must** include diagnostics, trouble shooting and operation of any special tools and test equipment (if any).
- iii The familiarization course **must** have a minimum duration of eight (8) hours, divided into four (4) hours for operators and four (4) hours for technicians;
 - iv The familiarization course **must** accommodate up to eight (8) personnel; four (4) operators and four (4) technicians;
 - v The date for the familiarization course **must** be arranged with the Technical Authority;
 - vi After completion of the familiarization course, the Contractor **must** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
 - vii The Technical Authority will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(b) **Training Familiarization - French**

- i The Contractor **must** supply a familiarization course in French, at the delivery destination, optimized for operators and technicians who are qualified on the vehicle/equipment type but require training on newer or unique features and sub-systems of the delivered model;
- ii **Curriculum**
 1. The familiarization course **must** include operation and maintenance segments;
 2. The operator's familiarization segment **must** include safety precautions to be observed while operating and servicing the vehicle/equipment, vehicle/equipment operating characteristics, pre-operating and shutdown procedures and daily/weekly operator servicing procedures;
 3. The operator's familiarization **must** include sub-systems including automatic grease system and pre-heaters; and
 4. The technician's familiarization **must** include diagnostics, trouble shooting and operation of any special tools and test equipment (if any).
- iii The familiarization course **must** have a minimum duration of eight (8) hours, divided into four (4) hours for operators and four (4) hours for technicians.
- iv The familiarization course **must** accommodate up to eight (8) personnel; four (4) operators and four (4) technicians;

- v The date for the familiarization course **must** be arranged with the Technical Authority;
- vi After completion of the familiarization course, the Contractor **must** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- vii The Technical Authority will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.



Figure 1



Figure 2



Figure 3



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods.

AVIS

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

This questionnaire covers technical information, which **must** be supplied for evaluation of the configurations of the vehicle offered.

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

Bidder is required to indicate the document name/title and page number where the **Proof of Compliance** can be found.

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

CONTRACTOR INFORMATION

Contractor Name _____

Date _____

Final Stage Manufacturer - Proof of Compliance

Name of Contractor _____

Address _____

Proof of Registration - Document _____



Substitutes/Alternatives

Are any substitutes/alternatives offered as ***Equivalent***?

YES ☐ NO ☐

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

NOTE: *Proof of Compliance must* be supplied for all items offered as a substitute or alternative.

SPECIFICATION PARAGRAPHS**Truck, Flat Deck - Proof of Compliance**

Chassis - Make _____ - Model _____

3.4 Performance - Proof of Compliance

Computer generated performance analysis is document _____
Proof of Compliance for performance requirements **must** be provided using a computer generated performance analysis on third party software. The analysis **must** demonstrate top road speed, vehicle gradability at 3.2 km/h and horsepower required. The specified payload capacity and the specified towed load **must** be used in the computer generated performance analysis.

(e) Payload achieved on page ____ of document _____

3.6 Chassis - Proof of Compliance

Frame RBM on page ____ of document _____

3.6.1 Suspension - Proof of Compliance

Front suspension - Make _____ - Model _____ - Rating _____

Front suspension details on page ____ of document _____

Rear suspension Make _____ - Model _____ - Rating _____

Rear suspension details on page ____ of document _____

3.7 Engine - Proof of Compliance

Make _____ - Model _____

Details on page ____ of document _____

3.7.2 Fuel Reservoir(s)(a) Fuel reservoir(s) - **Proof of Compliance**

Capacity on page ____ of document _____

3.8.1 Automatic Transmission - Proof of Compliance

Make _____ - Model _____

(b) Details on page ____ of document _____

3.8.2 Axles - Proof of Compliance

Front axle - Make _____ - Model _____ - Rating _____

Front axle details on page ____ of document _____

Rear axle Make _____ - Model _____ - Rating _____

Rear axle details on page ____ of document _____

3.11 Wheels and Tires - Proof of Compliance

(h) Front tire - Make _____ - Model _____ - Rating _____

Front tire details on page ____ of document _____

Rear tire Make _____ - Model _____ - Rating _____

Rear tire details on page ____ of document _____

3.14 Electrical System(a) Alternator - **Proof of Compliance**

Output on page ____ of document _____

(b) Battery - **Proof of Compliance**

Quantity _____ - Make _____ - Model _____

Battery cold cranking amperes on page ____ of document _____

3.21 Equipment(g) **Flat Deck - 22-Foot - Proof of Compliance**

Flat deck line drawing with dimensions on page ____ of document _____



TECHNICAL INFORMATION QUESTIONNAIRE
10 TON TRUCK, FLAT DECK, WITH CRANE

- (h) Pintle Hook and Trailer Brake Control - Proof of Compliance
Make _____ - Model _____ - Capacity _____
- (i) Crane - Proof of Compliance
Make _____ - Model _____ Capacity _____
ii Crane lift on page _____ of document _____
iv Crane rotation on page _____ of document _____
v Crane stowed width on page _____ of document _____



DEFINITIONS

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

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

