

**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
**800 Burrard Street, 2nd Floor  
800, rue Burrard, 2e étage  
Vancouver, BC V6Z 0B9  
Bid Fax: (604) 775-7526**

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

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

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

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

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

**Comments - Commentaires**

|  |   |
|--|---|
| <b>Title - Sujet</b><br>Front End Loader   |   |
| <b>Solicitation No. - N° de l'invitation</b><br>T7054-130016/B   | <b>Date</b><br>2013-11-22   |
| <b>Client Reference No. - N° de référence du client</b><br>T7054-130016  |   |
| <b>GETS Reference No. - N° de référence de SEAG</b><br>PW-\$VAN-532-7138   |   |
| <b>File No. - N° de dossier</b><br>VAN-3-36133 (532)   | <b>CCC No./N° CCC - FMS No./N° VME</b>                              |
| <b>Solicitation Closes - L'invitation prend fin<br/>at - à 02:00 PM<br/>on - le 2013-12-19</b>   | <b>Time Zone<br/>Fuseau horaire</b><br>Pacific Standard Time<br>PST |
| <b>F.O.B. - F.A.B.</b><br><b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>          |   |
| <b>Address Enquiries to: - Adresser toutes questions à:</b><br>Takasaki, Alan H.   | <b>Buyer Id - Id de l'acheteur</b><br>van532                        |
| <b>Telephone No. - N° de téléphone</b><br>(604) 775-7605 ( )   | <b>FAX No. - N° de FAX</b><br>(604) 775-7526                        |
| <b>Destination - of Goods, Services, and Construction:<br/>Destination - des biens, services et construction:</b><br>TC - Penticton Airport, 300 Airport Road, Penticton, BC V2A 8X1 |   |

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

Public Works and Government Services Canada - Pacific  
Region  
800 Burrard Street, 12th Floor  
800, rue Burrard, 12e étage  
Vancouver, BC V6Z 0B9

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

## **TABLE OF CONTENTS**

### **PART 1 - GENERAL INFORMATION**

1. Security Requirement
2. Requirement
3. Debriefings

### **PART 2 - BIDDER INSTRUCTIONS**

1. Standard Instructions, Clauses and Conditions
2. Submission of Bids
3. Enquiries - Bid Solicitation
4. Applicable Laws

### **PART 3 - BID PREPARATION INSTRUCTIONS**

1. Bid Preparation Instructions

### **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

1. Evaluation Procedures
2. Basis of Selection

### **PART 5 - CERTIFICATIONS**

1. Mandatory Certifications Required Precedent to Contract Award

### **PART 6 - RESULTING CONTRACT CLAUSES**

1. Security Requirement
2. Requirement
3. Standard Clauses and Conditions
4. Term of Contract
5. Authorities
6. Payment
7. Invoicing Instructions
8. Certifications
9. Applicable Laws
10. Priority of Documents
11. SACC Manual Clauses
12. Warranty

### **List of Annexes:**

- Annex A Requirement  
Annex B Basis of Payment

### **Forms**

- FORM A Bid Submission Form  
FORM B Technical Compliance Form

Solicitation No. - N° de l'invitation

T7054-130016/B

Amd. No. - N° de la modif.

File No. - N° du dossier

VAN-3-36133

Buyer ID - Id de l'acheteur

van532

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

T7054-130016

CCC No./N° CCC - FMS No/ N° VME

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This bid solicitation cancels and supersedes previous bid solicitation number T7054-130016/A *dated October 01, 2013 with a closing of November 12, 2013 at 14:00 PT*. A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with this bid solicitation.

### **2. Requirement**

The requirement is detailed under Article 2 of the resulting contract clauses.

### **3. Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

## **PART 2 - BIDDER INSTRUCTIONS**

### **1. Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual*

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: sixty (60) days  
Insert: ninety (90) days

### **2. Submission of Bids**

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

### **3. Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than fifteen (15) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

## **5. Applicable Laws**

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

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.

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **1. Bid Preparation Instructions**

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

Section I: Technical Bid ( 3 hard copies)

Section II: Financial Bid ( 1 hard copy)

Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

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

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

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

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

### **Section I: Technical Bid**

In their technical bid, bidders must demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements.

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

The technical bid consists of the following:

- a. **Bid Submission Form:** Bidders are requested to include the Bid Submission Form with their bids. It provides a common form in which bidders can provide information required for evaluation and contract award, such as a contact name, the Bidder's Procurement Business Number, etc. Using the form to provide this information is not mandatory, but it is recommended. If Canada determines that the information required by the Bid Submission Form is incomplete or requires correction, Canada will provide the Bidder with an opportunity to do so.
- b. **Substantiation of Technical Compliance:** The technical bid must substantiate the compliance of the Bidder and its proposed solution with the specific articles of Annex A (Requirement) identified in the Substantiation of Technical Compliance Form, which is the requested format for providing the substantiation. The Substantiation of Technical Compliance Form is not required to address any parts of this bid solicitation not referenced in the form. The substantiation must not simply be a repetition of the requirement(s), but must explain and demonstrate how the Bidder will meet the requirements and carry out the required Work. Simply stating that the Bidder or its proposed solution or product complies is not sufficient.

Where Canada determines that the substantiation is not complete, the Bidder will be declared non-responsive and disqualified. The substantiation may refer to additional documentation submitted with the bid - this information can be referenced in the "Reference" column of the Substantiation of Technical Compliance Form, where bidders are requested to indicate where in the bid the reference material can be found, including the title of the document, and the page and paragraph numbers; where the reference is not sufficiently precise, Canada may request that the Bidder direct Canada to the appropriate location in the documentation.

## **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with Annex B, Basis of Payment. The total amount of Applicable Taxes must be shown separately. Unless otherwise indicated, bidders must include a single, firm, all-inclusive price quoted in Canadian dollars in each cell requiring an entry in the pricing tables.

**Blank Prices:** Bidders are requested to insert "\$0.00" for any item for which it does not intend to charge or for items that are already included in other prices set out in the tables. If the Bidder leaves any price blank, Canada will treat the price as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No bidder will be permitted to add or change a price as part of this confirmation. Any bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.

### **1.1 Exchange Rate Fluctuation**

C3011T (2010-01-11), Exchange Rate Fluctuation

## **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **1. Evaluation Procedures**

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

### **1.1 Technical Evaluation**

#### **1.1.1 Mandatory Technical Criteria**

Each bid will be reviewed to determine whether it meets the mandatory requirements of the bid solicitation. Any element of the bid solicitation identified with the words "must" or "mandatory" is a mandatory requirement. Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

The mandatory technical requirements are described in Annex A

### **1.2 Financial Evaluation**

## *SACC Manual* Clause A0220T (2013-04-25), Evaluation of Price

The financial evaluation total will be based on the aggregate total of Table B.1 and Table B.2 in Annex B.

### **2. Basis of Selection - Mandatory Technical Criteria**

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

### **PART 5 - CERTIFICATIONS**

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

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default, if any certification made by the Bidder is found to be untrue whether 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

#### **1. Mandatory Certifications Required Precedent to Contract Award**

##### **1.1 Code of Conduct and Certifications - Related documentation**

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

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

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from [Human Resources and Skills Development Canada \(HRSDC\)](http://www.hrsdc.gc.ca) - Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list at the time of contract award.

### **PART 6 - RESULTING CONTRACT CLAUSES**

#### **1. Security Requirement**

There is no security requirement applicable to this Contract.

#### **2. Requirement**



The Contractor must provide the supply and delivery of a single front end loader, in accordance with the Requirement at Annex "A".

### 3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual*

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

#### 3.1 General Conditions

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 4. Term of Contract

#### 4.1 Complete Delivery

The Contractor must make the complete delivery within \_\_\_\_\_ weeks from the effective date of the Contract.

Complete delivery must be no later than March 31, 2014

#### 4.2 Optional Goods and /or Services

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

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

#### 4.3 SACC Manual clause D0018C (2007-11-30) Delivery and Unloading

### 5. Authorities

#### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Alan Takasaki  
 Title: Supply Specialist  
 Public Works and Government Services Canada  
 Acquisitions Branch Vancouver  
 Address: 219-800 Burrard Street, Vancouver, BC

Telephone: (604) 775-7605 Facsimile: (604)775-7526  
 E-mail address: al.takasaki@pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must

not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

## 5.2 Project Authority (to be completed at Contract award)

The Project Authority for the Contract is:

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

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

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

Telephone : \_\_\_\_\_ Facsimile: \_\_\_\_\_

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

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

## 5.3 Contractor's Representative

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

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

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

Telephone : \_\_\_\_\_ Facsimile: \_\_\_\_\_

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

## 6. Payment

### 6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price as specified in Annex B for a cost of \$ \_\_\_\_\_ (*insert the amount at contract award*). Customs duties are included and Applicable Taxes are extra.

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

### 6.2 Limitation of Price

SACC *Manual* clause C6000C (2011-05-16) Limitation of Price

### 6.3 Single Payment

SACC *Manual* clause H1000C (2008-5-12) Single Payment

## 7. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

## 8. Certifications

### 8.1 Compliance

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

## 9. Applicable Laws

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

## 10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2013-04-25) - Goods (Medium Complexity);;
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (f) the Contractor's bid dated \_\_\_\_\_ (insert date of bid) (If the bid was clarified or amended, insert at the time of contract award: ", as clarified on \_\_\_\_\_" **or** ", as amended on \_\_\_\_\_" and insert date(s) of clarification(s) or amendment(s))

## 11. SACC Manual Clauses

B7500C (2006-06-16) Excess Goods

## 12. Warranty

### 12.1 Warranty - Contractor responsible for all costs

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

2. The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or

Solicitation No. - N° de l'invitation

T7054-130016/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

van532

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

T7054-130016

File No. - N° du dossier

VAN-3-36133

CCC No./N° CCC - FMS No/ N° VME

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

All other provisions of the warranty section remain in effect.

## **ANNEX "A"** **REQUIREMENT**

### **RUBBER TIRED WHEEL LOADER - SPECIFICATIONS**

#### **1. MAKE and MODELS**

- a. To supply and deliver to Penticton Airport (CYYP) a single engine, front end wheel loader with attachments as specified herein.
- b. The "unit" or "the machine" refers to the front end wheel loader.

#### **2. GENERAL SPECIFICATIONS**

##### **a. Standard Requirements**

- The unit(s) supplied under this specification must be new and must have demonstrated industry acceptance by having been manufactured, and sold in significant numbers to the commercial trade.
- b. Engine net power must be a minimum of 195 horsepower.
  - c. The unit must be equipped with Craig Quick Key connect system
  - d. The machine wheel base must be a minimum of 120 inches.
  - e. The height to the top of the cab must be a maximum of 12 feet.
  - f. The machine ground clearance must be a minimum of 14 inches.
  - g. The machine width over the tires must not be less than 100 inches for side stability when equipped with 20.5R25 L2 Snow Grip Radial tires as a minimum.
  - h. The GVW must be a minimum of 30,000 lbs. The GVW weight must include lubricants, coolant, full fuel tank, loader bucket with bolt-on cutting edge, ROPS Cab and 20.5R25 L2 Snow Grip Radial tires
  - i. During the warranty and non-warranty periods, when servicing or repair is required, the Contractor must be on-site within 48 hours.
  - j. The machine must include all features standard for the model and year that are not stated in this specification
  - k. The machine must be equipped with front and rear fenders
  - l. The unit must be equipped with rear counter weights.

#### **3. ENGINE**

- a. Engine must meet or exceed current Tier III exhaust emission level standards
- b. Engine must have a minimum net horsepower of 195 HP.
- c. Engine must be a fully equipped six cylinder, four stroke diesel.
- d. Engine must be turbocharged and air to air after-cooled.
- e. Engine must be equipped with a 24 volt electric system for starting and operating with a minimum 65 amp alternator. A 12 Volt adapter must be installed to allow for the installation of radios and beacon lights.
- f. Engine must have an electric master disconnect switch
- g. The air cleaner must be a dual element dry type with a service indicator.
- h. Engine air filters must be removable without the use of tools.

- i. The contractor must include extended life coolant/antifreeze with a minimum protection to - 40°F. Coolant must meet or exceed Engine Manufacturers Specifications.
- j. The machine must be equipped with a reverse flow cooling system which draws air in from the back of the machine and exhaust's out the sides and top of the engine enclosure
- k. The machine must be equipped with an engine coolant heater powered by 110 volt external electric power source
- l. 500 hour engine oil change intervals
- m. Heavy duty maintenance free two (2) 700 CCA 12-volt batteries to be supplied with the manufacturer's suggested warranty.
- n. The loader must include a crankcase guard.

#### **4. TRANSMISSION / POWERTRAIN**

- a. Must be an automatic transmission with torque convertor drive of the hydrostatic design.
- b. Transmission must have a minimum of four forward speeds and three reverse speeds.
- c. Transmission must have manual shifting for forward gears.
- d. The operator must be able to select the highest gear to which the transmission will automatically shift.
- e. Forward / Reverse must be controlled electronically
- f. Transmission must have a transmission neutral mode
- g. Machine must have limited slip or differential lock transmission.
- h. The final drives must be of a planetary design
- i. Must have traction control for front and rear axles
- j. Total rear oscillating angle must be a minimum of 24°.
- k. Machine must include a transmission guard.

#### **5. BRAKES**

- a. Brakes must be a hydraulic wet disc type brakes.
- b. Brakes must be oil cooled
- c. Brakes must be protected from water, mud and dust
- d. The machine must be equipped with an independent systems for front and rear that provides effective braking in the event of a partial system malfunction
- e. Brakes must meet current regulations for OSHA including primary, secondary and parking brake requirements

#### **6. HYDRAULIC SYSTEM (HS)**

- a. The hydraulic system must be fully filtered and completely sealed
- b. The pump(s) must be of sufficient size and design that optimize available machine horse power
- c. HS must be equipped with a pilot operated controls for the lift, tilt and auxiliary hydraulics with detents

- d. HS must have load sensing steering using only the power required, providing smooth steering movements and operating safety
- e. Hydraulic relief valve must have a setting of 3,000 PSI Minimum
- f. Steering hydraulic system must be independent of the implement hydraulics
- g. The loader must have automatic bucket positioner and lift kick-out that is adjustable
- h. Hydraulic pressure taps must be included for checking pressure in the hydraulic implement and steering positions.
- i. 1,000 hour hydraulic oil service interval
- j. Quick couple hydraulic connections from tool to loader must be of easy access and a lock out arm provided.
- k. HS must be compatible with common type hydraulic fluids

## **7 CAB / OPERATING WORKSTATION**

- a. Integral Roll over protection system (ROPS) and Sound Suppressed Cab that meets current OSHA
- b. Cab must include a heater and defroster
- c. Cab must be air conditioned
- d. Cab must have safety glass windows
- e. Side windows must fully open
- f. Sun visor must be included
- g. Machine must be equipped with a multi-level warning system which signals machine and component malfunctions
- h. The implements must be controlled by a single lever joystick or dual lever type.
- i. Direction changes must be actuated by a single control lever mounted at the steering column
- j. Cab must include full instrumentation including hour meter
- k. Steering wheel, and transmission controls must be adjustable as a single unit (tilt steering)
- l. Seats must be cloth covered air-ride seat that is adjustable fore and aft, has lumbar support and adjustable armrests
- m. Seats must have operator seat belts
- n. Cab must have electric windshield wipers and washers at front and rear. Minimum of front wiper intermittent capable
- o. Cab must have internally and externally mounted rear view mirrors
- p. Cab must have an interior dome light
- q. Machine must be equipped with an audible warning system that sounds when the transmission is engaged and the parking brake is applied
- r. Cab must have four front and two rear working lights, and two rear stop and tail lights
- s. Machine must be equipped with directional signal lights
- t. Cab must have a roof mounted LED Beacon. The light flashing frequency must be between 60 and 90 per minute.
- u. Machine must be equipped with a back-up Alarm
- v. Machine must have floor mounted pedals for greater operator comfort
- w. Machine must have rubber floor mats

- x. Machine must be equipped with automatic ride control that can be operated in the on, off or automatic mode
- y. Machine must be equipped with a horn

## 8. **LOADER LINKAGE / BUCKET**

- a. Loader lift arms must be constructed of one solid plate with bucket level indicator.
- b. Loader lift arms must have dual, double acting lift cylinders  
Specify
- c. Loader lift arms must have dual or single bucket tilt cylinders, double Acting
- d. Cylinders must have chrome plated rods
- e. Loader lift arms must be equipped with Craig Quick Key hydraulic quick coupler to match existing QKMO 721 serial number 98013104.
- f. The bucket capacity must be 3.0 cubic yards minimum;
- g. The bucket must have a pre-drilled edge for bolt-on cutting edges and must have an integral spill plate
- h. The loader bucket must be a minimum of 100" wide
- i. The loader bucket must be equipped with heavy duty lifting eyes

## 9. **PERFORMANCE**

- a. Must be a minimum SAE breakout force of 22,050 pounds force
- b. Must be a minimum SAE straight tipping load of 22,000 pounds
- c. Must be a minimum SAE full turn 40° tipping load of 20,500 pounds

## 10. **REFILL CAPACITY**

- a. Fuel Tank must have a minimum capacity of 45 Imperial gallons
- b. Hydraulic Tank must have a minimum capacity of 20 Imperial gallons; and must be of sufficient size to supply hydraulic pumps and all circuits

## 11. **TIRES**

- a. Tires must be 20.5 R25 L2 Michelin X Snowplus M&S Radial Loader tire or "equivalent".

## 12. **MISCELLANEOUS**

- a. Contractor must supply all owner and operating manuals with machine
- b. Contractor must provide operator training video with machine
- c. Contractor must state factory warranties
- d. The dealer responsible for performing any required warranty repairs:

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

Location/Address \_\_\_\_\_

Telephone Number: \_\_\_\_\_



The name and phone number of the person to be contacted should non-warranty repairs be required on an on-call basis.

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

Telephone Number: \_\_\_\_\_

- e. Hydraulic and electrical schematics must be supplied with machine
- f. Machine must be painted equipment orange
- g. Contractor must provide standard operator training upon delivery required.

**13. ADDITIONAL EQUIPMENT (must be included)**

- a. One set of blank hooks for the quick disconnect.
- b. 4-in-1 Multi purpose 3 cu. yd bucket with teeth with attachment for quick connect system
- c. 6 cu. yd. Snow Bucket complete with attachment for quick connect system
- d. 15 foot Reversible Snow Pusher Blade complete with attachment for quick connect system
- e. Forklift attachment capable of lifting 1 ton complete with attachment for quick connect system

**14. AUTOMATIC GREASING SYSTEM**

- a. The machine must be supplied with a GROENVELD CPL Automatic Greasing System or an "equivalent", onboard type where the reservoir and pump assemblies are to be mounted in a convenient location to refill and be protected from the elements
- b. The Automatic Greasing System must be connected to all lube points except for drive shafts and other similar rotating parts
- c. Reservoir and pump assemblies must be mounted in a convenient location to refill and be protected from the elements

## ANNEX "B"

### BASIS OF PAYMENT

#### Pricing for a front end loader unit:

Pricing must be an all inclusive firm lot ceiling price for all costs for hardware, labour, on-site training, travel and living expenses, shipping and unloading, duties and applicable taxes for a Front end Loader complete with all equipment and miscellaneous items required to meet all the mandatory specifications in Annex A.

Any other costs not identified herein but are required to complete this requirement must be included in the Firm Lot Ceiling Prices.

**Table B.1**

| Item # | Description           | Qty | U of I | Firm Lot Ceiling Price |
|--------|-----------------------|-----|--------|------------------------|
| 1      | Front End Loader unit | 1   | lot    | \$                     |

Provide pricing if not already included in Item #1

|                   |  |   |     |    |
|-------------------|--|---|-----|----|
| 2                 | 1 year Warranty (Article 12 of Contract) | 1 | lot | \$ |
| <b>Subtotal 1</b> |  |   |     | \$ |

**Table B.2**

|   | Optional Goods/Services                               | Unit Price |
|---|---|------------|
| 3 | Additional 2nd yr - Warranty (Article 12 of Contract) | \$         |
| 4 | Additional 3rd yr - Warranty (Article 12 of Contract) | \$         |

Solicitation No. - N° de l'invitation

T7054-130016/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

van532

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

T7054-130016

VAN-3-36133

## FORMS

### FORM A - Bid Submission Form

| BID SUBMISSION FORM  |             |  |
|--|-------------|--|
| <b>Bidder's full legal name</b>  |             |  |
| <b>Authorized Representative of Bidder for evaluation purposes (e.g., clarifications)</b>  | Name        |  |
|  | Title       |  |
|  | Address     |  |
|  | Telephone # |  |
|  | Fax #       |  |
|  | Email       |  |
| <b>Bidder's Procurement Business Number (PBN)</b><br>[see the Standard Instructions 2003]  |             |  |
| <b>Jurisdiction of Contract:</b> Province in Canada the bidder wishes to be the legal jurisdiction applicable to any resulting contract (if other than as specified in solicitation) |             |  |
| <b>Signature of Authorized Representative of Bidder</b>  |             |  |

Solicitation No. - N° de l'invitation

T7054-130016/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

van532

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

T7054-130016

File No. - N° du dossier

VAN-3-36133

CCC No./N° CCC - FMS No/ N° VME

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## **FORM B - Technical Compliance Form**

Attached at the end of this RFP

Solicitation No. - N° de l'invitation

T7054-130016/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

van532

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

T7054-130016

File No. - N° du dossier

VAN-3-36133

CCC No./N° CCC - FMS No/ N° VME

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**NOTE TO BIDDERS:** Please use ONE of the two mailing labels below and affix it securely to the outside of the envelope or package containing your bid submitted by mail or courier. For bids submitted by facsimile (Bid receiving fax (604) 775-7526), use this sheet as the cover sheet. Always ensure your company name, return address, open bidding solicitation number and closing date appear legibly on the outside of your bid submission.

**AVIS AUX FOURNISSEURS:** Pour le retour par la poste ou par messenger, veuillez utiliser UNE des étiquettes d'envoi ci-dessous et apposez-la à l'extérieur de votre enveloppe ou du colis contenant votre offre. Pour les offres soumises par télécopieur (n° du télécopieur pour la réception des offres: (604) 775-7526), utilisez cette page comme bordereau de télécopie. Assurez-vous que le nom de votre compagnie, l'adresse de retour, le numéro de l'invitation ouverte à soumissionner et la date de clôture soient lisibles à l'extérieur de votre offre.

---

**Bid Receiving**  
**Public Works & Government Services Canada**  
**2nd FLOOR - 800 BURNARD STREET**  
**VANCOUVER BC V6Z 0B9**

**Solicitation No. : T7054-130016/B**

**Solicitation Closes at : 2:00 PM PT**  
**on : December 19, 2013**

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**Réception des soumissions**  
**Travaux publics et services gouvernementaux Canada**  
**800 rue Burrard, 2e étage**  
**Vancouver (C.-B) V6Z 0B9**

**N° de l'invitation : T7054-130016/B**

**La réception des soumissions prend fin le : decembre 19, 2013**  
**à : 14:00 PT**

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“B” tender

| Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS   |        |    |   |  |
|--|--------|----|---|--|
| DESCRIPTION  | COMPLY |    | Comments / reference  |  |
|  | YES    | NO |   |  |
| <b>1. ACCEPTABLE MAKE and MODELS</b>   |        |    |   |  |
| a. To supply and deliver to Penticton Airport (CYF) a single engine, front end wheel loader with attachments as specified below.   |        |    | Specify the make and model of the unit being tendered.<br><br>Make:   |  |
| b. The “unit” or “the machine” refers to the front end wheel loader.   |        |    | Model:  |  |
| <b>2. GENERAL SPECIFICATIONS</b>   |        |    |   |  |
| a. Standard Requirements<br>The unit(s) supplied under this specification must be new and must have demonstrated industry acceptance by having been manufactured, and sold in significant numbers to the commercial trade. |        |    | Bidder must provide a list of locations that have purchased the proposed equipment. Bidders are to provide Company Name, Contact name and tel # / email address that have purchased the proposed FE Loader. |  |
| b. Engine net power must be a minimum of 195 horsepower.   |        |    | State Actual:   |  |
| c. The unit must be equipped with Craig Quick Key connect system   |        |    |   |  |
| d. The machine wheel base must be a minimum of 120 inches.   |        |    | State Actual:   |  |
| e. The height to the top of the cab must be a maximum of 12 feet.  |        |    | State Actual:   |  |
| f. The machine ground clearance must be a minimum of 14 inches.  |        |    | State Actual:   |  |
| g. The machine width over the tires must not be less than 100 inches for side stability when equipped with 20.5R25 L2 Snow Grip Radial tires as a minimum.   |        |    | State Actual:   |  |

“B” tender

| Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS  |        |    |  |
|---|--------|----|--|
| DESCRIPTION   | COMPLY |    | Comments / reference                   |
|   | YES    | NO |  |
| h. The GVW must be a minimum of 30,000 lbs. The GVW weight must include lubricants, coolant, full fuel tank, loader bucket with bolt-on cutting edge, ROPS Cab and 20.5R25 L2 Snow Grip Radial tires                  |        |    | State Actual:                          |
| i. During the warranty and non-warranty periods, when servicing or repair is required, the Contractor must be on-site within 48 hours.  |        |    | Provide name and address of the dealer |
| j. The machine must include all features standard for the model and year that are not stated in this specification  |        |    |  |
| k. The machine must be equipped with front and rear fenders   |        |    |  |
| l. The unit must be equipped with rear counter weights.   |        |    |  |
| <b>3. ENGINE</b>  |        |    |  |
| a. Engine must meet or exceed current Tier III exhaust emission level standards   |        |    | State Actual:                          |
| b. Engine must have a minimum net horsepower of 195 HP.   |        |    | State Actual:                          |
| c. Engine must be a fully equipped six cylinder, four stroke diesel.  |        |    |  |
| d. Engine must be turbocharged and air to air after-cooled.   |        |    |  |
| e. Engine must be equipped with a 24 volt electric system for starting and operating with a minimum 65 amp alternator. A 12 Volt adapter must be installed to allow for the installation of radios and beacon lights. |        |    |  |

“B” tender

| Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS   |        |    |                                     |
|--|--------|----|-------------------------------------|
| DESCRIPTION  | COMPLY |    | Comments / reference                |
|  | YES    | NO |                                     |
| f. Engine must have an electric master disconnect switch   |        |    |                                     |
| g. The air cleaner must be a dual element dry type with a service indicator.   |        |    |                                     |
| h. Engine air filters must be removable without the use of tools.  |        |    |                                     |
| i. The contractor must include extended life coolant/antifreeze with a minimum protection to - 40°F. Coolant must meet or exceed Engine  |        |    |                                     |
| j. The machine must be equipped with a reverse flow cooling system which draws air in from the back of the machine and exhaust's out the sides and top of the engine enclosure |        |    |                                     |
| k. The machine must be equipped with an engine coolant heater powered by 110 volt external electric power source   |        |    |                                     |
| l. 500 hour engine oil change intervals  |        |    |                                     |
| m. Heavy duty maintenance free two (2) 700 CCA 12-volt batteries to be supplied with the manufacturer's suggested warranty.  |        |    |                                     |
| n. The loader must include a crankcase guard.  |        |    |                                     |
| <b>4. TRANSMISSION / POWERTRAIN</b>  |        |    |                                     |
| a. Must be an automatic transmission with torque converter drive of the hydrostatic design.  |        |    | State proposed transmission design: |
| b. Transmission must have a minimum of four forward speeds and three reverse speeds.   |        |    | State Actual:                       |



“B” tender

| <b>Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS</b>   |               |           |                             |
|---|---------------|-----------|-----------------------------|
| <b>DESCRIPTION</b>  | <b>COMPLY</b> |           | <b>Comments / reference</b> |
|   | <b>YES</b>    | <b>NO</b> |                             |
| c. Transmission must have manual shifting for forward gears.  |               |           |                             |
| d. The operator must be able to select the highest gear to which the transmission will automatically shift.   |               |           |                             |
| e. Forward / Reverse must be controlled electronically  |               |           |                             |
| f. Transmission must have a transmission neutral mode   |               |           |                             |
| g. Machine must have limited slip or differential lock transmission.  |               |           |                             |
| h. The final drives must be of a planetary design   |               |           |                             |
| i. Must have traction control for front and rear axles  |               |           |                             |
| j. Total rear oscillating angle must be a minimum of 24°.   |               |           | State Actual:               |
| k. Machine must include a transmission guard.   |               |           |                             |
| <b>5. BRAKES</b>  |               |           |                             |
| a. Brakes must be a hydraulic wet disc type brakes.   |               |           |                             |
| b. Brakes must be oil cooled  |               |           |                             |
| c. Brakes must be protected from water, mud and dust  |               |           |                             |
| d. The machine must be equipped with an independent systems for front and rear that provides effective braking in the event of a partial system malfunction |               |           |                             |

“B” tender

| <b>Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS</b> |  |               |           |                             |
|---|--|---------------|-----------|-----------------------------|
| <b>DESCRIPTION</b>  |  | <b>COMPLY</b> |           | <b>Comments / reference</b> |
|   |  | <b>YES</b>    | <b>NO</b> |                             |
| e.  | Brakes must meet current regulations for OSHA including primary, secondary and parking brake requirements                  |               |           |                             |
| <b>6. HYDRAULIC SYSTEM (HS)</b>   |  |               |           |                             |
| a.  | The hydraulic system must be fully filtered and completely sealed  |               |           |                             |
| b.  | The pump(s) must be of sufficient size and design that optimize available machine horse power                              |               |           |                             |
| c.  | HS must be equipped with a pilot operated controls for the lift, tilt and auxiliary hydraulics with detents                |               |           |                             |
| d.  | HS must have load sensing steering using only the power required, providing smooth steering movements and operating safety |               |           |                             |
| e.  | Hydraulic relief valve must have a setting of 3,000 PSI Minimum  |               |           |                             |
| f.  | Steering hydraulic system must be independent of the implement hydraulics  |               |           |                             |
| g.  | The loader must have automatic bucket positioner and lift kick-out that is adjustable                                      |               |           |                             |
| h.  | Hydraulic pressure taps must be included for checking pressure in the hydraulic implement and steering positions.          |               |           |                             |
| i.  | 1,000 hour hydraulic oil service interval  |               |           |                             |
| j.  | Quick couple hydraulic connections from tool to loader must be of easy access and a lock out arm provided.                 |               |           |                             |
| k.  | HS must be compatible with common type hydraulic fluids  |               |           |                             |

“B” tender

| Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS   |        |    |                      |  |
|--|--------|----|----------------------|--|
| DESCRIPTION  | COMPLY |    | Comments / reference |  |
|  | YES    | NO |                      |  |
| <b>7. CAB / OPERATING WORKSTATION</b>  |        |    |                      |  |
| a. Integral Roll over protection system (ROPS) and Sound Suppressed Cab that meets current OSHA                          |        |    |                      |  |
| b. Cab must include a heater and defroster   |        |    |                      |  |
| c. Cab must be air conditioned   |        |    |                      |  |
| d. Cab must have safety glass windows  |        |    |                      |  |
| e. Side windows must fully open  |        |    |                      |  |
| f. Sun visor must be included  |        |    |                      |  |
| g. Machine must be equipped with a multi-level warning system which signals machine and component malfunctions           |        |    |                      |  |
| h. The implements must be controlled by a single lever joystick or dual lever type.                                      |        |    |                      |  |
| i. Direction changes must be actuated by a single control lever mounted at the steering column                           |        |    |                      |  |
| j. Cab must include full instrumentation including hour meter  |        |    |                      |  |
| k. Steering wheel, and transmission controls must be adjustable as a single unit (tilt steering)                         |        |    |                      |  |
| l. Seats must be cloth covered air-ride seat that is adjustable fore and aft, has lumbar support and adjustable armrests |        |    |                      |  |
| m. Seats must have operator seat belts   |        |    |                      |  |

“B” tender

| <b>Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS</b>  |               |           |                                  |
|--|---------------|-----------|----------------------------------|
| <b>DESCRIPTION</b>   | <b>COMPLY</b> |           | <b>Comments / reference</b>      |
|  | <b>YES</b>    | <b>NO</b> |                                  |
| n. Cab must have electric windshield wipers and washers at front and rear. Minimum of front wiper intermittent capable                   |               |           |                                  |
| o. Cab must have internally and externally mounted rear view mirrors   |               |           |                                  |
| p. Cab must have an interior dome light  |               |           |                                  |
| q. Machine must be equipped with an audible warning system that sounds when the transmission is engaged and the parking brake is applied |               |           |                                  |
| r. Cab must have four front and two rear working lights, and two rear stop and tail lights   |               |           |                                  |
| s. Machine must be equipped with directional signal lights   |               |           |                                  |
| t. The cab must have a roof mounted LED Beacon. The light flashing frequency must be between 60 and 90 per minute.                       |               |           | Provide Make and Model proposed: |
| u. Machine must be equipped with a back-up Alarm   |               |           |                                  |
| v. Machine must have floor mounted pedals for greater operator comfort   |               |           |                                  |
| w. Machine must have rubber floor mats   |               |           |                                  |
| x. Machine must be equipped with automatic ride control that can be operated in the on, off or automatic mode                            |               |           |                                  |
| y. Machine must be equipped with a horn  |               |           |                                  |
| <b>8. LOADER LINKAGE / BUCKET</b>  |               |           |                                  |

“B” tender

| Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS   |        |    |                      |
|--|--------|----|----------------------|
| DESCRIPTION  | COMPLY |    | Comments / reference |
|  | YES    | NO |                      |
| a. Loader lift arms must be constructed of one solid plate with bucket level indicator.  |        |    |                      |
| b. Loader lift arms must have dual, double acting lift cylinders   |        |    | Specify              |
| c. Loader lift arms must have dual or single bucket tilt cylinders, double Acting  |        |    |                      |
| d. Cylinders must have chrome plated rods  |        |    |                      |
| e. Loader lift arms must be equipped with Craig Quick Key hydraulic quick coupler to match existing QKMO 721 serial number 98013104. |        |    |                      |
| f. The bucket capacity must be 3.0 cubic yards minimum   |        |    | Provide Actual:      |
| g. The bucket must have a pre-drilled edge for bolt-on cutting edges and must have an integral spill plate                           |        |    |                      |
| h. The loader bucket must be a minimum of 100" wide  |        |    | State Actual:        |
| i. The loader bucket must be equipped with heavy duty lifting eyes   |        |    |                      |
| <b>9. PERFORMANCE</b>  |        |    |                      |
| a. Must be a minimum SAE breakout force of 22,050 pounds force   |        |    | State Actual:        |
| b. Must be a minimum SAE straight tipping load of 22,000 pounds  |        |    | State Actual:        |

“B” tender

| Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS   |        |    |                             |
|--|--------|----|-----------------------------|
| DESCRIPTION  | COMPLY |    | Comments / reference        |
|  | YES    | NO |                             |
| c. Must be a minimum SAE full turn 40° tipping load of 20,500 pounds   |        |    | State Actual:               |
| <b>10. REFILL CAPACITY</b>   |        |    |                             |
| a. Fuel Tank must have a minimum capacity of 45 Imperial gallons   |        |    | State Actual:               |
| b. Hydraulic Tank must have a minimum capacity of 20 Imperial gallons; and must be of sufficient size to supply hydraulic pumps and all circuits   |        |    | State Actual:               |
| <b>11. TIRES</b>   |        |    |                             |
| a. Tires must be 20.5 R25 L2 Michelin X Snowplus M&S Radial Loader tire or “equivalent”.   |        |    | State tires on quoted unit: |
| <b>12. MISCELLANEOUS</b>   |        |    |                             |
| a. Contractor must supply all owner and operating manuals with machine   |        |    |                             |
| b. Contractor must provide operator training video   |        |    |                             |
| c. Contractor must state factory warranties  |        |    |                             |
| d. Specify the dealer responsible for performing any required warranty repairs, and provide the name and phone number of the person to be contacted should non-warranty repairs be required on an on-call basis. |        |    | DEALER:<br>CONTACT:         |
| e. Hydraulic and electrical schematics must be supplied with machine   |        |    |                             |
| f. Machine must be painted equipment <b>orange</b>   |        |    |                             |

“B” tender

| Form B: Technical Compliance Form - RUBBER TIRED WHEEL LOADER - SPECIFICATIONS   |        |    |                        |
|--|--------|----|------------------------|
| DESCRIPTION  | COMPLY |    | Comments / reference   |
|  | YES    | NO |                        |
| g. Contractor must provide standard operator training upon delivery required.  |        |    |                        |
| <b>13. ADDITIONAL EQUIPMENT must be included</b>   |        |    |                        |
| a. One set of blank hooks for the quick disconnect.  |        |    |                        |
| b. 4-in-1 Multi purpose 3 cu. yd bucket with teeth with attachment for quick connect system  |        |    |                        |
| c. 6 cu. yd. Snow Bucket complete with attachment for quick connect system   |        |    |                        |
| d. 15 foot Reversible Snow Pusher Blade complete with attachment for quick connect system  |        |    |                        |
| e. Forklift attachment capable of lifting 1 ton complete with attachment for quick connect system  |        |    |                        |
| <b>14. AUTOMATIC GREASING SYSTEM</b>   |        |    |                        |
| a. The machine must be supplied with a GROENVELD CPL Automatic Greasing System or an“equivalent”, onboard type where the reservoir and pump assemblies are to be mounted in a convenient location to refill and be protected from the elements |        |    | State proposed system: |
| <b>b.</b> The Automatic Greasing System must be connected to all lube points except for drive shafts and other similar rotating parts  |        |    |                        |
| c. Reservoir and pump assemblies must be mounted in a convenient location to refill and be protected from the elements   |        |    |                        |