

**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
**Cabot Place, Phase II  
Box 4600  
St. John's, NL  
A1C 5T2  
Bid Fax: (709) 772-4603**

## **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>Dump Truck  |  |   |
| <b>Solicitation No. - N° de l'invitation</b><br>T2012-120015/A  | <b>Date</b><br>2012-09-18              |   |
| <b>Client Reference No. - N° de référence du client</b><br>T2012-120015   |  |   |
| <b>GETS Reference No. - N° de référence de SEAG</b><br>PW-\$Xaq-023-5664  |  |   |
| <b>File No. - N° de dossier</b><br>Xaq-2-35078 (023)  | <b>CCC No./N° CCC - FMS No./N° VME</b> |   |
| <b>Solicitation Closes - L'invitation prend fin</b><br><b>at - à 02:00 PM</b><br><b>on - le 2012-10-29</b>  |  | <b>Time Zone</b><br><b>Fuseau horaire</b><br>Newfoundland Daylight<br>Saving Time NDT |
| <b>F.O.B. - F.A.B.</b><br><b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>                      |  |   |
| <b>Address Enquiries to: - Adresser toutes questions à:</b><br>Chaulk(xaq), Patricia  |  | <b>Buyer Id - Id de l'acheteur</b><br>xaq023  |
| <b>Telephone No. - N° de téléphone</b><br>(709) 772-5398 ( )  |  | <b>FAX No. - N° de FAX</b><br>(709) 772-4603  |
| <b>Destination - of Goods, Services, and Construction:</b><br><b>Destination - des biens, services et construction:</b><br>Anthony Airport<br>P.O. Box 250<br>St. Anthony, NL A0K 4S0 |  |   |

**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**

PWGSC / TPGSC - Nfld. Region  
Cabot Place, Phase II, 6th Floor  
Box 4600  
St. John's, NL  
A1C 5T2

|  |  |
|--|--|
| <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</b><br><b>(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>                                  |

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Requirement**

Supply to Transport Canada, St. Anthony Airport, St. Anthony, Newfoundland, One (1) New 4 x 4 dump truck equipped with a front mounted roll over snow plow and wing plow and a fifth wheel towing configuration as per specification DT4x4-ATL-2012.06 included with the Request for Proposal (RFP) and as per Terms and Conditions stated herein.

### **3. Debriefings**

After contract award, 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.

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## 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

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

The text under Subsection 4 of Section 01 – Code of Conduct and Certifications of 2003 referenced above is replaced by:

Bidders should provide, with their bid or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to provide such a list within the required time frame will render the bid non-responsive. Bidders must always submit the list of directors before contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (*Consent to a Criminal Record Verification form - PWGSC-TPSGC 229*) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

The text under Subsection 5 of Section 01 – Code of Conduct and Certifications of 2003 referenced above is replaced by:

The Bidder must diligently maintain the list up-to-date by informing Canada in writing of any change occurring during the validity period of the bid, and must also provide Canada, when requested, with the corresponding Consent Forms. The Bidder will also be required to diligently maintain the list and when requested, provide Consent Forms during the period of any contract arising from this bid solicitation.

### 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.

#### 2.1 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work 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 five (5) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

### 3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

### 4. Applicable Laws

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

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

### 5. Term of Contract

#### 5.1 Delivery Date

While delivery is requested on or before **29 March 2013** the best delivery that could be offered is

\_\_\_\_\_.

### 6. Consignee

Shipment shall be consigned FOB destination including all delivery charges to:

Transport Canada  
St. Anthony Airport  
St. Anthony, Newfoundland and Labrador  
Canada  
A0K 4S0

### 7. Pre-servicing

The vehicle shall be pre-serviced in accordance with standard commercial practices for customer delivery. The fuel tank must be filled and the Other fluids must be topped up in accordance with the vehicle manufacturers recommendation when delivered within Canada.

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## **8. Vehicles**

Each vehicle offered pursuant to the Standing Offer must meet the provisions of the Motor Vehicle Safety Act, S.C. 1993, c. 16, and the applicable regulations that are in force on the date of its manufacture.

## **9. SACC Manual Clauses**

SACC Manual Clause B1000T (**2007-11-30**) Condition of Material

## **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)  
Section IIII: Transportation Costs Information

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

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

#### **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.

#### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

##### **1.1 Exchange Rate Fluctuation**

SACC Manual Clause C3011T (**2010-01-11**), Exchange Rate Fluctuation

#### **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

### Section III: Transportation Costs Information

The Bidder should provide the following information concerning transportation costs for the delivery of the units to destination:

- (a) shipping weight by unit; \_\_\_\_\_
- (b) number of items by unit; \_\_\_\_\_
- (c) cubic measurement by unit; \_\_\_\_\_
- (d) freight classification; \_\_\_\_\_
- (e) name of shipping point; \_\_\_\_\_
- (f) name of rail carrier, if shipment is by rail; \_\_\_\_\_ and \_\_\_\_\_
- (g) recommended method of shipment \_\_\_\_\_ and its costs. \$ \_\_\_\_\_



## **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**

Meets the Terms and Conditions stated herein plus the Requirement/Specifications stated in Annex "A"

#### **1.2 Financial Evaluation**

##### **Evaluation of Price**

**1.2.1.** The price of the bid will be evaluated as follows:

**a)** Canadian-based bidders must submit firm prices, Canadian customs duties and excise taxes included, and Goods and Services Tax (GST) or Harmonized Sales Tax (HST) excluded.

**b)** foreign-based bidders must submit firm prices, Canadian customs duties, excise taxes and GST or HST excluded. Canadian customs duties and excise taxes payable by Canada will be added, for evaluation purposes only, to the prices submitted by foreign-based bidders.

**1.2.2.** Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

**1.2.3.** Although Canada reserves the right to award the Contract either on an FOB plant or FOB destination, Canada requests that bidders provide prices FOB their plant or shipping point and FOB destination.

Bids will be assessed on an FOB destination basis.

**1.2.4.** For the purpose of the bid solicitation, bidders with an address in Canada are considered Canadian-based bidders and bidders with an address outside of Canada are considered foreign-based bidders.

### **1.3 SACC Manual Clauses**

SACC Manual Clause A0220T (2007-05-25), Evaluation of Price

## 2. Basis of Selection

SACC Manual Clause A0069T (2007-05-25), Basis of Selection

### PART 5 - CERTIFICATIONS

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

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

#### 1. Code of Conduct Certifications – Certifications Required Precedent to Contract Award

**1.1** Bidders should provide, with their bids or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Bidders must submit the list of directors before contract award, failure to provide such a list within the required time frame will render the bid non-responsive.

The Contracting Authority may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (*Consent to a Criminal Record Verification form* - PWGSC-TPSGC 229) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive

#### 2. 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 so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

##### 2.1 Federal Contractors Program - Certification

###### Federal Contractors Program - \$200,000 or more (A3030T)

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

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

**2.1.2.** If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.

**2.1.3.** The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

( ) is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;

( ) is not subject to the FCP, being a regulated employer under the *Employment Equity Act*, S.C. 1995, c. 44;

( ) is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;

( ) is subject to the FCP, and has a valid certificate number as follows: \_\_\_\_\_ (e.g. has not been declared an ineligible contractor by HRSDC).

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

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

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Requirement**

Supply to Transport Canada, St. Anthony Airport, St. Anthony, Newfoundland, One (1) New 4 x 4 dump truck equipped with a front mounted roll over snow plow and wing plow and a fifth wheel towing configuration as per specification DT4x4-ATL-2012.06 included with the Request for Proposal (RFP) and as per Terms and Conditions stated herein (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 (<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 (**2012-07-16**), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

The text under Subsection 4 of Section 29 – Code of Conduct and Certifications of 2010A (**2012-07-16**), General Conditions - Goods (Medium Complexity), referenced above is replaced by:

During the entire period of the Contract, the Contractor must diligently update, by written notice to the Contracting Authority, the list of names of all individuals who are directors of the Contractor whenever there is a change. As well, whenever requested by Canada, the Contractor must provide the corresponding Consent Forms.

### **4. Term of Contract**

#### **4.1 Delivery Date**

All the deliverables must be received on or before \_\_\_\_\_ .

## 4.2 Consignee

Shipment shall be consigned FOB destination including all delivery charges to :

Transport Canada  
St. Anthony Airport,  
St. Anthony, Newfoundland and Labrador,  
Canada  
A0K 4S0

## 5. Authorities

### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Patricia Chaulk  
Contracting Officer  
Public Works and Government Services Canada  
Acquisitions Branch  
P.O. Box 4600  
St. John's, NL A1C 5T2

Telephone: 709-772-8357  
Facsimile: 709-772-4603  
E-mail address: patricia.chaulk@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 by PWGSC at the time of 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.

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### 5.3 Contractor's Representative

#### General enquiries

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

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

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

#### Delivery follow-up

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

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

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

### 6. Payment

#### 6.1 Basis of Payment

##### Basis of Payment - Firm Unit Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a **firm unit price**, as specified in the "contract" for a cost of \$ \_\_\_\_\_ (insert the amount at contract award). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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 (C6000C)

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

#### 6.3 Single Payment (H1000C)

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b) all such documents have been verified by Canada;
- c) the Work delivered has been accepted by Canada.

## 7. Invoicing Instructions

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.

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

## 9. Applicable Laws

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

## 10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) 2010A (**2012-07-16**), General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Requirement
- (d) 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

SACC Manual Clause B1501C (**2006-06-16**), Electrical Equipment  
 SACC Manual Clause A9068C (**2010-01-11**), Government Site Regulations  
 SACC Manual Clause B1505C (**2006-06-16**), Shipment of Hazardous Materials  
 SACC Manual Clause C0306C (**2007-05-25**), Precontractual Cost  
 SACC Manual Clause D3015C (**2007-11-30**), Dangerous Goods/Hazardous Products  
 SACC Manual Clause A9049C (**2011-05-16**), Vehicle Safety

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## **REQUIREMENT**

Supply to Transport Canada, St. Anthony Airport, St. Anthony, Newfoundland, One (1) New 4 x 4 dump truck equipped with a front mounted roll over snow plow and wing plow and a fifth wheel towing configuration as per specification DT4x4-ATL-2012.06 included with the Request for Proposal (RFP) and as per Terms and Conditions stated herein (Annex A).

## **Pricing**

Year/brand/model offered:

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\$ \_\_\_\_\_ EA. (HST Extra)

(INTERESTED BIDDERS TO PROVIDE BROCHURES/SPECIFICATION SHEETS ON THE UNIT THEY ARE OFFERING FOR REVIEW BY THE TECHNICAL/PROJECT AUTHORITY)

## **Evaluation Criteria:**



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**Proposals will be evaluated based on the lowest unit price quoted from technically responsive proposals in accordance with the Terms and Conditions stated herein.**

**ANNEX "A"**

**REQUIREMENT**

**(25 Pages as attached)**

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1.0 SCOPE

- 1.1 Scope - Supply the quantity of trucks equipped for snow removal as noted in the request for proposal. The requirement is for one (1) new 2012/13 vehicle equipped with a front mounted roll over snow plow, wing plow, and a fifth wheel towing configuration. The truck supplied is to be complete with all accessories customarily furnished and installed on this type of vehicle, whether specified herein or not, to enable the unit to function reliably and efficiently under all conditions of service. All items noted in sections 1.0 through 10.5 of this specification are to be included in the base configuration, unless noted otherwise.

SPECIFY THE ACTUAL COMPONENTS SUPPLIED, AND THEIR RATED CAPACITIES, FOR THE UNITS TENDERED. NOTE IN DETAIL ANY DEVIATIONS FROM THE SPECIFIED ITEMS. A SEPARATE ATTACHMENT MAY BE PROVIDED INDICATING THE SPECIFIED ITEM.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2.0 GENERAL REQUIREMENTS

- 2.1 Standard Requirements - The equipment supplied under this specification shall be the manufacturer's latest model standard commercial product and shall have demonstrated industry acceptance by having been manufactured, and sold in significant numbers to the commercial trade and shall have been proven in service for the application specified, for at least 1 year prior to the request for proposal; or in the case of a recently introduced item, the manufacturer shall submit sufficient valid operational and test data to demonstrate the acceptability of the equipment.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- 2.2 Overview - The vehicle supplied under this specification shall be a minimum 19,504 kg (43,000 lb) GVWR four wheel drive truck

TRUCK  
MAKE/MODEL: \_\_\_\_\_

complete with dump body, utilizing a diesel engine and an automatic transmission. The vehicle is to be equipped with a front mounted snow plow, a wing plow and a fifth wheel.

- 2.3 Operating Conditions - The unit is required for year-round maintenance work at airports. The unit supplied should be capable of satisfactory continuous operation when loaded to the maximum GVWR specified, in ambient temperatures ranging from 40 degrees Celsius to minus 40 degrees Celsius. It should be capable of operating at rated capacities for prolonged periods without deformation and/or failure of components on paved and gravel surfaces in all conditions including adverse weather conditions.

- 2.4 Mandatory Items - Mandatory requirements are identified by "shall" or "must". Deviations will not be permitted.

- 2.5 Approved Equivalent - Requirements identified by "should" should be satisfied; however alternative means will be considered if the alternative feature or component is determined by Transport Canada to meet the requirements for form, fit function and performance, as applicable.

### 3.0 REGULATIONS AND STANDARDS

- 3.1 General - All standards and specifications referenced herein refer to the latest editions unless otherwise indicated.

- 3.2 Component Certification - Upon request of the project authority, the prime contractor must obtain component certification, from the

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

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COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

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component manufacturer, for any items installed on the unit. These certifications must indicate the model of the machine on which the component will be installed and the characteristics for which the component was designed.

- 3.3 Highway Traffic Act - The vehicle supplied shall comply in all applicable respects with the Highway Traffic Act or regulations for Newfoundland and Labrador, Canada.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_

- 3.4 Canada Motor Vehicle Safety Standards - The vehicle supplied shall comply in all applicable respects with the Canada Motor Vehicle Safety Standards.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_

- 3.5 Society of Automotive Engineers (SAE) - All notations in this specification indicating SAE refer to the most recent specification in effect or it's equivalent replacement specification in effect, by the Society of Automotive Engineers.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### 4.0 **DELIVERY**

- 4.1 Documentation - All necessary documentation (origin certificate, weigh ticket, etc.) required for licensing the vehicle for road use, by the issuing provincial authority, shall be provided to the consignee at the time and point of final delivery.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### 5.0 **MANUALS**

- 5.1 Manuals - Provide a minimum of one copy paper and include electronic, if available, in English, of the manuals requested below, for the truck and for the plows delivered. The

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

contract will not be considered complete and final payment will not be made until all manuals noted are received in new, original, unused condition.

5.2 Maintenance Manuals - Provide a minimum of one copy of the manufacturer's overall maintenance manuals for the truck and for the plows. The manuals should indicate the proper maintenance procedures for all component installations, and should include assembly drawings for all components and accurate schematics of the electrical systems and the hydraulic systems.

5.3 Parts Manuals - Provide a minimum of one copy of the parts manuals for the truck. The parts manuals should list each of the individual component parts numbers, illustrated drawings and manufacturer's name, address and contact phone number.

5.4 OEM Parts & Maintenance Manuals - Provide a minimum of one copy of the maintenance and parts manuals, supplied by the respective (OEM) manufacturer, for each major component, including the plows, installed on the vehicle.

5.5 Operators Manual - Provide a minimum of one copy of the operators manual.

6.0 CAB AND CHASSIS

6.1 G.V.W.R.

- .1 The minimum gross vehicle weight rating shall be 19,504 kg (43,000 lb).

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ACTUAL  
GVWR: \_\_\_\_\_

6.2 Dimensions

- .1 The maximum turning radius should be 9.5 m (31.0 ft) to the centreline of the front tire as per SAE J695.
- .2 The cab to axle center dimension should be a minimum of 2108 mm (83 inches) and a maximum of 2339 mm (92 inches).
- .3 The bumper to back of cab dimension should be a minimum of 2565 mm (101 inches) and a maximum of 2896 mm (114 inches).

ACTUAL  
RADIUS: \_\_\_\_\_

ACTUAL: \_\_\_\_\_

ACTUAL: \_\_\_\_\_

6.3 Engine

- .1 The engine shall be a liquid cooled diesel.
- .2 The engine shall have a minimum 330 net horsepower rating. Manufacturer's published literature or performance tests indicating the values noted must be supplied.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

ACTUAL: \_\_\_\_\_

- .3 The engine shall have a minimum torque rating of 1559 Nm (1150 lb-ft).

ACTUAL: \_\_\_\_\_

- .4 The engine radiator shall be a severe duty type. The cooling system should be supplied with coolant rated for protection to a minimum of minus 40 degrees Celsius.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

- .5 The engine should include a minimum 1500 watt, electric block heater, complete with a conveniently located exterior plug.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

- .6 Due to airport operational safety concerns, automatic engine shutdown systems should be avoided. Instead, the engine should be

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

equipped to activate warning lights and audible alarms for all of the following conditions; low engine oil pressure, low coolant level and high coolant temperature.

- .7 The vehicle should be equipped with in-cab engine oil and coolant temperature gauges, air and oil pressure gauges.

- .8 The vehicle should be equipped with an air operated engine fast idle switch with in-cab controls, capable of maintaining a constant engine speed of 1200 rpm when engaged.

- .9 The vehicle should be supplied with an OEM approved vinyl winter front, if offered as a recommended option by the manufacturer.

#### 6.4 Transmission

- .1 The vehicle shall be equipped with an automatic transmission suited for the engine provided, Allison Rugged Duty Series or equivalent, with five forward speeds, third gear hold and complete with an oil cooler.

- .2 The transmission shall be equipped with an automatic safety device to ensure that the vehicle engine can only be started in neutral and that the shift selector cannot be inadvertently be shifted into reverse.

- .3 The shift quadrant control must be illuminated.

- .4 The vehicle should be equipped with a dash mounted transmission oil temperature gauge and an audible alarm for high transmission

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

MAKE/MODEL: \_\_\_\_\_  
RATIOS: \_\_\_\_\_  
OIL COOLER  
TYPE: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_



temperature.

## 6.5 Suspension

- .1 The front and the rear suspension shall both be progressive, heavy duty type. The minimum rating for the front shall be 9,072 kg (20,000 lb) and the rear minimum shall be 10,433 kg (23,000 lb). Also see section 10.3.1 for additional suspension requirements.

- .2 The rear suspension shall be complete with auxiliary springs.

## 6.6 Transfer Case

- .1 The vehicle should be equipped with a single speed or two speed transfer case with a proportional differential and an air operated lock in/out switch.

- .2 The vehicle shall be equipped with a dash mounted light to indicate when the front axle is engaged.

- .3 All drive shafts shall be minimum Spicer Life Series or Spicer 10 Series or equivalent and shall be rated to be compatible with all other drive components.

## 6.7 Frame

- .1 The vehicle frame shall be full depth, heavy duty having a minimum RBM of 350,000 Nm. The frame must meet this minimum requirement at any location for the entire frame length.

- .2 All frame components shall be bolted together allowing for replacement.

RDIMS#: 7760346

COMPLY (Yes/No) : \_\_\_\_\_

FRONT

RATING: \_\_\_\_\_

REAR

RATING: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_

DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_

MAKE/MODEL: \_\_\_\_\_

TORQUE RATING: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_

DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_

MAKE/MODEL: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_

FRAME

RBM: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_

DETAILS: \_\_\_\_\_

- .3 The vehicle frame should provide for the installation of a front mounted PTO pump, driven from the engine crankshaft.

6.8 Axles

- .1 The vehicle should be equipped with a set back front axle with a standard differential and shall have a minimum capacity of 9,072 kg (20,000 lb).
- .2 The vehicle shall be equipped with a rear axle with a standard differential and a minimum capacity of 5842 kg (23,000 lb).
- .3 The axle gear ratios should be supplied to allow for optimal performance during snow removal and towing operations and also to allow for an approximate road speed of 90 kph.

6.9 Wheels and Tires

- .1 The front rims should be single wheel, size 12.25 x 22.5.
- .2 The rear rims should be single or dual wheel, size 8.25 x 22.5.
- .3 All wheels on the vehicle should be of the same type.
- .4 All wheels shall comply with the axle manufacturer's rating for imposed loads and operating conditions.
- .5 The vehicle shall be equipped with new, on/off road, radial type tires, suited for the rims supplied. The tires shall have a tread pattern

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
SETBACK DIMENSION: \_\_\_\_\_  
CAPACITY: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
CAPACITY \_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
SIZE: \_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
SIZE: \_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
FRONT REAR  
SIZE: \_\_\_\_\_

and be sized for optimal performance in the intended operating conditions.

- .6 The vehicle shall be supplied with (1) one, matching spare front wheel and tire assembly and (1) one, matching spare rear wheel and tire assembly.

#### 6.10 Steering

- .1 The vehicle shall be equipped with integral power steering and be capable of manual steering in the event of engine failure.

#### 6.11 Fuel Tank

- .1 The vehicle shall be equipped with a minimum 220 litres capacity fuel tank, installed to require refuelling operations from the left side of the vehicle.

#### 6.12 Exhaust

- .1 The vehicle shall be equipped with a vertically mounted exhaust complete with an elbow or rain cap. Heat shields shall be installed on exposed vertical exhaust components, where required, to eliminate the possibility of contact injury.

#### 6.13 Brakes

- .1 The vehicle shall be equipped with full air brakes and should incorporate the following:
  - .1 minimum 16.5 CFM air compressor.
  - .2 spring applied, air release parking brakes.

MAKE: \_\_\_\_\_  
TYPE: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_

ACTUAL: \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- .3 minimum 16.5 x 5 "S-cam" or "Wedge" front brakes with automatic adjusters.
- .4 minimum 16.5 x 7 "S-cam" rear brakes with automatic adjusters.
- .5 Bendix AD-9, or equivalent, heated air dryer complete with moisture ejector.
- .6 dash mounted pressure gauge with low pressure warning light and buzzer.

#### 6.14 Electrical

- .1 The vehicle shall be equipped with maintenance free batteries. The number of batteries and the batteries rating shall be sufficient to meet the vehicle's total electrical requirements, in the operating conditions indicated in section 2.3 of this specification.

- .2 The vehicle should be equipped with a minimum 140 amp, 12 V alternator.

- .3 The vehicle shall be equipped with a back-up alarm as per SAE J-994, type "C".

- .4 The vehicle shall be equipped with a cab top mounted, minimum 8 joule strobe light complete with a dash mounted switch with appropriate identification. The light should be high profile, standing a minimum of 203 mm (8 inches) above the cab roof.

- .5 The vehicle should be equipped with an in-cab warning light and audible alarm to indicate all of the following conditions; high coolant

DETAILS: \_\_\_\_\_

DETAILS: \_\_\_\_\_

DETAILS: \_\_\_\_\_

DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
QUANTITY: \_\_\_\_\_  
MAKE/MODEL: \_\_\_\_\_  
TOTAL \_\_\_\_\_  
C.C.A: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
MAKE/MODEL: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

temperature, low coolant level, high  
transmission temperature and low engine oil  
pressure.

- .6 The vehicle should be equipped with a dash  
mounted hour meter that is configured to  
record actual engine running hours.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

- .7 The vehicle shall be equipped with hi/lo  
halogen headlights, brake lights, tail lights,  
backup lights, directional signal lights, four  
way flasher lights, side marker lights,  
license plate holder and interior  
dome lights.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

- .8 The vehicle's entire electrical system shall  
be protected from the elements. All wiring  
connections shall be either soldered or  
approved connectors. All connectors shall be  
heavy duty, waterproof type. All wiring shall  
be color coded.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

- .9 The vehicle should be equipped with manual  
reset electrical circuit breakers installed in  
a common, easily accessible location.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

# 6.15 Cab

- .1 The cab shall be fully insulated metal  
equipped with maximum capacity fresh air  
intake, heating, and defrosting systems. The  
air intake system shall be protected from the  
ingress of dust, rain and snow.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

- .2 The cab heating and defrosting systems shall  
have a cold climate capacity capable of  
maintaining the interior cab temperature at 15  
degrees Celsius.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

- .3 The cab access handles should be stainless steel or chrome plated steel securely installed in a convenient location.
- .4 The cab shall be equipped with the heaviest duty, variable speed electric or air windshield wipers complete with wet blade type windshield washers. The wipers should be mounted below the windshield.
- .5 The cab shall be equipped with a tinted front windshield.
- .6 The cab shall be supplied with a maximum soundproof insulation package fitted to provide the lowest possible interior sound level. The interior sound level shall not exceed 83 dB(A) when measured in accordance with SAE J919; where the constant speed moving test would be conducted on bare asphalt with the vehicle moving at maximum governed speed in third gear.
- .7 In addition to instrumentation indicated in other specification sections, the cab should be equipped with a minimum of the following fully functioning instrumentation; tachometer(s), speedometer, odometer, fuel gauge, voltmeter(s) and oil pressure gauge(s).
- .8 All instrumentation, switches, gauges and controls shall be clearly marked in English, or ISO identification. All labels shall be permanently affixed, etched metal plates or engraved (two color) plastic plates.
- .9 The cab shall be equipped with driver and passenger sun visors.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
ACTUAL  
LEVEL: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

.10 The cab shall be equipped with operable windows in each side door. The windows shall be electrically powered with door mounted controls. An additional look down mirror shall be installed on the passenger side door.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.11 The cab shall be equipped with an AM/FM radio.

COMPLY (Yes/No) : \_\_\_\_\_

.12 The cab shall be equipped with a driver's high back, air-ride suspension, cloth seat complete with armrests. The seat should have the best level of comfort and the maximum adjustments optionally available for the vehicle. The cab shall also be equipped with a single passenger cloth seat. Both seats shall be equipped with approved seatbelts.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.13 The cab shall be equipped with electrically powered and heated dual west coast type mirrors, minimum 178 x 406 mm (7 x 16 inches). Also install minimum 150 mm (6 inches) lower mounted convex mirrors on both sides. The power controls for the mirrors must be within easy reach of the driver.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.14 The engine hood shall be top or side opening and must permit easy access to the engine. The vehicle may be supplied with a tilt-forward type hood, but should also be supplied with side opening hoods to allow full access to the engine with the plows in working position.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

#### 6.16 Mud Flaps

.1 The vehicle shall be equipped with full mud flaps behind the rear wheels. The mud flaps should be mounted to the vehicle frame with

COMPLY (Yes/No) : \_\_\_\_\_

spring-loaded hangers.

## 6.17 Painting

- .1 The vehicle cab shall be painted to the vehicle manufacturer's methods and standards. The plows, frame, etc. should be painted with epoxy type paint, Dupont Imron or equivalent. All major components including the cab, dump box, and plows shall be standard paint colour, orange, to CGSB 1-GP-12, shade 508-101 or equivalent. The frame, brackets, axles, underbody, fenders, etc. may be colour black. Paint shall be applied according to the paint manufacturer's specification.

## 6.18 Instruction Identification

- .1 The unit shall be supplied with permanently installed ISO or written instructions, diagrams and warning plates, where required to ensure maximum safety and efficient operation and servicing.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## 7.0 DUMP BODY

### 7.1 Body and Hoist

- .1 The vehicle shall be equipped with a heavy duty steel dump body. The dump body should be approximately 4.6 cu m (6 cu yds) capacity, 3048 mm (120 inches) long x 2438 mm (96 inches) wide, with 813 mm (32 inches) high sides.
- .2 The inside walls of the dump body shall be vertical and 90 degrees to the floor.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
CAPACITY: \_\_\_\_\_  
LENGTH (m) \_\_\_\_\_ WIDTH (m) \_\_\_\_\_ HEIGHT (m) \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_



- |   |  |
|---|--|
| <p>.3 The dump body tailgate should be a minimum of 1067 mm (42 inches) high.</p> <p>.4 The dump body shall be equipped for the installation of a minimum of one six inch side board.</p> <p>.5 The dump body sides, tailgate and header shall be constructed utilizing minimum 10 gauge steel. The floor shall be a minimum of 3/16 inch steel.</p> <p>.6 The dump body shall be designed to include deep section rub rails and tailgate braces. The rub rails and braces must be tapered to prevent the accumulation of material.</p> <p>.7 The dump body shall incorporate a double locking tailgate with combined spreader and drop chains. Ladders shall be provided on both sides of the box.</p> <p>.8 The dump body header shall incorporate a cab shield which extends forward a minimum of 330 mm (13 inches).</p> <p>.9 The vehicle shall be equipped with a heavy duty, telescopic, front mounted, hydraulic dump body lift hoist. The hoist shall be a minimum 18,200 kg (20 tons) capacity and the tipping angle shall be 50 degrees, minimum.</p> <p>.10 The hoist controls shall be mounted in the cab allowing easy access for operation by the driver. The control switch shall be detent type with protective shield to prevent unintentional operation.</p> <p>.11 The dump body shall be equipped with a</p> | <p>COMPLY (Yes/No) : _____<br/>DETAILS: _____</p> <p>COMPLY (Yes/No) : _____</p> <p>COMPLY (Yes/No) : _____<br/>DETAILS: _____<br/>_____</p> <p>COMPLY (Yes/No) : _____</p> <p>COMPLY (Yes/No) : _____<br/>DETAILS: _____<br/>_____</p> <p>COMPLY (Yes/No) : _____<br/>ACTUAL: _____<br/>TYPE: _____<br/>CAPACITY: _____<br/>ANGLE: _____</p> <p>COMPLY (Yes/No) : _____<br/>DETAILS: _____<br/>_____</p> <p>COMPLY (Yes/No) : _____</p> |
|---|--|

self-storing locking bar which is capable of safely supporting the dump box, allowing the hoist to be serviced.

- .12 All dump body mounted lights shall be recessed and protected from damage. All wiring shall be installed inside of a loom and securely fastened to the body.

COMPLY (Yes/No) : \_\_\_\_\_

## 7.2 Welding

- .1 All welding on the dump body shall be continuous. The surfaces of parts to be welded shall be free from corrosion, paint, grease and other foreign matter. The welds shall be neat and smooth and weld penetration shall provide for maximum design strength without failure through the base metal junction.

COMPLY (Yes/No) : \_\_\_\_\_

## 8.0 **HYDRAULICS**

### 8.1 Hydraulic System

- .1 The hydraulic system of the vehicle shall include adequate oil capacity, filtration (with replaceable filters), pressure control devices, relief devices and all other equipment necessary to ensure the safe and satisfactory operation of the vehicle complete with attached snowplow equipment indicated in this specification.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- .2 The vehicle shall be equipped with a front crankshaft direct driven "Tyrone dry mode" or equivalent hydraulic pump. The pump should have an air operated engage/disengage switch.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- .3 The pump drive shaft shall be heavy duty type, having needle roller bearing universal joints and a splined slip joint.
- .4 The front mounted pump shall be installed independently from the front push frame and must remain with the chassis.
- .5 The hydraulic hoses between the vehicle and the plows systems shall be equipped with self-sealing quick connect/disconnect couplings.
- .6 The vehicle shall be equipped with in cab mounted air controls. The controls shall be feathering proportional type allowing the operator to easily raise or lower the plows to any desired position. The controls shall be located to allow easy access for operation by the driver.
- .7 All air control lines shall be colour tagged for easy identification.
- .8 The exterior air/hydraulic control valves shall be mounted in a box to protect them from the elements.
- .9 The supplied hydraulic oil shall be "Dextron II" or approved equivalent.
- .10 All hydraulic hoses shall be secured and be protected from damage as a result of vibration and chafing. The hydraulic hoses must be able to remain flexible to minus 40 degrees Celsius.
- .11 The hydraulic system shall be fitted with a relief valve to prevent any damage to any components through improper system

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

operation.

## 9.0 SNOW PLOWS

### 9.1 Overview

- .1 The snow plows supplied and installed under this specification shall be ruggedly built from new material, hydraulically operated, one way type roll over front plow and wing plow combination. The plows shall be capable of high volume, high speed snowplowing without blowover, or spillover between plow blades, at speeds up to 65 kph on airport runways and applied snow removal operations.

- .2 The snowplows design and operation shall incorporate all devices and attachments necessary to ensure a maximum level of safety.

### 9.2 Dimensions

- .1 The overall dimensions of the roll over front plow should be a minimum of 3658 mm (144 inches) wide at the ground line, with an intake height of 610 mm (24 inches) and a discharge height of 1524 mm (60 inches).

- .2 The overall dimensions of the wing plow should be a minimum of 3353 mm (132 inches) wide at the ground line, with an intake height of 762 mm (30 inches) and a discharge height of 1219 mm (48 inches).

### 9.3 Roll Over Front Plow

- .1 The roll over front plow shall be pivoted at the drive frame, and equipped with heavy duty

FRONT PLOW  
MAKE/MODEL: \_\_\_\_\_

WING PLOW  
MAKE/MODEL: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ACTUAL: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ACTUAL: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_

lift chains and hooks and with adjustable steady bars to provide for regulating the pitch angle of the cutting edge with the ground. The plow assembly must be readily detachable from the drive frame.

- .2 The moldboard shall be formed sheet steel, one piece construction, minimum 10 gauge (3.4 mm) thickness, supported by a minimum of five vertical and two horizontal continuous reinforcements. Additional reinforcing must be provided at the moldboard top and bottom edges, the intake (landslide plate) and discharge edges, the drive frame attachment points and the cutting edge attachment points.

- .3 The plow shall be equipped with a replaceable steel cutting edge, complete with a tungsten-carbide insert, hole punched at 102 mm (4 inches) on center and attached with plow head bolts.

- .4 The fixed angle drive frame shall be oscillating type with stabilizing drive bars to permit the plow to follow surface contours without constraint.

- .5 The drive frame shall be heavy duty, steel construction and shall be designed to distribute plowing stresses evenly across the moldboard reinforcements.

- .6 The drive frame shall be equipped with a safety trip device to cushion the tripping action at all plow speeds. The device should be spring action and easily adjustable with infinite settings.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.7 The drive frame shall be equipped with a minimum of two, vertically adjustable wear shoes. Each shoe shall be a minimum of 3226 sq mm (50 sq in) contact area, constructed from cold rolled steel or cast steel minimum SAE grade 0105. Cast iron shoes are not acceptable. The shoes shall be complete with replaceable wear plates with carbide inserts.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.8 The drive frame shall be readily detachable from the push frame.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9.4 Wing Plow

.1 The wing plow shall be pivoted at the front post and at the rear braces. The rear support braces shall be adjustable to provide for regulating the pitch angle of the cutting edge with the ground. The plow assembly must be readily detachable from the vehicle mounting points.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.2 The moldboard shall be formed sheet steel, one piece construction, minimum 10 gauge (3.4 mm) thickness, supported by a minimum of five vertical and two horizontal continuous reinforcements. Additional reinforcing must be provided at the moldboard top and bottom edges, the intake and discharge edges, the vehicle attachment points and the cutting edge attachment points.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.3 The plow shall be equipped with a replaceable steel cutting edge, complete with a tungsten-carbide insert, hole punched at 102 mm (4 inches) on center and attached with plow head bolts.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.4 The front of the wing plow shall be supported on a minimum 44 mm (1.75 inch) diameter, heavy duty pivot bolt attached to an adjustable vertical post assembly. The post assembly shall be affixed to the push frame, with horizontal heavy duty steel support, braced as necessary. The post assembly shall be heavy duty steel construction, should be operated by a chain/slide plate mechanism and shall be capable of raising the front of the wing a minimum of 152 mm (6 inches) off the ground.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.5 The rear of the wing plow shall be supported on a hydraulically operated, pivoted assembly of steel braces capable of raising the rear of the plow a minimum of 1930 mm (76 inches) off the ground.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.6 The rear of the wing plow shall be equipped with a heavy duty, fabricated, steel boxed section affixed to a minimum of two of the horizontal wing reinforcements.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.7 Two heavy duty steel, parallel wing braces shall attach, one to the top and one to the bottom of the boxed section at the wing. The opposite ends of the braces shall be attached to a support frame at the vehicle.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.8 The support frame at the vehicle shall be heavy duty steel construction, located behind the cab and be affixed to the chassis frame rails. Install additional cross members and reinforcing, as required, at the chassis rails to evenly distribute the loads from the wing plow.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## 9.5 Push Frame

- .1 The vehicle shall be equipped with a custom fabricated push frame mounted on the front of the vehicle chassis rails and designed to transmit plowing forces directly to the rails.
- .2 The push frame shall be designed to fit as close to the vehicle grill as possible to minimize the overall length of the vehicle/plow configuration.
- .3 The push frame shall be a hydraulically locked/unlocked, tilt forward design to allow for front access to the engine compartment.
- .4 Side plates, gussets, and other major reinforcing components shall be fabricated from minimum 12.7 mm (0.5 inch) steel plate of proper grade, size, design and construction for heavy duty service and shall provide for adequate clearance for steering and suspension components.
- .5 Where the push frame attaches to the vehicle frame, the vehicle frame shall be reinforced with additional steel plate and/or steel sections, as required. This additional reinforcing is intended to reduce the stress of loads on the vehicle frame imposed by the push frame and attached plows.
- .6 The push frame shall be equipped with a positive locking mechanism utilizing minimum 32 mm (1.25 inch) steel plow connection pins, to make the connection with the front plow drive frame. The design shall allow for a minimum of two pin heights.
- .7 The push frame shall be equipped with square or rectangular steel sections extending out

COMPLY (Yes/No) : \_\_\_\_\_  
MAKE/MODEL: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
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\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
WING SUPPORT



towards the sides to act as a vehicle front bumper. The right side extensions can be utilized as the support framework for the wing plow front post assembly. If used for wing support, the extensions must be designed to carry the loads imposed by the wing plow.

- .8 The roll over front plow lifting mechanism shall be an integral component of the push frame. The lifting mechanism shall be a heavy duty steel fabrication, hydraulically operated and capable of lifting the roll over front plow a minimum of 305 mm (12 inches) off the ground.

## 9.6 Lights

- .1 The vehicle shall be equipped with two, hi/lo sealed beam, double filament or hi/lo halogen plowing lights mounted on and located above the push frame utilizing pedestal type brackets. The lights must be capable of illuminating the work area ahead of the vehicle with the plow in the raised or the lowered position.

- .2 The vehicle shall also be equipped with two high intensity lights having a minimum of 5000 candle power. The lights shall be mounted on pedestal brackets and located to illuminate the plowing area when the plow is in the working position. The lights shall be mounted so as not to interfere with the driver's visibility.

- .3 The vehicle shall be equipped with separate breakers for each set of plow lights and separate dash mounted switches to control each set of plow lights.

DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_

.4 The vehicle shall be equipped with turn signals mounted to be visible from the front of the vehicle with the plow in the raised or the lowered position.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10.0 EXTRA EQUIPMENT

10.1 Fifth Wheel

.1 The vehicle shall be equipped with a fifth wheel, Holland # FW 6000 or equivalent to be compatible with a two inch kingpin, Holland # KPT 807, or equivalent.

COMPLY (Yes/No) : \_\_\_\_\_  
MAKE/MODEL: \_\_\_\_\_  
\_\_\_\_\_

.2 To minimize the overall length of the vehicle configuration, the fifth wheel shall be located to fit as close to the back of the vehicle as possible, without impeding other vehicle functions.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.3 The fifth wheel assembly shall be bolted to the vehicle frame to allow for removal, if required. Provide additional frame reinforcement, as required at the area of attachment.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

.4 The centreline of the fifth wheel shall be in line with the centreline of the rear axle.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_

.5 The vehicle shall be equipped with full, standard trailer connections, including air and electrical connections mounted in the vicinity of the fifth wheel.

COMPLY (Yes/No) : \_\_\_\_\_  
DETAILS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10.2 Cold Start

.1 The vehicle should be equipped with an

COMPLY (Yes/No) : \_\_\_\_\_

electronically controlled air intake heater system if available.

### 10.3 Helper Spring(s)

- .1 The vehicle shall be equipped with Aeon type rubber helper spring(s) on the vehicle's right side, as required to offset the added weight of the wing plow. The added capacity shall be a minimum of 907 kg (2000 lb) and the added capacity is not to be added to the vehicle's GVWR. With the helper spring(s) installed, the vehicle must sit level when the wing is raised.

DETAILS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 COMPLY(Yes/No) : \_\_\_\_\_  
 TYPE/BRAND: \_\_\_\_\_

### 10.4 Shutdown Switch

- .1 To guard against unnecessary drain on the vehicle's batteries, the vehicle shall be equipped with a electrical system master shutdown switch, conveniently located in the vehicle cab. With the exception of essential electronic and computer systems, the switch shall be capable of complete shutdown of all of the vehicle's electrical systems.

COMPLY(Yes/No) : \_\_\_\_\_  
 DETAILS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

### 10.5 Diagnostics

- .1 The vehicle should be supplied with any diagnostic peripherals associated with the vehicle engine, including any documentation, cartridges, CDs and cables available that work with diagnostic engine scan equipment.

COMPLY(Yes/No) : \_\_\_\_\_  
 DETAILS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_