



**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, 2nd Floor

Box 4600

St. John's, NF

A1C 5T2

Bid Fax: (709) 772-4603

**INVITATION TO TENDER**

**APPEL D'OFFRES**

**Tender 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.

**Soumission 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 et sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

**Vendor/Firm Name and Address**

Raison sociale et adresse du  
fournisseur/de l'entrepreneur

**Issuing Office - Bureau de distribution**

PWGSC / TPSGC - Nfld. Region

Cabot Place, Phase II, 2nd Floor

Box 4600

St. John's, NF

A1C 5T2

<b>Title - Sujet</b> Plow Truck - Wabush Airport	
<b>Solicitation No. - N° de l'invitation</b> T2012-180020/A	<b>Date</b> 2018-09-05
<b>Client Reference No. - N° de référence du client</b> T2012-180020	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$OLZ-002-7173
<b>File No. - N° de dossier</b> OLZ-8-41105 (002)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2018-10-17</b>	
<b>Time Zone</b> Fuseau horaire Newfoundland Daylight Saving Time NDT	
<b>F.O.B. - F.A.B.</b> <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> Dalton, Colleen	<b>Buyer Id - Id de l'acheteur</b> olz002
<b>Telephone No. - N° de téléphone</b> (709) 772-4931 ( )	<b>FAX No. - N° de FAX</b> (709) 772-4603
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> Airport Manager Wabush Airport P.O. Box 880 Wabush Labrador, NL A0R 1B0	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

### **1.1 Requirement**

The Department of Transport has a requirement to purchase one (1) new 2018/19 dump truck equipped with a front mounted 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 to enable the unit to function reliably and efficiently under all conditions of service.

### **1.2 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 from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### **1.3 Trade Agreements**

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

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## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions 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 (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

### **2.2 Submission of Bids**

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

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than 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 question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

### **2.4 Applicable Laws**

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

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

### **3.1 Bid Preparation Instructions**

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

Section I: Technical Bid (One hard copies)

Section II: Financial Bid (One hard copies)

Section III: Certifications (One hard copies)

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) (<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 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 Applicable Taxes must be shown separately.

#### **3.1.2 SACC Manual Clauses**

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

Bidders must submit the certifications and additional information required under Part 5.

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

### **4.1 Evaluation Procedures**

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

#### **4.1.1 Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria [Must be completed by offeror with bid submission]**

To be deemed responsive, offerors **must** meet the following:

**- Please check (✓) accordingly:**

Meets **all** specifications and conditions stated in Annex "B", Technical Specification.

MET \_\_\_\_\_ NOT MET \_\_\_\_\_

#### **4.1.2 Financial Evaluation**

*SACC Manual* Clause [A0220T](#) (2014-06-26), Evaluation of Price

### **4.2 Basis of Selection**

#### **4.2.1 Basis of Selection – Mandatory Technical Criteria**

*SACC Manual* Clause A0031T (2010-08-16) 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.

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## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

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

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

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

### **5.1 Certifications Required with the Bid**

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

#### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

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

### **5.2 Certifications Precedent to Contract Award and Additional Information**

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

#### **5.2.1 Integrity Provisions – Required Documentation**

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

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

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### **6.1 Security Requirements**

**6.1.1** There is no security requirement applicable to the Contract.

### **6.2 Requirement**

The Department of Transport has a requirement to purchase one (1) new 2018/19 dump truck equipped with a front mounted 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 to enable the unit to function reliably and efficiently under all conditions of service.

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

#### **6.3.1 General Conditions**

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

### **6.4 Term of Contract**

#### **6.4.1 Delivery Date**

All the deliverables are requested on or before November 30, 2018.

What is the best delivery available: \_\_\_\_\_

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#### **6.4.2 Delivery Points**

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract. FOB Destination.

Airport Manager  
Wabush Airport  
P O Box 880  
Wabush, Labrador  
AOR 1B0

#### **6.5 Authorities**

##### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Colleen Dalton

Supply Specialist

Public Works and Government Services Canada  
Acquisitions Branch  
The John Cabot Building, 7<sup>th</sup> Floor  
St. John's NL A1C 5T2

Telephone: 709-772-4931

Facsimile: 709-772-2932

E-mail address: colleen.dalton@pwgsc-tpsgc.gc.ca

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

##### **6.5.2 Project Authority**

The Project Authority for the Contract is:

Kristen Scott

506-961-8243

Kristen.scott@tc.gc.ca

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

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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

### 6.5.3 Contractor's Representative

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

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

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

## 6.6 Payment

### 6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a *firm price as specified in contract* a cost of \$ \_\_\_\_\_. 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.

### 6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2011-05-16) Limitation of Price

## 6.7 Invoicing Instructions

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.

## 6.8 Certifications and Additional Information

### 6.8.1 Compliance

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

## 6.9 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.

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#### **6.10 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 (2018-05-22)
- (c) Annex A, Requirement;
- (d) Annex B, Specification;
- (e) the Contractor's bid dated \_\_\_\_\_

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**ANNEX "A"**

**REQUIREMENT**

Transport Canada has a requirement to purchase one (1) new 2018/19 dump truck equipped with a front mounted 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 to enable the unit to function reliably and efficiently under all conditions of service. All items noted as per the mandatory technical specification in Annex "B".

<b>Item No.</b>	<b>Description</b>	<b>Qty</b>	<b>Unit Price</b>	<b>Total</b>
<b>1</b>	Dump truck equipped with a front mounted snow plow, wing plow and a fifth wheel towing configuration.	<b>1</b>	<b>\$</b>	<b>\$</b>
<b>2</b>	Shipping & Handling (Estimated)			<b>\$</b>
<b>Total (HST extra)</b>				<b>\$</b>

Shipping of the 1 unit to final destination Wabush Airport, Wabush Labrador.

Note:

All mandatory requirements must be met to be deemed responsive in order to have the submitted tender evaluated based on price. The lowest responsive tender will be recommended for award of the contract.

Shipping and handling is an estimate only. Actual costs will be paid based on invoice with no mark- up.

All deliverables are requested on or before 30 November 2018.

What is the best possible delivery date\_\_\_\_\_

**FOB Destination:**

Wabush Airport

Attn : Airport Manager

Wabush, Labrador AOR 1B0

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**Annex B**  
**Mandatory Criteria**

**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.

Met  Yes  No

Comments: \_\_\_\_\_

**Manuals**

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

**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.

Met  Yes  No

Comments: \_\_\_\_\_

**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.

Met  Yes  No

Comments: \_\_\_\_\_

**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.

Met  Yes  No

Comments: \_\_\_\_\_

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**Operators Manual**

Provide a minimum of one copy of the operator's manual.

Met  Yes  No

Comments: \_\_\_\_\_

**CAB AND CHASSIS**

**G.V.W.R.**

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

Met  Yes  No

Comments: \_\_\_\_\_

**Dimensions**

The maximum turning radius should be 9.5 m (31.0 ft) to the centreline of the front tire as per SAE J695.

Met  Yes  No

Comments: \_\_\_\_\_

The cab to axle centre dimension should be a minimum of 2108 mm (83 inches) and a maximum of 2339 mm (92 inches).

Met  Yes  No

Comments: \_\_\_\_\_

The bumper to back of cab dimension should be a minimum of 2565 mm (101 inches) and a maximum of 896 mm (114 inches).

Met  Yes  No

Comments: \_\_\_\_\_

**Engine**

The engine shall be a liquid cooled diesel.

Met  Yes  No

Comments: \_\_\_\_\_

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The engine shall have a minimum 350 net horsepower rating. Manufacturer's published literature or performance tests indicating the values noted must be supplied.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

### **Transmission**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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 shifted into reverse.

Met  Yes  No

Comments: \_\_\_\_\_

The shift quadrant control must be illuminated.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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### **Suspension**

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.

Met  Yes  No

Comments: \_\_\_\_\_

The rear suspension shall be complete with auxiliary springs.

Met  Yes  No

Comments: \_\_\_\_\_

### **Transfer Case**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

### **Frame**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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All frame components shall be bolted together allowing for replacement.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

### **Axles**

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).

Met  Yes  No

Comments: \_\_\_\_\_

The vehicle shall be equipped with a rear axle with a standard differential and a minimum capacity of 5842 kg (23,000 lb).

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

### **Wheels and Tires**

The front rims should be single wheel, size 12.25 x 22.5.

Met  Yes  No

Comments: \_\_\_\_\_

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The rear rims should be single or dual wheel, size 8.25 x 22.5.

Met  Yes  No

Comments: \_\_\_\_\_

All wheels on the vehicle should be of the same type.

Met  Yes  No

Comments: \_\_\_\_\_

All wheels shall comply with the axle manufacturer's rating for imposed loads and operating conditions.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

**Steering**

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

Met  Yes  No

Comments: \_\_\_\_\_

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### **Fuel Tank**

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.

Met  Yes  No

Comments: \_\_\_\_\_

### **Exhaust**

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.

Met  Yes  No

Comments: \_\_\_\_\_

### **Brakes**

The vehicle shall be equipped with full air brakes and should incorporate the following:

Minimum 16.5 CFM air compressor. Met  Yes  No

Spring applied, air release parking brakes. Met  Yes  No

Minimum 16.5 x 5 "S-cam" or "Wedge" front brakes with automatic adjusters. Met  Yes  No

Minimum 16.5 x 7 "S-cam" rear brakes with automatic adjusters. Met  Yes  No

Bendix AD-9, or equivalent, heated air dryer complete with moisture ejector. Met  Yes  No

Dash mounted pressure gauge with low pressure warning light and buzzer. Met  Yes  No

Comments: \_\_\_\_\_

### **Electrical**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

The vehicle should be equipped with an in-cab warning light and audible alarm to indicate all of the following conditions; high coolant temperature, low coolant level, high transmission temperature and low engine oil pressure.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

### **Cab**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

The cab access handles should be stainless steel or chrome plated steel securely installed in a convenient location.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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The cab shall be equipped with a tinted front windshield.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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).

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

The cab shall be equipped with driver and passenger sun visors.

Met  Yes  No

Comments: \_\_\_\_\_

The cab shall be equipped with operable windows in each side door. The windows shall be electrically powered with door mounted controls. An additional lower side window should be installed on the passenger side door.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

**Mud Flaps**

The vehicle shall be equipped with full mud flaps behind the rear wheels. The mud flaps should be mounted to the vehicle frame with spring-loaded hangers.

Met  Yes  No

Comments: \_\_\_\_\_

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**Painting**

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.

Met  Yes  No

Comments: \_\_\_\_\_

**Instruction Identification**

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.

Met  Yes  No

Comments: \_\_\_\_\_

**DUMP BODY**

**Body and Hoist**

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.

Met  Yes  No

Comments: \_\_\_\_\_

The inside walls of the dump body shall be vertical and 90 degrees to the floor.

Met  Yes  No

Comments: \_\_\_\_\_

The dump body tailgate should be a minimum of 1067 mm (42 inches) high.

Met  Yes  No

Comments: \_\_\_\_\_

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The dump body shall be equipped for the installation of a minimum of one six inch side board.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

The dump body header shall incorporate a cab shield which extends forward a minimum of 330 mm (13 inches).

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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The dump body shall be equipped with a self-storing locking bar which is capable of safely supporting the dump box, allowing the hoist to be serviced.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

### **Welding**

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.

Met  Yes  No

Comments: \_\_\_\_\_

### **HYDRAULICS**

#### **Hydraulic System**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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The pump drive shaft shall be heavy duty type, having needle roller bearing universal joints and a splined slip joint.

Met  Yes  No

Comments: \_\_\_\_\_

The front mounted pump shall be installed independently from the front push frame and must remain with the chassis.

Met  Yes  No

Comments: \_\_\_\_\_

The hydraulic hoses between the vehicle and the plows systems shall be equipped with self-sealing quick connect/disconnect couplings.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

All air control lines shall be colour tagged for easy identification.

Met  Yes  No

Comments: \_\_\_\_\_

The exterior air/hydraulic control valves shall be mounted in a box to protect them from the elements.

Met  Yes  No

Comments: \_\_\_\_\_

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The supplied hydraulic oil shall be "Dextron II" or approved equivalent.

Met  Yes  No

Comments: \_\_\_\_\_

All hydraulic hoses shall be secured and be protected from damage as a result of vibration and chaffing. The hydraulic hoses must be able to remain flexible to minus 40 degrees Celsius.

Met  Yes  No

Comments: \_\_\_\_\_

The hydraulic system shall be fitted with a relief valve to prevent any damage to any components through improper system operation.

Met  Yes  No

Comments: \_\_\_\_\_

## **SNOW PLOWS**

### **Overview**

The snow plows supplied and installed under this specification shall be ruggedly built from new material, hydraulically operated, one way type 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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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### **Dimensions**

The overall dimensions of the 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).

Met  Yes  No

Comments: \_\_\_\_\_

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).

Met  Yes  No

Comments: \_\_\_\_\_

### **Front Plow**

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

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

### **Wing Plow**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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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.

Met  Yes  No

Comments: \_\_\_\_\_

**Push Frame**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

The push frame shall be a hydraulically locked/unlocked, tilt forward design to allow for front access to the engine compartment.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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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.

Met  Yes  No

Comments: \_\_\_\_\_

The push frame shall be equipped with square or rectangular steel sections extending out 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.

Met  Yes  No

Comments: \_\_\_\_\_

The 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 front plow a minimum of 305 mm (12 inches) off the ground.

Met  Yes  No

Comments: \_\_\_\_\_

### **Lights**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

### **EXTRA EQUIPMENT**

#### **Fifth Wheel**

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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.

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

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

Met  Yes  No

Comments: \_\_\_\_\_

### **Cold Start**

The vehicle should be equipped with an electronically controlled air intake heater system if available.

Met  Yes  No

Comments: \_\_\_\_\_

### **Helper Spring(s)**

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.

Met  Yes  No

Comments: \_\_\_\_\_

### **Shutdown Switch**

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.

Met  Yes  No

Comments: \_\_\_\_\_

### **Diagnostics**

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.

Met  Yes  No

Comments: \_\_\_\_\_

A detailed specification of the product being offered included with the bid package.

Met  Yes  No

Comments: \_\_\_\_\_

