

**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, NF  
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> Transport Cnd - Six Wheel Grader	
<b>Solicitation No. - N° de l'invitation</b> T2012-150010/A	<b>Date</b> 2015-05-26
<b>Client Reference No. - N° de référence du client</b> T2012-150010	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$OLZ-010-6360	
<b>File No. - N° de dossier</b> OLZ-5-38048 (010)	<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 2015-07-07</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Newfoundland Daylight Saving Time NDT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Connolly, Carolyn	<b>Buyer Id - Id de l'acheteur</b> olz010
<b>Telephone No. - N° de téléphone</b> (709) 772-5396 ( )	<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> DEPARTMENT OF TRANSPORT HERITAGE CRT 95 FOUNDRY ST P.O.BOX 42 MONCTON New Brunswick E1C8K6 Canada	

**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 / TPSGC - Nfld. Region  
Cabot Place, Phase II, 6th Floor  
Box 4600  
St. John's, NF  
A1C 5T2

<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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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**Request for Proposal  
T2012-150010/A:  
Transport Canada - Six Wheel Drive Grader**

(Document Attached)

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Statement of Work**

The requirement is detailed under Annex "A" of the resulting contract clauses.

Transport Canada has a requirement for the supply and delivery of a six-wheel drive grader that will be used in an airport setting (St. Anthony Airport). A detailed specification can be found at Annex "A" and in the attached specification. ***Offerors must complete the chart of mandatory criteria in the attached specification package.***

Grader is to be delivered FOB Destination to:

St. Anthony Airport  
1 Airport Road  
St. Anthony, NL A0K 4C0  
Canada

### **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.

## **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** (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: sixty (60) days

Insert: ninety (90) days

### **2.2 Submission of Bids**

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

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

All enquiries must be submitted 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 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.

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

### **3.1 Bid Preparation Instructions**

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

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

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

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

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

##### **3.1.1 Exchange Rate Fluctuation**

*SACC Manual* Clause C3011T (2013-11-06), Exchange Rate Fluctuation

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

Bidders must submit the certifications required under Part 5.

## **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 [To be completed by offeror with bid submission]**

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

- **Please check accordingly:**

(a) Meets **all** specifications and conditions stated in Annex "A", Requirement and the attached specifications:

Met \_\_\_\_\_ Not Met \_\_\_\_\_

(b) Completed, in full, mandatory criteria chart in the attached specification:

Met \_\_\_\_\_ Not Met \_\_\_\_\_

- *SACC Manual Clause B1000T (2014-06-26) Condition of Material*

#### **4.1.2 Financial Evaluation**

*SACC Manual Clause A0222T (2014-06-26), Evaluation of Price – Canadian/Foreign Bidders*

### **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*

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## **PART 5 - CERTIFICATIONS**

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

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, 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 may render the bid non-responsive or constitute a default under the Contract.

### **5.1 Certifications Precedent to Contract Award**

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

#### **5.1.1 Integrity Provisions - Associated Information**

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions [2003](#) (2014-09-25). The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

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

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

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

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## **PART 6 – INSURANCE REQUIREMENTS**

### **6.1 Insurance Requirements**

*SACC Manual clause G1005C (2008-05-12) Insurance*

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## **PART 7 - RESULTING CONTRACT CLAUSES**

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

### **7.1 Security Requirements**

**7.1.1** There is no security requirement applicable to this Contract.

### **7.2 Requirement**

The Contractor must provide the items detailed under the "Requirement" at Annex "A" and the attached specifications.

### **7.3 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.

#### **7.3.1 General Conditions**

[2010A](#) (2014-11-27), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### **7.4 Term of Contract**

#### **7.4.1 Delivery Date**

All the deliverables must be received on or before 120 calendar days after Contract award.

### **7.5 Authorities**

#### **7.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Carolyn Connolly  
Contracting Officer  
Public Works and Government Services Canada  
Acquisitions Branch, Atlantic Region  
Science, Professional Services and Marine  
The John Cabot Building, 10 Barter's Hill  
P.O. Box 4600, St. John's, NL A1C 5T2

Telephone: (709) 772-5396  
Facsimile: (709) 772-4603  
E-mail address: [carolyn.connolly@pwgsc.gc.ca](mailto:carolyn.connolly@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.

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## 7.5.2 Project Authority

The Project Authority for the Contract will be named at Contract award.

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.

## 7.5.3 Contractor's Representative [To be Completed by Offeror with Bid Submission]

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

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

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

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

\_\_\_\_\_

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

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

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

## 7.6 Payment

### 7.6.1 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 Annex "A" Pricing for a cost of \$ \_\_\_\_\_ (inserted 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.

### 7.6.2 Limitation of Price

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

### 7.6.3 Single Payment

*SACC Manual* clause H1000C (2008-05-12) Single Payment

### 7.6.4 SACC Manual Clauses

*SACC Manual* Clause C2000C (2007-11-30), Taxes – Foreign-Based Contractor

## 7.7 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:

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- (a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## 7.8 Certifications

### 7.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## 7.9 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.

## 7.10 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 (2014-11-27), General Conditions - Goods (Medium Complexity);
- (c) Annex "A", Requirement/Pricing;
- (d) Annex "B", Information for Code of Conduct Certification; and
- (e) 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)*)

## 7.11 SACC Manual Clause

SACC Manual Clause A9049C (2011-05-16), Vehicle Safety

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**ANNEX "A"**  
**REQUIREMENT/PRICING**

**Requirement:**

Transport Canada has a requirement for the supply and delivery of a six-wheel drive grader that will be used in an airport setting (St. Anthony Airport). A detailed specification is attached.

**\* NOTE TO OFFERORS: Offerors must complete the chart of mandatory criteria in the attached specification package. \***

Grader is to be delivered FOB Destination to:

St. Anthony Airport  
1 Airport Road  
St. Anthony, NL A0K 4C0  
Canada

**Pricing:**

Item/Destination	Unit of Issue	Pricing (HST Extra)
Six-wheel drive grader meeting all required specifications listed in the attached specification.	1 Each	\$ _____
Shipping FOB Destination to: St. Anthony Airport 1 Airport Road St. Anthony, NL A0K 4C0 Canada	1 Lot	\$ _____
Total (HST Extra):		\$ _____

- Goods to be delivered FOB destination.
- The Bidder must provide individual prices for each item and/or destination. Failure to do so will render bid non-responsive.

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**ANNEX "B"**  
**INFORMATION FOR CODE OF CONDUCT CERTIFICATION**

**[MUST BE COMPLETED BY OFFEROR WITH BID SUBMISSION]**

Please provide list of names of the following entities, according to the ownership nature of the company

1. For a Corporation - each current member of the Bidder's Board of Directors;

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2. For a Sole Proprietorship or an individual doing business under a firm name - the name of the sole proprietor or individual;

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3. For a Joint Venture - the names of all current members of the Joint venture;

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4. For an individual - the full name of the person;

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**EQUIPMENT SPECIFICATIONS**

**Six-Wheel Grader**

Transport Canada – St. Anthony Airport, NL

## GENERAL SPECIFICATIONS

### 1. *Proven Equipment*

The equipment model that is offered and proposed by the contractor must have been tried and tested for at least three (3) years, according to the requested specifications. The equipment must be new and cannot be a floor model.

### 2. *Safety Standards*

The contractor must provide the manufacturer's certification specifying that the vehicle (chassis) meets or exceeds the following requirements or equivalent, upon request of the project authority.

FMVSS 571-103	Windshield defrosting and defogging systems (in compliance with J1944, J198)
FMVSS 571-121	Air brake systems
FMVSS 571-207	Seating systems
FMVSS 571-210	Seat belt assembly anchorages
40 CFR CH.1	Noise levels (in compliance with SAE J366)
FMCSR 393.94	Interior noise levels in power units
FMVSS 571-101	Controls and displays
FMVSS 571-108	Lamps, reflective devices, and associated equipment
FMVSS 571-120	Tire selection and rims for vehicles other than motor vehicles
FMVSS 571-206	Door locks and door retention components
FMVSS 271-209	Seat belt assemblies
FMCSR 393-65	All fuel systems
FMCSR 205	Window glazing materials
FMCSR 302	Flammability of interior materials

### 3. *Safely Accessing, Entering and Exiting the Cab and Engine Bloc*

The chassis will be designed for safe and easy access as well as the unit's disassembly by operators and personnel. The sheet metal, hood, steps and shock absorbers will not have any edges or sharp corners and will include braces and supports to prevent deformation and fissures. Handles will be installed, as required for safe assembly and disassembly.

The cab will be completely enclosed, thermally insulated and soundproof (85 decibels and under).

### 4. *Manuals – English Version (and French if available)*

- a) Parts manual: two (2) copies and the manual must list each part individually.
- b) Operator's manual: two (2) copies.
- c) CD/DVD: CD/DVD showing the operations, adjustment sequences and daily maintenance required on this equipment is requested if produced by manufacturer.

- d) The contractor must mention if the maintenance manuals and parts lists are available on the Internet. If so, the contractor must provide the passwords, if required, to access the manufacturer's site.

The contract will not be considered complete until the requested manuals are received at the equipment's delivery address.

### **5. Operator and Mechanic Training**

The contractor must provide training related to operation and maintenance to Transport Canada's personnel at the St. Anthony Airport. This training period will be equivalent to one (1) eight (8) hour work shift. The instructor must be certified by the manufacturer.

### **6. Safety Equipment**

The contractor must provide the necessary safety equipment (fire extinguishers and safety triangles).

### **7. Systems**

The proposed equipment must include all the hydraulic, pneumatic, mechanical, electrical and electronic systems and the controls necessary for the equipment's proper operation, according to the technical requirements.

### **8. Attachments**

The contractor must include all the attachments required for the proposed equipment's proper operation.

### **9. Inspection**

The contractor is responsible to ensure that the vehicle is thoroughly tested, inspected and that all deviations are corrected prior to delivery. A final inspection shall be completed by the consignee at the time and point of delivery at the airport.

### **10. Warranty**

All assemblies (engines, gear boxes, differentials, clutch and transmission) must be protected by a warranty covering parts and labor for a period of at least 2,000 hours of use or 24 months and taking effect from the date of commissioning of the grader.

All the components and accessories, with the exception of the sets mentioned above, must be protected by a warranty covering parts and labor for a period of at least 1,000 hours of use or 18 months and taking effect from the date of commissioning of the grader.

The contractor must provide an estimated time for repairs within a period of 24 hours following a request for repair. As long as the warranty remains applicable, the contractor will be responsible for the repairs without any additional costs to the place of delivery. If the repairs cannot be made on site, the contract shall assume all costs to transport

(towing, insurance, meals, accommodation, salary, if applicable, etc.) the grader. The grader shall be transported on a platform if regular towing could deteriorate the condition of the grader.

If the requested repairs are not started within 72 hours following the request, Transport Canada reserves the right to carry out the repairs and charge the contractor for the parts and the hours. These charges shall not exceed the standard time allocated for repair and will be based on their regular hourly rate.

The contractor shall provide detailed information on the standard manufacture warranty for the vehicle/equipment and its components if it exceeds the minimum warranty period specified in the contract. The additional warranty will be part of the proposed contract.

## **11. Delivery**

The loader shall be delivered to the St. Anthony Airport at 1 Airport Rd., St. Anthony, NL within 120 calendar days after the contract has been awarded. Delivery shall be included in the bid price.

## PARTICULAR SPECIFICATIONS

**Transport Canada requires the supply and delivery of a six-wheel drive grader that will be used in an airport setting and meets, at a minimum, the following criteria.**

**Mandatory:**

The bidder must provide manufacturer documentation and clearly demonstrate how their bid submission meets each point stated in the particular specifications section by indicating page number and/or document title where the point can be validated. The bidder's submission will be automatically disqualified if it does not meet the following requirements:

Specification	Page/Document Title	Met	Not Met
Grader: Tandem drive articulated grader			
Engine: Minimum four (4) cylinder, diesel, minimum 110 hp			
Transmission: Hydrostatic drive			
Foot-controlled, hydraulically operated brakes effective on all four wheels in tandem			
Snow Plus-type tires + a spare rim and tire, identical to those installed on the grader			
Fully enclosed soundproof cab, maximum 85 dB, heated and air-conditioned			
Driver controlled locking differential must be supplied on the rear axle, including a warning light			
Full power steering with emergency steer capability in the event of power failure			
Minimum 95 amp alternator			
Electrical system 12 volts. If the system is 24 volts, an adapter shall be installed to allow installation of radios and beacon lights.			
Block heater			
Minimum operating weight of the machine without optional equipment: 15 000 lbs			
Double acting hydraulic cylinders			
Hydraulic system must be complete with an independent left and right moldboard float, allowing it to follow the road contour			

10 foot long moldboard with a replaceable cutting edge			
Front and rear lights and lights for the moldboard			
"Strobe" type revolving light amber color			
Mobile VHF air band transceiver with exterior antenna (model ICOM IC-A110)			
Power exterior mirrors, heated			
Heavy duty windshield wipers and electric defroster for front and rear windows			
Seat with air suspension; armrest on both side of the seat			
Backup alarm			
Paint conspicuous color according to the manufacturer`s standards.			
The grader dimensions shall not exceed 144 inches in height (including strobe light) and 120 inches in width			
Provide two (2) complete sets of ice cutting edges.			
Provide maximum cold weather engine package optionally available			