



**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Public Works and Government Services Canada  
Telus Plaza North/Plaza Telus Nord  
10025 Jasper Ave./10025 ave. Jasper  
5th floor/5e étage  
Edmonton  
Alberta  
T5J 1S6  
Bid Fax: (780) 497-3510

## 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

Public Works and Government Services Canada  
Telus Plaza North/Plaza Telus Nord  
10025 Jasper Ave./10025 ave Jasper  
5th floor/5e étage  
Edmonton  
Alberta  
T5J 1S6

<b>Title - Sujet</b> Tandem Truck	
<b>Solicitation No. - N° de l'invitation</b> 5P412-130032/A	<b>Date</b> 2013-07-16
<b>Client Reference No. - N° de référence du client</b> PC	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$EDM-183-9880
<b>File No. - N° de dossier</b> EDM-3-36070 (183)	<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 2013-08-26</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Mountain Daylight Saving Time MDT	
<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> Tikhonovitch, Alex	<b>Buyer Id - Id de l'acheteur</b> edm183
<b>Telephone No. - N° de téléphone</b> (780) 497-3541 ( )	<b>FAX No. - N° de FAX</b> (780) 497-3510
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> PARKS CANADA Prince Albert National Park PO Box Box 100 WASKESIU Saskatchewan S0J2Y0 Canada	

**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. Security Requirement**

There is no security requirement associated with this bid solicitation.

**2. Requirement**

The requirement is detailed under Annex A - Requirement.

**3. Debriefings**

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

## **PART 2 - BIDDER INSTRUCTIONS**

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

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

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

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

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

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

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

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

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

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

Section I: Technical Bid ( 1 hard copy)

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.

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

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

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

Bidders must submit the certifications required under Part 5.

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

### **1. Evaluation Procedures**

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

### **1.1 Technical Evaluation**

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

Compliant with Annex A, Requirement

### **1.2 Financial Evaluation**

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

### **2. Basis of Selection**

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

## **PART 5 - CERTIFICATIONS**

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

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

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

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

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

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

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

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

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

### **1. Security Requirement**

There is no security requirement applicable to this Contract.

### **2. Requirement**

The Contractor must provide items including installation, demonstration, and training in accordance with the Requirement at Annex "A".

### **3. Standard Clauses and Conditions**

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

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

#### **3.1 General Conditions**

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

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

#### **4.1 Delivery Date**

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

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Alex Tikhonovitch  
Public Works and Government Services Canada  
Acquisitions Branch  
Western Region  
5th Floor Telus Plaza North  
10025 Jasper Avenue  
Edmonton, Alberta T5J 1S6

Telephone: (780) 497-3541  
Facsimile: (780) 497-3510  
E-mail address: alex.tikhonovitch@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.



## 5.2 Project Authority

The Project Authority for the Contract is: **To be determined**

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

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

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

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

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

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

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

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

## 5.3 Contractor's Representative:

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

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

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

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

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

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

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

## 6. Payment

### 6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot prices as specified in Annex "B"- Basis of Payment. Customs duties are included and Applicable Taxes are extra.

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

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

### 6.3 SACC Manual Clauses

SACC Manual clause C2000C (2007-11-30), Taxes - Foreign-based Contractor

## 7. Invoicing Instructions

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

## 8. Certifications

### 8.1 Compliance

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

## 9. Applicable Laws

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

## 10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2013-04-25), General Conditions - Goods (medium complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_

## 11. SACC Manual Clauses

*SACC Manual* clause B1501C (2006-06-16), Electrical Equipment

*SACC Manual* clause B7500C (2006-06-16), Excess Goods

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

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

Parks Canada Agency has a requirement for the supply and delivery of one (1) standard, current production unused tandem truck unit. This unit will be deployed in winter maintenance operations on through highways within the Prince Albert National Park.

**1.1. Description of System**

Heavy Truck, 6x4, Diesel, minimum 27,216 Kg (60,000 lbs) Gross Vehicle Weight Rating (GVWR);

The unit must be a standard, current production unused vehicle that is equipped with a hydraulic system and combination sander/dump box with front mounted one way plow. Units must be delivered ready for immediate use, with all specified equipment installed.

**1.2 Operating Conditions**

Unit must be capable of operation in ambient temperatures ranging from 45 degrees C down to minus 40 degrees C.

The unit must be complete with all accessories customarily furnished and installed on this type of vehicle, whether specified herein or not, to enable the vehicle to function reliably and efficiently under all conditions of service.

**1.3 Requirements of Regulatory Agencies**

The unit must comply in all respects with the Highway Act regulations of the Provinces of Saskatchewan  
The unit must comply with all applicable Canadian Motor Vehicle Safety Standards (CMVSS).

**1.4 Maintenance and Warranty**

Contractor must provide a shop service manual and service parts manual accurately identifying all components of the equipment.

Contractor must provide an operators manual and all applicable attachments.

Contractor must provide information indicating the details extent and duration of the warranty.

**1.5 Delivery**

Contractor must lubricate and service unit prior to delivery with all lubricants and associated products suitable for the climatic conditions in which the vehicle will operate.

Contractor must provide a minimum of 45 litres of fuel.

Unit must be delivered to the site specified.

All necessary documentation required for licensing the vehicle for road use, by the issuing provincial authority, must be provided to the consignee when unit is delivered.

Contractor must, at no extra cost, arrange with consignee to provide instruction, at the time of delivery, in the correct operating procedures, maintenance and running adjustments necessary to comply with the warranty conditions applicable to this equipment.

### **Minimum Performance Specifications:**

To be considered responsive a bid must clearly indicate compliance or noncompliance with each article below by inserting "Yes" or "No" under the "Comply" Column.

To demonstrate compliance, Bidders must also include and appropriately cross reference published technical information that confirms compliance with each mandatory criterion specified herein (unless stipulated as "not applicable for this item").

If published technical documentation does not exist for a specific requirement, then a written narrative explaining how the product offered meets the specification must be included with the Proposal. Failure to comply with any of the mandatory technical requirements will disqualify the bid from further consideration.

To ensure compliance is clear, the bidder must utilize a numbering system that corresponds to the numbering system below. An example of an acceptable system would be to indicate the specification reference number on a Tab stuck to the appropriate page of the technical documentation. The appropriate article of the technical documentation that demonstrates compliance should then be highlighted or underlined.

<b>Item</b>	<b>Technical Requirement</b>	<b>Comply (Bidder shall indicate Yes or No)</b>	<b>Supporting Information (Bidder shall indicate cross-reference)</b>	<b>Comments (For use by Evaluation Team Only)</b>
	<b>Chassis:</b>			
1	The GVWR is to be a minimum of 27, 216 kg. (60,000 lbs);			
2	Wheelbase must be a minimum of 6096 mm. (240 in);			
3	Usable clear cab to axle (CA) must be a minimum of 3810 mm. (152 in);			
4	Reinforced frame, entire length			
5	9,070 kg (20,000 lbs) front axle with matching steel leaf suspension;			
6	Right side must be equipped with 2 extra leaf springs;			
7	Matching front shock absorbers;			
8	20,866 kg (46,000 lbs) tandem rear axle, no spin both axles,			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
	with a driver controlled traction differential;			
9	Rear suspension rated at a minimum of 20, 866 kg (46,000 lbs);			
10	Front axle must be equipped with visible cap oil seals;			
11	Power assisted steering must be capable of manual steering in the event of a power failure;			
12	Tilt fibreglass hood and fenders with fixed position grill;			
13	Heavy Duty rear mounted tow hooks;			
14	Spray suppressant mud flaps, mounted in front and behind rear wheels;			
15	Integral front frame extensions which protrude 15 in ahead of grill;			
16	Design of the chassis should allow for the installation of a front crankshaft driven Power Take Off (PTO);			
17	Full trailer connections must include air and electrical connections mounted at the end of the frame, including tractor protection valve and 7 pin electrical receptacle.  End of Frame pintle hitch must be suitable for pulling 40,000 lb trailer;			
18	Black plastic fenders over rear drive wheels;			
	<b>Rustproofing:</b>			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
19	Sheet metal areas of cab, firewall, doors (inside and out) and undercarriage must be treated with a rust preventative coating equal;			
	<b>Painting:</b>			
20	Cab must be painted yellow as per Canadian General Standards Board (CGSB) Specification 1-GP-12c, gloss yellow, 505-101 using polyurethane automotive Enamel, using the powder coating painting process;			
21	Frame rails must be powder coating painted black;			
	<b>Engine:</b>			
22	Liquid cooled, turbocharged diesel engine, certified for on/off highway and construction duties;			
23	Minimum horsepower of 400;			
24	Minimum peak torque, 2237 N.m (1650 lbs/ft) at 1200 RPM, Governed speed 2100 RPM;			
25	Dry type element air cleaner, mounted under hood, protected from rain and snow;			
26	Oil filter, full flow type with replaceable element;			
27	Minimum 1500 watt block heater with 175 watt oil pan heater on a common receptacle;			
28	Primary and secondary replacement element type fuel filters;			
29	Spin On fuel/water separator;			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
30	Standard high opening type thermostat for use with ethylene glycol;			
31	Ethylene glycol filtration system, anti-freeze for minus 40 degrees C;			
32	Vertical exhaust with curved spout and bright metal perforated heat shield;			
33	Ether injection cold weather starting system, with in-cab control device, protected against activation when engine is running;			
34	Viscous, maintenance free, temperature controlled cooling fan with fibreglass blade;			
35	C Brake compression brake, 3 position switch;			
	<b>Transmission and Final Drive:</b>			
36	Automatic shift, six speed transmission;			
37	Rear axle ratio 4.10;			
38	Transmission oil cooler;			
	<b>Brakes:</b>			
39	Must be a full air system in compliance with CMVSS 121;			
40	Positive, automatic moisture removing device;			
41	An auxiliary air tank to release spring activated safety brakes;			
42	Air dryer frame mounted;			
43	Automatic front axle limiting valve;			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
44	All lines, components and fittings to meet Standard American English (SAE) Standards;			
45	Minimum 15 CFM Compressor;			
46	Minimum 16. 5x6 S cam front brakes with automatic adjusters;			
47	Minimum 16. 5x7 S cam rear brakes with automatic adjusters;			
	<b>Wheels and Tires:</b>			
48	Steel belted, steel cord, radial tires;			
49	Front: 385/65R22.5, 16 ply, highway tread;			
50	Rear: 11.00 X 22.5 16 Ply;			
51	Hub Piloted Bud type wheels;			
52	Front rim super single type 12.25X22.5;			
53	Dual rear rims 8.25X22.5;			
54	Spare front rim and front tire;			
	<b>Fuel:</b>			
55	Step tank(s) having a capacity of MIN 450 L (Bare Aluminum);			
	<b>Instruments and Controls:</b>			
56	Ammeter;			
57	Electric engine hour meter;			
58	Coolant temperature gauge;			
59	Engine oil pressure gauge;			



Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
60	Low oil pressure/high coolant temperature audible warning device;			
61	Fuel level gauge;			
62	Tachometer;			
63	Speedometer/odometer in kilometers;			
64	Low air pressure warning device;			
65	Back up warning alarm;			
66	Exhaust manifold pyrometer;			
67	Rear axle oil temperature gauge;			
68	Transmission oil temperature gauge;			
	<b>Electrical System:</b>			
69	Switch, indicator and wiring for beacon light;			
70	Low cut in, alternator minimum 130 amps;			
71	Self cancelling turn signals with steering mounted control switch;			
72	LED Stop/turntail lights with separate back up lights;			
73	Heavy duty, 3000 Cold Cranking Amps (CCA) battery/batteries. 2775 CCA;			
74	Manual reset circuit breakers;			
	<b>Cab and Accessories:</b>			
75	Dual sun visors;			
76	Cab air conditioning, high output heater and defroster;			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
77	Adjustable tilt steering column;			
78	Cab interior light;			
79	Heated Windshield wipers, arctic type, variable, constant speed, fitted with a shear pin or equivalent feature;			
80	Power window, right hand side, with the controls within easy access of the operator;			
81	Drivers seat must be a three way adjustable, high back air suspension type with isolator, cloth trim;			
82	Standard passenger seat;			
83	Two exterior type extendible, anti-glare rear view mirrors. West Coast type, left and right side mounted, minimum 180 mm. X 250 mm. (7"x11"). Stainless steel, heated, with clearance lights. 101 mm. (4") diameter convex spot mirrors. Power adjustable from cab interior, driver side;			
84	Cab entry/egress handles, left and right sides;			
85	Air operated horn;			
	<b>Hydraulic System:</b>			
86	Supply and install all necessary hydraulic components: valving, controls, hoses, solenoids, fittings, reservoir filters, electrical lines, gauges, pumps, etc. to complete a modular hydraulic system. The hydraulic valving			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
	must be operated electrically from a console installed in the cab of the vehicle;			
87	The system will be used to operate all of the following hydraulic systems: double acting front mount one way plow, quick connect dump box sander/conveyor/spinner. The design of the circuit must be such that temperatures must not exceed 160 degrees F. during conditions deemed as normal operations and speeds;			
88	Hydraulic system must be load sensing piloted control type: - control box must have blast button for heavy spot spreading; - response time from 0 to full flow must be less than one (1) second; - minimum 38 GPM of flow;			
89	Hydraulic filter with built-in bypass must be installed: - filter eliminated at 10 microns; - filter condition gauge must be provided; - filter installed so that return flow to the reservoir passes through it			
90	All Hydraulic hoses must be equipped with standard JIC fittings Control valve in this specification must be 7 section control valve;			
91	The truck control console must be pedestal mounted in the truck cab between seats. System include supply and installation of all interfaces, relays and cabling to activate valves controlling the			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
	plow, and dump functions. These must be controlled by 3- 4 way on/off joysticks, two with a maintained position for hoist;			
92	Manual electronic sander control incorporating 10 position conveyor and spinner speed with ground speed sensor - switch and spinner reverse and pause controls with blast button; - low oil level light; - control console must also be equipped with an adjustable back lighted switch panel to control all truck and sander light functions including master switch; - valve and solenoids must be mounted in easily accessible location protected against elements and corrosive contaminants;			
93	Hydraulic reservoir must be swirl type of a capacity sufficient to properly cool system: - must be frame mounted behind cab; - constructed of not less than 14 Ga. Steel; - valves must be minimum 14 GPM; - equipped with 6" stand pipe c/w filter screen to prevent contamination while filling; - permit the intake of air through a 40 micron breather screen during any variance in oil level; - tank must be provided with easily readable oil level and temperature gauge; - gate valve must allow for downstream repairs without draining reservoir;			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
	- drain valve for changing reservoir oil;			
94	Solenoid operated stack type hydraulic valves incorporating an adjustable system relief valve and incorporating manual actuation handles to aid in diagnosing system failures;			
95	Dump cylinder single acting: - under body control valve, under body cylinder is double acting; - spreader function valve controls single conveyor and spinner; - double acting front plow function;			
96	Hydraulic installation completely tested before release to destination, system must operate multiple hydraulic controlled functions simultaneously with sander functions continuing without interruption;			
	<b>Mounted Equipment</b> <b>Supply and install the additional snow fighting equipment front mount one way plow.</b>  <b>Sander/Dump Body:</b>			
97	Heavy duty body serving as a spreader or dump, transformed by a hydraulic tilting floor. Approximate Dimensions: Outside width: 97 ½" Inside width: 88" Side height: 39" Tailgate height: 51" Cabshield: 24"			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
	Capacity: 13.3 cubic yards at water level Weight: 6,670 lbs			
98	Cabshield constructed from 10 gauge steel and reinforced at both ends;			
99	Front Panel constructed from 3/16" thick solid steel plate;			
100	Reinforcement consists of two full height and one full width 3/16" thick steel "V" shaped gussets welded to the outside of the front panel;			
101	Sides constructed from 3/16" steel, reinforced with two 10 gauge side posts per side;			
102	Tilt side must be single wall design serving as both outer and inner wall and moving with floor as one unit;			
103	Tailgate Constructed of 3/16" steel double acting design;			
104	Tailgate, when horizontal, must be level with the floor of the body;			
105	Tailgate must be air operated;			
106	Floor - Constructed of 3/16" thick 180,000 psi yield strength steel; - Reinforced by two 15/16" flats formed into a honeycomb structure between five 3" x 1 1/2" x 1/8" tubes traversing under the floor; - Floor Hinge must be bolt on;			
107	Understructure - Two full length 10" I-beams at 25.4 pds per foot;			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
	<ul style="list-style-type: none"> <li>- Three 1/4" flats welded between I-beams;</li> <li>- Three square tubes 3" x 3" x 3/16" traverse top of I-beams joined at the ends by 4" x 3" x 3/16" tube. A 3" x 1 1/2" x 1/8" tube and 1/4" flat stock is welded at the front of the I-beams. A 14" x 91" x 3/16" bumper is welded at the back of the I-beams;</li> <li>- Longitudinal Conveyor must be an integral part of the body floor and run longitudinally down the driver's side of the body, discharging in front of the rear wheels;</li> <li>- Conveyor frame is constructed of 3/16" thick 180,000 psi steel with removable conveyor wear plate;</li> <li>- Chain maintenance system including access panel in rear apron must allow for removal of chain and slotted doghouse must allow for removal of gearbox;</li> <li>- Chain and Driving Mechanism Self cleaning pintle type chain;</li> <li>- Chain links are protected by integral chain guard leaving only bar flights exposed;</li> <li>- Chain is driven by 25:1 ratio gearbox;</li> <li>- Front sprockets are ductile cast iron grade 60;</li> <li>- Driveshaft is 1 1/4" high resistant stress proof 100,000 psi material;</li> <li>- Rear sprockets are ductile cast iron grade 30;</li> <li>- Idler shaft is 1" diameter 90,000 psi steel;</li> <li>- Bearings are self aligning and greaseable;</li> </ul>			

Item	Technical Requirement	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-reference)	Comments (For use by Evaluation Team Only)
	- Tension of chain adjustable by use of two grease adjustable actuators;			
108	Spinner Assembly - Spinner shaft is sealed type with hydraulic motor on top; - 30 cubic inch bi-rotational, hydraulic motor; - Spinner assembly chassis mounted, laterally adjustable and removable; - Urethane spreading disc is 18" diameter; - Non adhesive polyethylene chute feeds the spreading disc;			
109	Hoist Cylinder -Two stage telescopic cylinder, with capacity of 30 tons at 2000 psi; - Tilt Floor Hydraulic Cylinders; - Two double acting cylinders, with combined capacity of 19 tons at 2000 psi; - Cylinder ends contain bushings with grooves and zerks for greasing; - Pins holding cylinders in place are made from 60,000 psi cold roll steel;			
110	Finish - All steel 180,000 psi material must be sandblasted; - All steel must be primed with an epoxy primer; - Safety leg to hold the body in raised position; - Safety leg to hold the floor in raised position;			
111	Installation			



<b>Item</b>	<b>Technical Requirement</b>	<b>Comply (Bidder shall indicate Yes or No)</b>	<b>Supporting Information (Bidder shall indicate cross-reference)</b>	<b>Comments (For use by Evaluation Team Only)</b>
	The equipment must be neatly mounted on the truck furnished by the Contractor. Installation must include all hoses, fittings and other appurtenance required to have a complete and ready unit. There must be plow lights top of plow frame, body lights, and mud flaps mounted with system. All steel must be sand blasted before primer and paint is applied.			

Make and Model of product being offered: \_\_\_\_\_

Bids which do not meet all of the Minimum Specifications listed above will be deemed non-compliant and given no further consideration.

If, upon delivery and acceptance, the product is found to not meet the Minimum Specifications, the product will be returned at the supplier's expense and the Contract will be terminated for default.

**ANNEX B****BASIS OF PAYMENT**

- The Firm Unit Price must be FOB Destination and include all delivery and off-loading charges to the Parks Canada , Prince Albert National Park, Waskesiu Lake, SK, S0J 2Y0.
- Firm Unit Price does not include GST, however GST will be added as a separate line item to any invoice issued as a result of a Contract.

Item	Description	Qty.	Firm Unit Price	Extended Price
1	Tandem Truck equipped with a hydraulic system and combination sander/dump box with front mounted one way plow in compliance with the Requirement and the Minimum Performance Specifications outlined in Annex "A"	1 lot	\$_____/lot	\$_____
<b>Total Assessed Bid Price:</b>				\$_____