



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada
#910, 410-22nd Street East
Saskatoon
Sask.
S7K 5T6
Bid Fax: (306) 975-5397

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

Title - Sujet Speed Plow	
Solicitation No. - N° de l'invitation 5P412-130713/A	Date 2014-04-08
Client Reference No. - N° de référence du client Parks Canada	
GETS Reference No. - N° de référence de SEAG PW-\$STN-201-4676	
File No. - N° de dossier STN-3-36057 (201)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-05-20	Time Zone Fuseau horaire Central Standard Time CST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Marsland, Rina	Buyer Id - Id de l'acheteur stn201
Telephone No. - N° de téléphone (306) 975-4359 ()	FAX No. - N° de FAX (306) 975-5397
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PARKS CANADA 100 MAIN ST P.O.BOX 100 WASKESIU Saskatchewan S0J2Y0 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

Public Works and Government Services Canada/Réception
des soumissions Travaux publics et Services
gouvernementaux Canada
#910, 410 - 22nd Street East
Saskatoon
Sask.
S7K 5T6

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

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Parks Canada

Solicitation is attached as PDF.

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Speed Plow for Parks Canada, Saskatchewan

PART 1 - GENERAL INFORMATION

1. Requirement

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

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

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).

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) (<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 (2014-03-01) 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.

2.1 Improvement of Requirement during Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least fifteen (15) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

3. Enquiries - Bid Solicitation

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

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

4. Applicable Laws

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

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	(one (1) hard copy)
Section II:	Financial Bid	(one (1) hard copy)
Section III:	Certifications	(one (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 Exchange Rate Fluctuation 2013-11-06

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

Mandatory Technical Criteria are attached as Annex A.

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.

Lowest evaluated price = Firm price of Item # 1 in Annex B.

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.

1. Certifications Required Precedent to Contract Award

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. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) 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.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Requirement

The Contractor must provide the items detailed under 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) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

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3.1 General Conditions

SACC Manual Clause 2010A (2014-03-01), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

While delivery is requested by October 31, 2014, the best delivery that could be offered is

_____.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Rina Marsland
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
910 – 410 22nd St E
Saskatoon, SK S7K 5T6

Telephone: 306-975-4359
Facsimile: 306-975-5379
E-mail address: rina.marsland@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 Technical Authority

The Technical Authority for the Contract is

- **To be determined**

The Technical Authority named above 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 Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

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5.3 Contractor's Representative

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 price for a cost of **\$ to be determined**. Customs duties are included and Applicable Taxes are extra.

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

6.2 Limitation of Price

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

6.3 Single Payment

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

7. Invoicing Instructions

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

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

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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 Saskatchewan.

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 (2014-03-01), 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

B7500C, (2006-06-16), Excess Goods

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.

1.0 Instructions

The following instructions and definitions apply to the interpretation of this Equipment Package requirement:

- (a) Where equipment certification to an SAE standard is required, the bidder ***must*** provide the certification upon request from the contracting authority;
- (b) The term "Technical Authority" is defined as the government officer responsible for ensuring that the contractor quality system, material and services supplied meet the contract requirement;

****The unit must meet or exceed the following mandatory general and technical criteria:**

1.1. Description of System

Heavy Duty Truck, 6x4, Diesel, minimum 66,000 lbs (29 937 kg) Gross Vehicle Weight Rating (GVWR);

The unit must be a brand new 2014 or 2015 truck equipped with a hydraulic system and combination sander/dump box with a front mounted two-way plow.

The unit must be delivered with all requested equipment installed, and ready for immediate use.

The 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.

1.2 Operating Conditions

Unit must be capable of operation in ambient temperatures ranging from 45 degrees C (113 degrees F) down to -40 degrees C (-40 degrees F).

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).

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1.4 Maintenance and Warranty

Upon delivery of the vehicle, the contractor must:

- Provide a shop service manual and service parts manual accurately identifying all the components of the equipment supplied.
- Provide an operators manual for the vehicle and all applicable attachments.
- Provide information indicating the details of the extent and duration of the warranty.
- Cover any and all costs to have warranty work (i.e. recalls) performed at a shop located in Prince Albert, Saskatchewan

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.

Unit must be delivered with a minimum of forty five (45) L of fuel.

Unit must be delivered to the maintenance compound, Waskesiu Lake, Prince Albert National Park, Saskatchewan.

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.

MANDATORY TECHNICAL CRITERIA

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. And provide the following:

- Appropriately cross referenced 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.
- To ensure compliance is clear, the bidder must utilize a numbering system that corresponds to the numbering system in the table below. The appropriate article of the technical documentation that demonstrates compliance should then be highlighted or underlined.

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
G.V.W & Dimensions:				
1	Vehicle type; - Conventional cab c/w fiberglass tilt hood and fenders			
1(a)	Must have fixed position grill			
2	Gross Vehicle Weight minimum 66,000 lbs (29 937 kg)			
3	Usable clear cab to axle (CA) must be a minimum of 3810 mm. (152 in);			
4	Wheel Base 6096 mm (240") Minimum			
5	Minimum 74" after frame			
6	Inside cab minimum 70" door to door			
Engine:				
7	In line 6 cylinder electronic c/w engine compression brakes			
7(a)	Must be liquid cooled, turbocharged diesel engine			
8	Net horse power @1700 RPM minimum 400 max 480			
9	Net torque min 1650 lb. ft @ 1200 RPM			
10	Dry type element air cleaner, mounted under hood, protected from rain and snow;			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
11	Oil filter, full flow type with replaceable element;			
12	Block heater			
13	Primary and secondary replacement element type fuel filters;- with water separator that has sight bowl and must be easily accessible			
14	Rear engine power take off (REPTO) drive with flange,			
15	Alternator Batteries; Minimum 135 Amp 35 SI Brushless 3 High Cycle, 2500CCA			
16	Battery Disconnect switch			
17	Radiator – Heavy Duty			
18	Cold weather starting aid with in cab control device.			
Transmission and Final Drive:				
19	Fully Automatic shift, six speed transmission, with touch pad control			
20	Additional speed sensor signal wire located in the cab for the sanding sensor			
21	Drive shaft must be calculated to torque			
22	Differential Capacity minimum 46,000 lbs			
23	46000 lbs tandem rear axle with 4 wheel differential lock which is driver controlled			
24	Breather – hose type			
25	Transmission oil – synthetic			
Front Axle:				
26	Axle configuration – set forward			
27	Rating – minimum 20 000 lbs/9072 kg with related suspension and brakes			
Front Suspension:				
28	Air suspension			
29	Minimum 10 leaf springs each on left and right side			
30	Ground rating: 10,000lbs/4536 kg at minimum each side			
31	Matching heavy duty Shock absorbers			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
Rear Suspension:				
32	Minimum 46,000lbs/20,865 kg air ride (approx. 54" spread)			
33	Ground rating: 23,000lbs/10,432 kg at minimum each side			
34	Matching heavy duty shock absorbers			
35	Stand alone dash mounted pressure gauge			
36	Dual leveling valves			
37	Air suspension with a dump valve			
Frame:				
38	Single rail (reinforced entire length) Steel bolted straight through			
39	Full depth integral front frame extension minimum 15" from the front of the grill, capable of carrying a 3,000 lb snow plow			
40	Section Modulus 20.50 inches cubed at minimum			
41	Resisting Bending Moment 2,460,000 in lbs			
42	Minimum 4 Cross members			
43	Frame Paint –standard for corrosive environment			
Steering:				
44	Type – Integral power			
45	Greaseable steering knuckles			
46	18" adjustable tilt steering wheel.			
Tires:				
47	Front tires 425/65R22.5 16 ply tubeless steel radials			
47(a)	Spare tire for front of vehicle			
48	Rear tires 11R22.5 16 ply tubeless steel radials			
Wheels:				
49	10 bolt hub piloted, non polished aluminum c/w isolators between rims			
50	Base width front 31.12 cm (12.25x22.5")			
51	Base width rear 20.96 cm (8.25x22.5")			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
Brakes:				
52	Non-asbestos Air-S cam c/w cover plates			
53	Trailer brake spike			
54	Full ABS system, with fully operational air system in compliance with CMVSS121 regulations.			
55	Air compressor- 453 L/m (15.5 cu. Ft) Liquid cooled to obtain air supply from engine air filter system.			
56	Air tanks facing outward, accessible for daily draining			
57	Air dryer- with heater, mounted inside frame rails.			
58	Front shoes – 16 ½ X6”			
59	Rear shoes – 16 ½” x 7”			
60	Parking Brake: four (4) spring activated air chambers			
61	Automatic Slack Adjusters			
62	Brakes on all axles			
63	Unit must meet CMVSS 121 regulations			
64	Diesel Particulate Filter, right side, under cab canister,			
64(a)	vertical exhaust pipe c/w heat shield and 18” chrome curved stack extension			
Miscellaneous				
65	Engine safety feature, must not be able to start engine unless transmission selector is in neutral.			
66	Tow hooks front and rear mounted			
67	Cooling system corrosion filter, as required by manufacturer			
68	Front bumper must be flat			
69	Black plastic fenders over rear drive wheels			
70	Trailer brake control system, required to end of frame c/w glad hands and covers.			
71	Fuel tank – Aluminum step tank (Min 450 L) Cannot extend beyond 22” from back of cab.			
71(a)	Two (2) steps must extend to back of tanks .			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
72	Stationary winter front/summer screen with stone guards attached			
73	Tracking Alignment, outside front tire track cannot exceed outside rear tire track			
74	Front fender extensions – as required to cover 425 tire width			
75	Vehicle must be painted DuPont #N5723HP (yellow), highway and fleet infrastructure color.			
75(a)	Top of hood must be painted flat black			
Cab and Accessories:				
76	Arm rests, door mounted (2)			
77	Floor Mat- Heavy duty rubber c/w underlay			
78	Suspended style brake and accelerator pedals			
79	Roof mounted air operated horn.			
80	Two (2) air suspension high back fabric covered seats, neutral in color to hide dirt, (i.e. not white), with air lumbar feature, outboard seat controls, but no armrests			
81	Exterior sun visor, steel or fibreglass			
82	Interior sun visors, one each on left and right side			
83	Dual aerodynamic heated mirrors: -180 mm x 250 mm (7"x11") with integral heated convex mirrors 101 mm (4").			
83(a)	Stainless steel, one each mounted on the left and right side.			
83(b)	Each mirror must have clearance lights, and be power adjustable from the driver's side of the cab			
84	Factory installed AM/FM push button radio, must include weather bands.			
85	Lights as required by CMVVSS 108			
86	Must have clearance lights			
87	Two internal and external grab handles required for 3 point stance when entering truck to eliminate using the door handle as a grab handle			
88	Cab Heater/Defroster- High output heater, with winter vent intake cover, complete with factory air conditioning.			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
89	Cab interior fully lined and insulated in cloth for increased insulation value and reduced noise level, grey in color			
90	Interior noise level – less than <80 dba measured at operator's ear level travelling at 100 km/hr.			
91	Power windows both sides			
92	Power door locks			
93	Back up warning alarm			
94	Interior cab light.			
Electrical System:				
95	Wiring and marked dash switch for snow plow lights; -Switch in up position and lit (plow lights on, truck headlights off)			
95(a)	Switch in down position (Truck headlights on, plow lights off)			
95(b)	Wiring harness must extend 1.5 m (5 ft) past front bumper area			
96	Auxiliary driving lights; On/off dash switch for auxiliary driving lights that light up when in on position.			
96(a)	Wiring harness must extend 1.5m (5ft) past the front bumper area.			
97	Bank of five (5) dash mounted auxiliary switches with wiring to 20 amp capacity relays per switch.			
97(a)	**Successful bidder must provide wiring schematic and location of relays at time of delivery.			
98	Electrical trailer connection. Electrical wiring harnesses 0.6 m (2 ft) longer that end of frame c/w 7 pin plug for trailer ABS			
Instruments and Controls:				
99	Two (2) dash mounted on/off air switches, plumbed to end of frame			
100	Ammeter or voltmeter			
101	Fuel level gauge			
102	Air pressure gauge(s) with low pressure alarm inside cab			
103	Oil pressure gauge			
104	Coolant temperature gauge			
105	Hour meter and Tachometer			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
Hydraulics:				
106	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.			
106(a)	The hydraulic valving must be operated electrically from a console installed in the cab of the vehicle.			
107	The system will be used to operate all of the following hydraulic systems:- - front mount two-way plow, - dump box - sander/conveyor/spinner The design of the circuit must be such that temperatures must not exceed 71 degrees C (160 degrees F) during conditions deemed as normal operations and speeds.			
108	Hydraulic system for sanding; -must be load sensing piloted control type			
108(a)	Must have a manual electronic sander control incorporating 10 position conveyor and spinner speed with ground speed sensor.			
108(b)	Must have switch and spinner reverse and pause controls, with blast button-response time from 0 to full flow to be less than one (1) second			
108(c)	Spreader must have a minimum 38 GPM of flow			
108(d)	Valve and solenoids must be mounted in easily accessible location protected against elements and corrosive contaminants			
109	Hydraulic filter must have: - built-in bypass installed			
109(a)	Filter eliminated at 10 microns			
109(b)	Have a filter condition gauge			
109(c)	Filter must be installed so that return flow to the reservoir passes through it			
110	Pedestal mounted truck control to be positioned between seats in cab.			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
110(a)	System to include supply and installation of: -all interfaces, relays and cabling to activate valves controlling the plow, and dump functions.			
110(b)	These must be controlled by three (3), four (4) way on/off joysticks, two (2) with a maintained position for hoist.			
110(c)	Control console must also be equipped with an adjustable back lighted switch			
110(d)	panel to control all truck and sander light functions including master switch			
111	Hydraulic reservoir: -must be swirl type of a capacity sufficient to properly cool the proposed system:			
111(a)	Must be frame mounted behind cab			
111(b)	Constructed of not less than 14 Ga. Steel;			
111(c)	Valves must be minimum 14 GPM;			
111(d)	Equipped with minimum 6" stand pipe c/w filter screen to prevent contamination while filling;			
111(e)	Permit the intake of air through a maximum 40 micron breather screen during any variance in oil level;			
111(f)	Tank must be provided with easily readable oil level and temperature gauge;			
112	Solenoid operated stack type hydraulic valves incorporating an adjustable system relief valve and incorporating manual actuation handles to aid in diagnosing system failures;			
113	Dump cylinder(single acting);			
114	Spreader function valve controls two conveyors and spinner			
115	Double acting front plow function;			
116	Hydraulic installation completely tested and operating correctly before release to destination,			
116(a)	System must operate multiple hydraulic controlled functions simultaneously with sander functions continuing without interruption;			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
Dump Body				
117	Heavy duty body serving as either a spreader or dump, as required Minimum Dimensions:			
117(a)	Inside width: 87"			
117(b)	Outside width: 96"			
117(c)	Inside length: 168"			
117(d)	Side height: 44"			
117(e)	Tailgate height: 50"			
117(f)	Cab shield: 24"			
117(g)	Capacity: 13.3 cubic yards at water level			
117(h)	Weight: 6,670 lbs			
118	Body shall be versatile with the ability to be used as a dump body or as a spreader to allow material to discharge through the front of the dump body onto a conveyor then onto a spinner assembly by way of an integral center conveyor assembly.			
119	The sides, front and tailgate shall be manufactured of minimum 3/16" steel.			
120	The unit must be 100% continuously welded throughout.			
121	The unit shall have a minimum 1/4" A569 steel replaceable floor with 3/16" removable chain guards.			
122	The sides shall be brake formed from minimum 3/16" steel to a radius of 43 inches.			
123	The boxed top rail shall be a minimum of 3/16 "formed channel.			
124	The front shall be sloped to accommodate a headlift cylinder with partial doghouse, conform with the radius of the body, and be 100% welded on the inside and outside.			
125	The rear of the body shall be supported by two pieces of 3/16" A569 steel plate contoured to the radius of the body and welded 100% on both sides.			
125(a)	Additional reinforcement must be provided by a 3/16" formed box section, placed at the rear of the spreader body and welded to two rear posts formed from 3/16" A569 steel.			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
	Together, they shall provide the required support at the rear of the body.			
126	The side supports shall have minimum 3/16" x 4" x 4" tube extending thru long members with a 3/16" boxed section welded 100% from top rail of the body to cross tube.			
127	The tailgate shall be: -air operated			
127(a)	a minimum of 6" higher than the sides of the body.			
127(b)	manufactured from minimum 3/16" steel.			
127(c)	double acting with a squared perimeter, having minimum two horizontal braces.			
127(d)	material door shall extend 16" into the interior of the body to prevent material from escaping through the partially opened door over the conveyor.			
127(e)	door opening shall be minimum 21" in width by 8-1/2" in height and shall be manufactured of 3/16" material.			
127(f)	tailgate shall be over center type, have 1" x 4" bar stock tailgate hardware with 1-1/4" hardened pins and be 1" flame cut, with each latch being adjustable with threaded 3/4" clevis and keeper pins.			
127(g)	Two adjustable chains provided to allow controlled spreading by the tailgate.			
128	Center conveyor must - discharge from front left onto spinner.			
128(a)	The body conveyor shall be minimum 36 3/4" in width and shall have minimum 28,000 pound tensile strength per strand pintle chain, with 1-1/2" x 1/2" bar flights on 4-1/2" centers.			
128(b)	Front discharge bodies, all sizes, shall be driven by two 6:1 spur gearboxes and high torque/low speed hydraulic motors.			
128(c)	There shall be 8 tooth sprockets keyed to the 2" drive and idler shafts.			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
128(d)	Conveyor drive shaft shall have heavy duty, dust sealed self-aligning four bolt flange bearings.			
128(e)	There shall be a heavy-duty idler assembly that will provide adjustment for proper conveyor chain tension by use of slide rail style adjusters.			
129	Spinner Assembly must: - be manufactured from minimum 3/16" A569 steel tubing and bar bracing			
129(a)	- be frame mounted to the chassis frame.			
129(b)	Have a two-position spring mounted handle.			
129(c)	Come equipped with a stationary front guard.			
130	Hoist Cylinder – -must be two stage telescopic cylinder, with capacity of 30 tons at 2000 psi;			
130(a)	Must have two double acting cylinders, with combined capacity of 19 tons at 2000 psi;			
130(b)	Cylinder ends must contain bushings with grooves and zerks for greasing;			
130(c)	Pins holding cylinders in place must be made from 60,000 psi cold roll steel;			
131	Finish - All steel must be 180,000 psi material, sand blasted and primed with an epoxy primer prior to painting;			
132	Safety leg to hold the body in raised position; for servicing			
132(a)	Safety leg to hold the dump box floor in raised position; for servicing			
133	Manufacturer shall provide caution labels, decals and any warnings deemed necessary.			
134	There must be installed: -plow lights on the top of plow frame,			
134(a)	-body lights			
134(b)	-mud flaps			
135	The snow plow coupling device: -must be a quick attach and detach design			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
135(a)	-must be able to pivot to accommodate uneven terrain			
135(b)	-must be able to be driven into evenly and to lock into place automatically			
136	Receiver Boxes: -hitch latch pins in the receiver boxes shall be a minimum of 1-1/2" diameter by 1018 hardened steel shafting.			
136(a)	-shall be fabricated from minimum 1/2" plate and welded to two (2) 3" x 4" x 1/2" vertical structural angles.			
136(b)	-the upper portion tilt assembly of the hitch must be a minimum 22".			
137	The hardened steel pins on the truck half must be a minimum of 1-1/2" in diameter.			
137(a)	-the truck portion of the hitch must be designed with no moving parts for connecting the plow to the truck and must have a tapered opening, to allow for up to 5-1/2" in horizontal misalignment.			
138	All vertical and horizontal structural angles that make up the lift frame shall be a minimum of 63,000 PSI tensile strength steel.			
138(a)	-the lift arm and lift frame shall be designed to accept a minimum 3" lift cylinder which shall be adjustable, and designed to support the weight of the plow.			
139	Painting – powder coated black in color			
140	Manufacturer shall provide caution labels, decals and any warnings deemed necessary.			
141	The snow plow push frame shall be designed with an automatic quick hitch type latching mechanism			
141(a)	-the design of the latch mechanism shall allow the plow to swivel freely so that it can follow the contour of the road allowing the plow to be parallel to the road surface at all times (raised, lowered or angled)			
142	-painting process by way of powder coating, black in color			

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
143	Manufacturer shall provide caution labels, decals and any warnings deemed necessary.			
143(a)	-all components described herein shall carry minimum one-year warranty. Manufacturer shall attach their standard warranty statement.			
Snow Plow				
144	Plow must be - full trip reversible C shaped moldboard			
144(a)	-12 feet in length and 41 inches in height.			
144 (b)	-made with minimum 10 gauge steel			
144 (c)	-moldboard to have minimum of 6 vertical support ribs.			
144 (d)	-a plate is to be welded to the ribs where the push frame attaches to the mouldboard to provide a surface for pins.			
144 (e)	-each trip arm utilizes a heavy duty compression spring			
144 (f)	-screw adjustable skid shoes, must include a set of replacement skid shoes.			
144 (g)	-plow to have a minimum 12" snow deflector on top of plow to prevent snow from blowing over the top of the plow back to the windshield.			
144 (h)	-the plow shall have a leveling device which allows the plow to be raised by one, center lifting lug. The plow must allow plow angle full left and full right while the plow is raised, and shall not require the lowering of the plow to level it after angling.			
144 (i)	-the hydraulic hoses are to be abrasion resistant, extremely flexible and work in a temperature range of -50 to 45 degrees C. (-58 to 113 degrees F)			
144 (j)	-all hardware and fasteners shall be electronically plated and corrosion resistant.			
144 (k)	-the powder paint used shall be orange moldboard with the push frame being coated black in color.			

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STN-3-36057

CCC No./N° CCC - FMS No./N° VME

Item	Mandatory Technical Requirement	Bidder Compliance		Supporting Information (Bidder shall indicate cross-reference)
		YES	NO	
144 (I)	-all welding performed on the plow must be in compliance with current AWS procedures and guidelines recognized within the State/Province of manufacture.			

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ANNEX B

BASIS OF PAYMENT

- The Firm Price must be must be all inclusive, FOB Destination including all delivery and off-loading charges, to Parks Canada at the maintenance compound, Waskesiu Lake, Prince Albert National Park, Saskatchewan.
- The Firm 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 Price
1	Tandem Truck equipped with a hydraulic system and combination sander/dump box with front mounted two way plow in compliance with the Requirement and the Mandatory Specifications outlined in Annex "A"	One (1) complete Unit as per Annex "A"	\$

Make and Model of product being offered: _____