



Request for Tender RFT PS 2018-06

SUPPLY & DELIVERY

**One (1) new 2018 or 2019 Model
Wheel Loader**

&

**One (1) new 2018 or 2019 Model
Snow Blower Attachment**

Issued: September 28, 2018

29 pages in total

Section 1 – Background Information

The Corporation of the Municipality of Greenstone (hereinafter “the Corporation”) is a rural Municipality of Greenstone was created in January 1, 2001, by the amalgamation of the former municipalities of the Town of Geraldton, the Town of Longlac, the Township of Nakina and the Township of Beardmore, and an extensive area of unincorporated territory (Caramat, Jellicoe, MacDiarmid and Orient Bay).

- Greenstone is located in the District of Thunder Bay and is 3,172 sq km (1224 sq mi) making it one of the largest incorporated municipalities in Canada.
- The Greenstone Region is home to several First Nation communities – Aroland, Ginoogaming, Long Lake 58, Bingwi Neyaashi Anishinaabek (Sand Point), Biinjitiwaabik Zaaging Anishinaabek (Rocky Bay), and Animbiigoo Zaagi’igan Anishinaabek (Lake Nipigon).

Section 2 - Intent of the Request for Tender

This Request for Tender (RFT **PS-2018-06**) (hereinafter “RFT”) is a call for the provision of one (1) new, 2018 or 2019 model, Wheel Loader and one (1) new, 2018 or 2019 snow blower attachment. The Wheel Loader and Snow Blower Attachment must be compatible.

The specifications as required by the Corporation are included as Appendix E-1 Wheel Loader and E-2 Snow Blower Attachment to RFT PS-2018-06.

All Proponents shall familiarize themselves with all aspects of the RFT.

Section 3 – General Conditions

This section forms an integral part of this RFT and must be considered in completing a response to this RFT.

- 3.1 The Proponent must agree to abide by all the clauses and conditions laid out in this RFT document.
- 3.2 The successful proponent shall supply a fully executed manufacturer’s warranty plus any options for extended warranties and a copy of the operator’s manual.
- 3.3 No oral explanation or interpretation shall modify any provisions of the Corporation’s RFT document.
- 3.4 All prices submitted shall be firm and shall include, without limitation, all required labour, materials, tools, supplies, equipment and other services as described herein and elsewhere in this document.

The quoted prices must be in Canadian dollars and clearly show the Harmonized Sales Tax (HST) as a separate item. The quoted prices shall remain in effect and irrevocable for a period of sixty (60) days from the closing date of this RFT.

All costs incurred by the Proponent in carrying out research, investigation or otherwise as may be necessary for the preparation of a response to this RFT, shall be borne by the Proponent.

3.5 **Municipal Freedom of Information and Protection of Privacy Act**

Any personal information collected by or on behalf of the Corporation under this RFT is subject to the *Municipal Freedom of Information and Protection of Privacy Act*. The information provided to the Corporation may be used to confirm certain information provided in the submissions for this project.

The person submitting this RFT shall consent to such collection and use of the information. The person submitting this RFT acknowledges the Tender is a public document and that the information contained in the Tender may become public and consents to the disclosure of that information. By responding to this RFT, respondents waive any challenge to the Corporation's decision in this regard. Any questions regarding the collection, use, or disclosure of the information should be directed to the Clerk.

3.6 **Accessibility for Ontarians with Disabilities Act, 2005 and Regulations**

Accessible Customer Service: All Tenders for the delivery of the Wheel Loader complete with accessories as described in RFT PS-2018-06, must comply with the Accessibility for Ontarians with Disabilities Act, 2005, and the Integrated Accessibility Standards, O. Reg. 191/11. In accordance with O. Reg. 191/11, every provider of goods and services that involve dealing with members of the public, or developing policies, procedures and practices for the provision of goods and services to the public, all consultants and sub consultants, shall be trained in understanding Accessible Customer Service.

3.7 **Procurement By-law**

This RFT is made in accordance with By-law 17-23 available on the municipal website:

<http://www.greenstone.ca/content/tendersrequests-proposalsurplus-property>

Section 4 – Tender Structure and Content Requirements

4.1 The Proponent Checklist provided as Appendix 'A' must be completed and included with your submission.

4.2 Tender bids shall be on the Price Submission Form provided herein as Appendix 'B' to RFT PS-2018-06.

4.3 Tender submissions shall be in a sealed envelope and labelled as follows:

Request for Tender PS-2018-06 Wheel Loader and Snow Blower Attachment

4.4 Tender submissions must be addressed as follows:

***Gabrielle Lecuyer, Clerk
Greenstone Administration Office
Municipality of Greenstone
P.O. Box 70, 1800 Main Street
Geraldton, Ontario P0T 1M0***

4.5 Proponents must complete and submit the Declaration Form, attached as Appendix 'C'.

4.6 Proponents must complete and submit the References Form, attached as Appendix 'D'.

4.7 Failure to include all the requirements as listed in this RFT may result in your proposal being disqualified.

4.8 Please include any other relevant items, not covered in the previous sections, which will identify why your firm should be selected by the Corporation.

4.9 Erasures, overwriting or strike-outs must be initialed by the person(s) signing the Tender Form.

Section 5 – Tender Process

5.1 Timeline

The following timeline has been established for the Tender selection process and delivery date:

Event	Date
Request for Tender Issued	September 28, 2018
Deadline for Proponents' Questions	October 12, 2018 at 4:00 pm
Deadline for Answering Questions	October 18, 2018 at 4:00 pm
Deadline for Close of Tender	October 26, 2018 at 3:00 pm
Target Date for Review of Tenders	November 2, 2018
Anticipate decision and selection	November 13, 2018
Date of Delivery	Prior to March 15, 2018

NOTE: Although every attempt will be made to meet all dates, the Corporation reserves the right to modify any or all dates at its sole discretion.

5.2 Date and Place for Receiving Tenders

(a) Tenders will be received by 3:00 p.m. EST on October 26, 2018
It is the sole responsibility of the proponent to ensure that the Tender has been received before the closing time and date.

Tenders received after 3:00 p.m. EST on October 26, 2018 will be returned unopened.

(b) Before being officially received, the tender envelope will be marked by the Corporation, with the time and the date that the envelope was received in the office.

5.3 Documentation

(a) One (1) original and two (2) copies of the tender are required.

(b) All tenders must be legible and written in ink or typewritten.

5.4 Communications

All requests for information and/or clarification as well as questions regarding the interpretation of the terms set out in this RFT should be referred to:

Terry Gervais

Director of Training, Consulting & Fleet

The Loomex Group

Email: gervais@loomex.ca

Phone: (Cell) 613-484-4120

5.5 Addendums

Proponents may be advised by addenda, of required additions, deletions or alterations in the requirements of this RFT document. All such changes shall form part of the RFT document and shall be allowed for in arriving at the total submission price.

Addenda will be posted on the Municipal website no later than October 18th, at 4:00 p.m. local time (Refer to Section 5.1 Timeline).

It is the bidder's responsibility to check the Municipality's Tender/RFP webpage at:

<http://www.greenstone.ca/content/tendersrequests-proposalsurplus-property>
for any Addenda or updates prior to submitting a bid.

Failure to acknowledge addenda will result in automatic rejection of the bid, unless in the opinion of the Director and in consultation with the CAO, the addendum (addenda) does not significantly impact the bid, in which case the Proponent will be provided 4 business days to formally acknowledge the addendum (addenda) with no change or amendment permitted to the financial Bid.

5.6 Withdrawal or Substitution of Submission

A Proponent may withdraw or substitute all or part of his/her Tender at any time up to the official closing time. The last Tender received shall supersede and invalidate all tenders previously submitted by that proponent for this RFT.

A Proponent may withdraw or qualify his/her Tender at any time up to the official closing time, by submitting a letter bearing the signature as in his/her Tender to *Gabrielle Lecuyer, Clerk*, Municipality of Greenstone, who will mark thereon the time and date of receipt.

After the official closing date and time, all submissions received shall be irrevocable.

5.7 Alterations or Variations

No alterations or variations of this document shall be valid or binding upon the Town unless authorized in writing in accordance with the procedure set out in Communications Section 5.4

Section 6 – Tender Evaluation

6.1 Evaluation Criteria

The submissions will be evaluated on the merits of the information provided in the Tender. The lowest bid not necessarily accepted.

6.2 Review Committee

The review committee will be comprised of the Corporations staff and the Airport Manager.

6.3 Public Opening

All submissions will be opened at the *Greenstone Administrative Office, P.O. Box 70, 1800 Main Street, Geraldton, Ontario P0T 1M0*, on October 26, 2018, at 3:00 p.m. local time. All submissions will be deemed to be public documents and subject to public information requests.

6.4 Acceptance and Contract

It is expected that one proponent will be selected to provide the vehicle, complete with accessories, as described herein. Upon selection, the successful proponent will be required to enter into a contract with the Corporation.

The contract will be based on the specifications in this RFT document and the successful proponent's tender and will include the requirement of proof of professional liability insurance. The terms and conditions of this RFT offer shall remain firm and open for acceptance until December 26th, 2018.

6.5 Incurring Costs

The Corporation shall not be responsible for any liabilities, costs, expenses, loss or damage incurred, sustained or suffered by any Proponent(s) prior or subsequent to or by reason of the acceptance or non-acceptance by the Corporation of any tender by reason of any delay in the acceptance of a tender.

6.6 Errors and Omissions

The Corporation shall not be held liable for any errors or omissions in any part of this RFT. While the Corporation has used considerable effort to ensure an accurate representation of information in this RFT, the information contained in this RFT is supplied solely as a guideline for Proponents. The information is not guaranteed or warranted to be accurate by the Corporation, nor is it necessarily comprehensive or exhaustive.

6.7 Cancellation

The Corporation reserves the right to:

- (i) cancel the RFT call and not accept any Tender and/or re-issue the RFT in its original or revised form;
- (ii) cancel the RFT call and not accept any Tender if the costs are deemed to be prohibitive or too high; or
- (iii) reject any Tender that fails to comply with the response requirements.

Appendix 'A' - Request for Tenders RFT PS-2018-06

Proponent Checklist

This checklist is provided for the convenience of the Proponent to ensure that all required documents have been completed and enclosed in the Submission envelope in this order.

Please check (√) the items required and return with your Submission.

- Completed Proponent Checklist (Appendix 'A')
- Signed and completed Price Submission Form (Appendix 'B')
- Signed and Witnessed Declaration (Appendix 'C')
- Completed and signed Reference Form (Appendix 'D')
- Acknowledge Vehicle & Accessories Specifications (Appendix 'E')

Future Requirements (Post Project Award)

- Workplace Safety and Insurance Board (WSIB) Clearance Certificate (required prior to execution of contract).
- Insurance Certificate (required prior to execution of contract).
- Contract execution.

Appendix 'B' - Request for Tenders RFT PS-2018-06
Price Submission Form (page 1 of 2)

I, the undersigned, having the authority to bind the company, have carefully read and examined the entire RFT PS-2018-06 and understand the requirements to be met under this contract. I have received all Addenda and have allowed for all associated costs in my Submission. For the prices set forth in this Submission, I hereby offer to provide the vehicle and Snow Blower Attachment listed herein, with the required accessories in full conformity with the specifications, for the prices provided in Canadian dollars and include delivery FOB the R. Elmer Ruddick Nakina Airport.

Wheel Loader Manufacturer's Make	
Wheel Loader Manufacturer's Model	
Model Year	
List Price for complete unit	
HST %	
Snow Blower Attachment Manufacturer's Make	
Snow Blower Attachment Manufacturer's Model	
HST%	
List Price of complete unit	
Total Delivered Price	
Total HST %	
Delivery Date (following award of contract)	

- Yes - All prices remain firm for a minimum of 60 days of Tender closing.
- Yes - Operating, Maintenance, Warranty, Parts Manuals included
- Number of Addenda received and acknowledged: _____

Appendix 'B' - Request for Tenders RFT PS-2018-06
Price Submission Form (page 2 of 2)

Tender Submitted By:

Company Name: _____

Company Address:

Tel: _____ Fax: _____

Email: _____

Name & Title of Person signing on behalf of Company:

Signature: _____

Date: _____

Appendix 'C' - Request for Tenders RFT PS-2018-06

Declaration

(To Be Signed and Submitted with Tender)

THIS TENDER IS SUBMITTED BY: _____

TO THE MUNICIPALITY OF GREENSTONE

1. I, _____ of _____

DECLARE that no person, firm or corporation other than the one whose signature or the signature of whose proper officers is or are attached below has any interest in this submission or in the contract proposed to be taken.

2. **I FURTHER DECLARE** that this Tender is made without any connection knowledge, comparison of figures or arrangement with any other company, firm or person making a Submission for the same project and is in all respects fair and without collusion or fraud.

3. **I FURTHER DECLARE** that no Employee or Elected Official of The Municipality of Greenstone, is or will become interested directly or indirectly as a contracting part or otherwise in the performance of the contract or in the supplies, work or business to which it relates or in any portion of the profits thereof, or in any such supplies to be used therein or in any of the monies to be derived therefrom.

4. **I FURTHER DECLARE** that the several matters stated in the said Submission are in all respects true.

5. **I FURTHER DECLARE** that I have carefully examined the RFT, including all Addenda and hereby acknowledge the same to be part and parcel of any contract to be let for the provision of the vehicle therein described or defined for the prices stated on the Price Submission Form.

6. **I FURTHER DECLARE** that I have a clear understanding of the requirements in accordance with the vehicle specifications involved in this contract.

7. **I FURTHER DECLARE** that this offer is to continue open to acceptance until the formal contract is executed by the successful Proponent for the said vehicle for a period ending December 23rd, 2018, whichever first occurs and that the Town may, at any time, within that period, without notice, accept this Submission whether any other Submission has been previously accepted.

8. **I FURTHER DECLARE** that the awarding of the contract based on this RFT by the Corporation shall be an acceptance of this Tender.

...cont.

9. **I FURTHER DECLARE** that in the event of default or failure on our part, that the Corporation shall be at liberty to advertise for new RFT, or to carry out the works in any other way they deem best, and I also agree to pay to the said Corporation the difference between this RFT and any greater sum which the Corporation may expend or incur by reason of such default or failure or by reason of such action as aforesaid, on their part, including the cost of any advertisement for a new RFT; and to indemnify and save harmless the Corporation and its officers from all loss, damage, cost charges and expenses, which they may suffer or be put to by reason of any such default or failure on our part.

Company Name

_____ / _____

Signature

Print Name

Date

Title

Company Address

Appendix 'D' - Request for Tender RFT PS-2018-06

References

Name of Proponent's Company: _____

Years of experience dealing with Wheel loaders and Accessories sales: _____

Please provide at minimum, three (3) references from municipalities or companies to which a vehicle of similar nature as outlined in this RFT has been provided within the last 5 years.

References will be contacted at the sole discretion of the Corporation. The Corporation reserves the right to investigate other than listed references.

Name of Client	Contact Name and Telephone Number	Vehicle/Accessories Provided

Note: The Proponent may provide additional information relevant to their experience and past projects.

These references have been submitted by:

Name

Signature

Title

Appendix 'E-1' – Request for Tender PS-2018-06

Wheel Loader

GENERAL SPECIFICATION

This specification lists only the major details of the unit therefore; it is the supplier's responsibility to deliver a new fully equipped and functional vehicle and accessories with compatible components to provide dependable efficient service.	
This unit shall be supplied with all standard equipment plus all other equipment required by this specification	YES: NO:
Specification definitions shall be to S.A.E. and ISO standards unless otherwise stated.	YES: NO:
The Loader shall be a manufacturer's standard model (specification sheet to be submitted with bid documents)	YES: NO:
The Wheel Loader must be compatible with Snow Blower attachment and must be constructed to integrate fully.	YES: NO:
A pre-delivery inspection must be completed by the vehicle manufactures dealer at the operating site. The dealer providing the PDI must provide upon request all post delivery services including normal maintenance work, warranty etc. The unit shall be delivered with a maximum of 10 hours and be ready to operate.	YES: NO:
The dealer is responsible for ensuring that the unit is thoroughly tested, inspected, and that all deviations are corrected prior to delivery. The Corporation has the right to inspect the unit at any stage of production and have all deviations corrected upon request. A final inspection shall be completed at time of delivery.	YES: NO:
Manufacturer's standard paint colour. Specify Colour	YES: NO: SPECIFY:
The unit width over the tires shall not be less than 100 inches for side stability when equipped with 20.5R25 L2 Snow Grip Radial Tires as a minimum.	YES: NO:
The unit wheel base shall be a minimum of 117 inches.	YES: NO:

Specify wheel base:	SPECIFY:
The height to the top of the cab shall be a maximum of 12 feet. Specify Height:	YES: NO: SPECIFY:
The unit shall have a minimum ground clearance of 14 inches. Specify Ground Clearance:	YES: NO: SPECIFY:
The basic operating weight shall be a minimum of 31,000 lbs. The weight shall include lubricants, coolant, full fuel tank, loader bucket with bolt on cutting edge, ROPS cab and 20.5rL2 Snow Grip Tires as a minimum. Specify Tire Size:	YES: NO: SPECIFY:
The unit shall be equipped with rear counter weights. Counter weight shall be of significant capacity handle a compatible loader mounted snow blower.	YES: NO:
Backup alarm to operate automatically when machine is operated in reverse.	YES: NO:
To be equipped with a 24volt electric system for starting and operating with a minimum 80-amp alternator and maintenance free batteries. Specify CCA Rating of batteries.	YES: NO:
24 Volt to 12 Volt – 10 Amp Converter to be supplied	YES: NO:
A 12-volt adapter shall be installed to allow for accessories in the cab.	YES: NO:
The Unit shall be equipped with 120volt plug-in for the engine and hydraulic system block heater(s) for winter operations.	YES: NO:
An electric master disconnect switch to be standard	YES: NO:
Fuel Filter and water separator - shall be supplied	YES: NO:
Minimum fuel tank of 45 gallons. Specify Tank Size:	YES: NO: SPECIFY:
Automatic Ride Control	YES: NO:
Groeneveld or equivalent automatic greasing system, onboard type. Reservoir and pump assemblies are to	YES: NO:

mounted in a convenient location to refill and be protected from the elements.		
Automatic Greasing System shall be connected to all lube points except for driveshafts and other similar rotating parts.	YES:	NO:
The unit shall be equipped with front and rear fenders.	YES:	NO:
Unit shall have a crankcase guard installed.	YES:	NO:
Operator's handbook, shop manual and spare parts list shall be supplied and delivered with the unit.	YES:	NO:
Warranty period shall be for a minimum of 12 months or 2,500 hours for all parts and labour. Specify Warranty Period	YES:	NO: SPECIFY:
The vendor shall specify the dealer responsible for performing any required warranty repairs and provide name and phone number of the person to be contacted should warranty repairs be required.	YES:	NO:
The vendor shall furnish a signed standard manufacturer's warranty, a copy of which shall be included with the tender documents.	YES:	NO:
Please provide information on additional/extended warranty available.	YES:	NO:
Vendor to provide one day of vehicle orientation for all operators.	YES:	NO:

CAB/OPERATOR WORKSTATION SPECIFICATION

An integral ROPS and sound suppressed enclosed weather-proof deluxe steel cab with side openings for easy access to the driver's seat shall be provided.	YES:	NO:
Sound suppression with maximum ISO 6396 sound rating of 71 dba.	YES:	NO:
A certified roll over protective structure shall be incorporated into the cab.	YES:	NO:
All windows shall be tinted safety glass.	YES:	NO:

The cab shall have continuous and unobstructed glass from roof line to floor for forward visibility in tight quarters.	YES:	NO:
Side windows shall fully open and secure.	YES:	NO:
Large interior convex rear-view mirror shall be supplied.	YES:	NO:
Large, Heated Exterior Mirrors shall be supplied.	YES:	NO:
Grab bars – unit shall have 3-point contact at all times at the front and rear of the loader and around the roof line.	YES:	NO:
Sun Visor shall be included.	YES:	NO:
Cab shall have cup holder, personal cooler holder, storage of operator's manual.	YES:	NO:
Cab shall have an interior dome light.	YES:	NO:
Unit shall be equipped with a horn.	YES:	NO:
Unit shall be equipped with automatic ride control that can be operated in the on, off or automatic mode.	YES:	NO:
Unit shall be equipped with a multi-level warning system which shall signal machine and component malfunctions.	YES:	NO:
Cab shall have a solid-state sealed switch module for convenient access to light, wiper, beacon, A/C, auto shift and other electrical functions.	YES:	NO:
Parking brake shall have indicator light and audible warning when engaged	YES:	NO:
Full shock resistant power steering	YES:	NO:
Steering wheel and transmission controls shall be adjusted as a single unit (tilt steering)	YES:	NO:
Directional changes shall be actuated by a single lever mounted at the steering column.	YES:	NO:
Unit shall have floor mounted pedals.	YES:	NO:
Unit shall have rubber floor mats.	YES:	NO:
Engine coolant temperature gauge	YES:	NO:
Transmission oil temperature gauge	YES:	NO:
Hydraulic Oil temperature gauge	YES:	NO:
Engine Oil pressure gauge	YES:	NO:

Speedometer	YES:	NO:
Tachometer	YES:	NO:
Odometer	YES:	NO:
Hour meter	YES:	NO:
Unit shall have a single lever joystick control for the implements.	YES:	NO:
Loader shall have a forward/neutral/reverse switch standard on the loader control joystick.	YES:	NO:
Quick shift button on loader joystick with two selectable modes.	YES:	NO:
Unit shall have an auxiliary hydraulic lever with quick connect for multi-way hydraulic plow attachment.	YES:	NO:
Seat shall be a deluxe cloth, fully adjustable, air suspension type with lumbar support and adjustable arm rests.	YES:	NO:
Minimum 2" retractable seat belt shall be supplied.	YES:	NO:
Heater - a cab heater, pressurizer ensuring operator's comfort at various outside temperatures	YES:	NO:
Factory installed Air Conditioning.	YES:	NO:
Cab intake air shall be filtered.	YES:	NO:
Cab interior re-circulation air shall be filtered.	YES:	NO:
Unit shall have front and rear electronic intermittent wipers + washers.	YES:	NO:
Unit shall be equipped with directional signal lights.	YES:	NO:
Cab shall have four front and two rear working lights, and two rear stop and tail lights.	YES:	NO:
Unit shall have a roof mounted Whelen RB6PAPS Rotating Beacon or equivalent. The light flashing frequency shall be between 60 and 90 per minute.	YES:	NO:
Vehicle shall be equipped with an AM/FM Weatherband radio.	YES:	NO:
Vehicle shall be equipped with one mobile radio that is programmed to the following frequencies. 122.80 MHZ 126.70 MHZ	YES:	NO:

Radios shall be installed in the Corporation's approved location.	YES:	NO:
Radio shall have external speakers installed.	YES:	NO:
Radios shall have a channel busy light.	YES:	NO:
Radios input voltage shall be DC, negative ground.	YES:	NO:
Radios shall be supplied, installed with approved mounting hardware and attached to installed high-gain antennas.	YES:	NO:

Engine Specification

Engine shall be a six-cylinder, four stroke, turbocharged diesel with air to air after-cooled and shall have a net power of a minimum 180hp. Specify Engine:	YES:	NO:
	SPECIFY:	
All engine air filters shall be removable without the use of tools.	YES:	NO:
Engine shall be supplied with extended life coolant/antifreeze with a minimum protection of -40 degrees F and must meet or exceed engine manufacturers specifications.	YES:	NO:
Unit shall be provided with a reverse flow cooling system which draws air in from the back of the unit and exhaust's out the sides and top of the engine enclosure.	YES:	NO:
Equipped with an engine coolant heater powered by 110-volt external electric power source.	YES:	NO:
500-hour engine oil change intervals.	YES:	NO:

TRANSMISSION/POWERTRAIN SPECIFICATIONS.

Unit shall have an automatic transmission of the counter shaft power shift design with torque converter drive or be of the hydrostatic design. Specify transmission model:	YES:	NO:
	Specify:	
Transmission shall have an auto-shift mode.	YES:	NO:
At a minimum the transmission shall provide for four forward speeds and three reverse speeds.	YES:	NO:

Transmission shall offer manual shifting for first, second, third and fourth gears.	YES:	NO:
Transmission shall have the ability for the operator to select the highest gear to which the transmission will automatically shift.	YES:	NO:
The unit is to be capable of achieving a fourth gear speed of 23mph (37 kph) as a minimum. Specify Speed:	YES:	NO: SPECIFY:
Transmission shall have an auto-shift mode.	YES:	NO:
Forward/Reverse shall be controlled electronically.	YES:	NO:
Transmission shall have a neutral mode.	YES:	NO:
Transmission shall have a guard to be supplied on the unit.	YES:	NO:
The unit shall have a total rear oscillating angle of 24 degrees minimum.	YES:	NO:
The final drives of the unit shall be of a planetary design.	YES:	NO:
Traction control for front and rear axles to be provided with a front axle locking differential.	YES:	NO:
Front axle equipped with limited slip.	YES:	NO:

BRAKE SPECIFICATION

Brakes shall meet current regulations for MSHA and OSHA including primary, secondary and parking brake requirements.	YES:	NO:
Unit shall have hydraulic wet disc type brakes.	YES:	NO:
Unit shall have independent systems for the front and rear that provides effective braking in the event of a partial system malfunction.	YES:	NO:
Brakes shall be Oiled Cooled.	YES:	NO:
Brakes shall be protected from water, mud and dust.	YES:	NO:

HYDRAULIC SYSTEM SPECIFICATION

The hydraulic system shall be fully filtered and completely sealed.	YES:	NO:
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The pump(s) are to be of sufficient size and design that optimizes available unit HP.	YES:	NO:
Craig QKMC55 Hi-Visibility hydraulic quick coupler. Vendor to verify and confirm compatibility with all attachments.	YES:	NO:
Pilot operated controls for the lift, tilt and auxiliary hydraulics with detents.	YES:	NO:
Load sensing steering using only the power required, providing smooth steering movement and operating safety.	YES:	NO:
Minimum hydraulic relief valve setting of 2,990psi (20615kpa). Specify setting:	YES:	NO: SPECIFY:
Steering hydraulic system shall be independent of the implement hydraulics.	YES:	NO:
The unit shall have an automatic bucket positioner and lift kick-out that is adjustable.	YES:	NO:
Hydraulic pressure taps shall be provided for checking pressure in the hydraulic implement and steering positions.	YES:	NO:
Unit shall have 1000-hour hydraulic oil service interval.	YES:	NO:
Hydraulic system shall be compatible with common type of hydraulic fluids.	YES:	NO:
Minimum hydraulic tank capacity of 20 gallons that must be sufficient size to supply hydraulic pumps and all circuits. Specify tank capacity:	YES:	NO: SPECIFY:
Loader Lift arms shall be constructed of one solid plate to provide good strength and visibility.	YES:	NO:
Single action lifting cylinder.	YES:	NO:
Cylinder shall have chrome plated rod.	YES:	NO:

ADDITIONAL EQUIPMENT

Shall be equipped with a quick connect bucket with a minimum capacity of 3.5 cubic yards. Specify Size:	YES:	NO: SPECIFY:
Standard 60" pallet forks complete with attachment for quick connect system.	YES:	NO:
One set of blank hooks for the quick disconnect.	YES:	NO:

6-yard snow bucket complete with attachment for quick connect system.	YES:	NO:
15-foot Snow Pusher Blade complete with attachment for quick connect system.	YES:	NO:

Appendix 'E-2' – Request for Tender PS-2018-06

Snow Blower Attachment

GENERAL SPECIFICATIONS

The unit(s) supplied under this specification shall be new and be the manufacturer's latest model standard commercial product and shall have demonstrated industry acceptance by having been manufactured, and sold in significant numbers to the commercial trade and shall have been proven in service for the application specified, for at least 3 years prior to the tender.		
The snow-blower supplied under this specification must be capable of blowing a minimum of 2800 tons per hour of snow at 150-foot cast	YES:	NO:
The unit supplied is to be complete with all accessories customarily furnished and installed on this type unit, whether specified herein or not, to enable the snow blower to function reliably and efficiently under all conditions of services	YES:	NO:
Must be a two-stage snow-blower with a ribbon type auger, a turbine or impeller second stage and a directional remote chute.	YES:	NO:
Impeller casing 140 degrees' rotation (minimum) with flat cast to the right.	YES:	NO:
Directional chute with a minimum diameter of 406 mm (16 inches) and consists of one (1) vertical section and one (1) flexible end cap section 139 inches (3531 mm in height).	YES:	NO:

Must have one (1) single steering vane RH side hydraulically activated from inside the cab 98 inches in height (minimum).	YES:	NO:
Cutting width 2794 mm (110 in) minimum.	YES:	NO:
Must have a full width scraper blade. Total wear surface of skids must be 1935 cm ² (300 in 2) minimum with carbide insert 580 cm ² (90 in 2) minimum.	YES:	NO:
The unit supplied must be capable of operating without failure or adjustment when loaded to its maximum operating capacity for a period of 12 hours.	YES:	NO:
The configuration of the snow-blower must be made in order to maximize visibility of the operator. Operator must be able to see in front of the snow-blower for a distance of at least 5 m (16.4 ft.) and the engine cowling must be at a 15-degree angle relative to the ground.	YES:	NO:
All standards and specifications referenced refer to the latest editions unless otherwise indicated.	YES:	NO:
A pre-delivery inspection service (PDI) must be completed by a vehicle manufacturer dealer at the operating site. The dealer providing the pre-delivery service including normal maintenance warranty, etc. The unit shall be delivered with a maximum of 10 hours and be delivered ready to operate.	YES:	NO:
The vendor for ensuring that the unit is thoroughly tested, inspected and that all deviations are corrected prior to delivery. The purchaser has the right to inspect the unit at any stage of the production and have all deviations corrected upon request. The consignee shall complete a final inspection at time of delivery.	YES:	NO:

The vendor will provide two copies in English of the maintenance manuals for the snow-blower attachment. Provide two detailed copies of the operator's manual. A list of parts normally associated with the routine maintenance of the unit must be provided at time of delivery. All manuals may be provided in paper and electronic format.	YES:	NO:
Training of Airport Staff must be included. Up to 8 hours of training may be required.	YES:	NO:
Provide warranty on all attached components and repair labour from the date the unit is initiated into service, state the warranty term. Provide warranty on all OEM equipment as per the manufactures normal warranty periods, provide details. Specify Warranty	YES: Specify:	NO:

Engine Specifications

The engine shall be diesel developing a minimum of 365 horsepower, and shall be equipped with the latest diesel electronic control engine and engine management system.	YES:	NO:
Provide a full flow fuel filter – water separator incorporating replaceable elements.	YES:	NO:
The oil filter is to be a full flow type, incorporating a replaceable element,	YES:	NO:
The radiator is to be located on the left-hand side and severe duty type. Coolant protection to -40 degrees Celsius to be provided.	YES:	NO:
All radiator hoses are to be silicone type, with silicone type hose clamps.	YES:	NO:
Engine has electronic control conformity with Tier 3 anti-pollution regulations.	YES:	NO:

The fast-idle speed can be controlled within the full range from inside the cab.	YES:	NO:
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Electrical Specifications

The electrical system is to be a 12-volt system. Must have 4 LED lights – 2 on chute and two on the front of the machine controlled from the inside the loader.	YES:	NO:
The batteries shall generate a minimum of 1850 cold cranking amperage (CCA).	YES:	NO:
The alternator shall have a minimum capacity of 90 amps with a built-in regulator.	YES:	NO:
Provide two multipurpose type work lights, one to be mounted inside the engine cowling and the second to be located to aluminate conveyor safety flange. Both with individual waterproof on/off switches.	YES:	NO:
The unit must be complete with circuit breakers. The circuit breakers must be located in a common, easily accessible location.	YES:	NO:
All switches and controls shall be clearly marked in English or ISO icons.	YES:	NO:
The entire electrical system must be protected from the elements. All wiring connections must be either soldered or approved waterproof connectors.	YES:	NO:
All wiring is to be protected and installed inside of the loom. The loom shall be securely fastened to the snow blower frame.	YES:	NO:
All wiring must be color-coded or have permanent identification markings at each termination point.	YES:	NO:
For the engine, provide a warning light to indicate all of the following conditions: high coolant temperature, low coolant level, and low engine oil pressure. Must be equipped with a low oil pressure and high coolant temperature shutdown system.	YES:	NO:

Provide an engine hour meter.	YES:	NO:
Provide an engine block heater minimum size of 1000 watts, complete with cord and plug-in.	YES:	NO:
All exterior 120-volt heater plugs shall be weather proof receptacles, located at one point on the exterior of the blower. At the receptacle provide permanent identification noting what connector serves.	YES:	NO:
All instruments, gauges and controls must be clearly marked in English. All labels must be permanently affixed etched metal plates or engraved two color plastic plates or protected decals.	YES:	NO:

Hydraulic System Specifications

The hydraulic system is to include adequate oil capacity, filtration with replaceable filters, pressure control devices and relief devices and other equipment necessary to ensure the satisfactory and safe operation of the snow-blower.	YES:	NO:
Provide a minimum 10-micron full flow replaceable hydraulic oil filter.	YES:	NO:
Hydraulic oil to be Dextron II or approved.	YES:	NO:
All hydraulic hoses to remain flexible to minus 40 degrees Celsius.	YES:	NO:
The hydraulic pump must be direct drive from the engine.	YES:	NO:
All hydraulic hoses must be secured to the blower. The hoses must be protected from damage due to vibration and chaffing.	YES:	NO:

Snow Blower Specifications

The blower head shall be a two-stage unit.	YES:	NO:
The first stage shall consist of a ribbon type to push the snow towards the center.	YES:	NO:

Shall consist of a fan impeller to cast the snow.	YES:	NO:
It shall have a minimum capacity of 2800 tons per hour with a casting distance of 150 feet.	YES:	NO:
The snow-blower shall have a minimum of 110-inch width of cut.	YES:	NO:
The snow-blower must not exceed 12,000 pounds.	YES:	NO:
The reduction gearbox shall be heavy duty type and shall be certified by the manufacturer.	YES:	NO:
The front gear box shall be an oil-bath type and capable of disassembly.	YES:	NO:
The gear box must be mounted allowing easy removal,	YES:	NO:
A shear flange device on the gearbox input shaft shall protect the blower drive.	YES:	NO:
The gearbox bearings must be heavy duty rated for the maximum torque and thrust that can be imposed.	YES:	NO:
The gearbox bearings must be continuously lubricated.	YES:	NO:
The snow-blower shall have two stages, first stage ribbon type and second stage a fan type for casting snow.	YES:	NO:
The auger drive system must be complete with a shear bolt assembly to prevent damage in the event of a shock load. The shear assembly must be easily accessible.	YES:	NO:
All drive shaft components from the impeller gearbox to the conveyor drive must be a minimum Spicer 1710 series or equivalent.	YES:	NO:
The impeller must be a minimum of 40 inches in diameter.	YES:	NO:
The impeller blades must be replaceable and be attached with countersunk fasteners.	YES:	NO:

The impeller casing shall be capable of casting snow through a minimum arc of 135 degrees from horizontal on the right side to 45 degrees on the left. The impeller casing shall be constructed of abrasion resistant steel having a hardness of 500 brinell and the thickness three eighths inch minimum.	YES:	NO:
The blower frame assembly is to be of heavy-duty construction suitable for continuous application in hard packed snow conditions.	YES:	NO:
The unit is to be complete with a full length, bolt-on scraper blade.	YES:	NO:
Provide bank-cutting knives being a minimum of 15 inches in height above the top of the blower head.	YES:	NO:
The blower head must be complete with replaceable abrasion resistant skid shoes to support the blower head to protect the scraper blade and blower housing from excessive wear. Specify which is used and quantity used.	YES:	NO:
The snow-blower must include a loading chute.	YES:	NO:

Miscellaneous:

Provide a minimum in-cab controls for the following: Throttle control, blower chute rotation, blower chute open and close controls, impeller casing rotation, clutch and steering vein controls.	YES:	NO:
All drive shafts must be a minimum Spicer 1710 or equivalent.	YES:	NO:
The exhaust system is to be designed such that there can be no ingress of rain or snow into the exhaust system. Must be cowl muffler (residential type).	YES:	NO:
One toolbox complete with wrenches, hammer and punch for changing shear bolts and 10 shear bolts of each model shall be supplied.	YES:	NO:

<p>To be equipped with bracket for quick coupler to loader. This will be based on the loader manufacturers specifications upon brand with all quick attachments and controls installed.</p>	<p>YES: NO:</p>
<p>The entire snow blower is to be painted with Epoxy, Polyurethane or Imron type paint or equivalent. Specify Color:</p>	<p>YES: NO: Specify:</p>
<p>Provide permanently installed ISO or English instructions, diagrams and warning plates where required to ensure efficient operation and servicing with maximum safety.</p>	<p>YES: NO:</p>