



MUNICIPALITY OF  
**GREENSTONE**

## REQUEST FOR TENDER PS-2020-14

### **SUPPLY & DELIVERY ONE (1) NEW SWEEPER**

Date of Posting	WEDNESDAY, NOVEMBER 18, 2020
Deadline for Questions	TUESDAY, DECEMBER 1, 2020 @ 1:00 pm
Post Answers	WEDNESDAY, DECEMBER 2, 2020 @ 1:00 pm
Submission Deadline	TUESDAY, DECEMBER 8, 2020 @ 3:00 pm

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

(Total Pages: 28)

# INSTRUCTIONS TO BIDDERS

## 1. INTRODUCTION TO GREENSTONE

The Municipality of Greenstone was created on 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 km<sup>2</sup> (1224 sq mi) making it one of the largest incorporated municipalities in Canada.
- The Greenstone Region is the 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).

## 2. GENERAL DESCRIPTION

The Municipality of Greenstone (the Municipality) is inviting tenders for the purchase of **One (1) New Sweeper**. This purchase is being made possible through a financial contribution from the Government of Canada under the Airports Capital Assistance Program (ACAP).

## 3. DATE AND PLACE FOR RECEIVING TENDER SUBMISSIONS

Tenders are to be submitted in duplicate in a sealed envelope marked “**TENDER PS-2020-14 SUPPLY & DELIVERY of ONE (1) NEW SWEEPER**” by 3:00 pm local time, Tuesday, December 8, 2020 to:

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

**Tenders received after 3:00 pm, local time, TUESDAY, DECEMBER 8, 2020 will be returned unopened.**

Tenders will be opened publicly by the Clerk at 3:05 pm on Tuesday, December 8, 2020 at the Administration Office, unless the Clerk or designate acting reasonably postpones the start to some later hour. The opening shall continue once started, until the last bid is opened.

The Corporation of the Municipality of Greenstone will not be responsible for any submission which is lost or misplaced as a result of failure to address or seal the envelope as instructed.

#### 4. TENDER FORM REQUIREMENTS

Bids must be submitted on the attached "Tender Form."

Bidders are required to complete all blank spaces in the Tender.

The price quoted on the Tender Form is a **FIRM PRICE**.

All unit prices must be clearly indicated and all extensions and lump sum prices written in legible figures.

Where applicable the price **IS TO INCLUDE** all duty, special taxes, customs, clearances, cartage, freight and all other charges now or hereafter imposed or in force.

HARMONIZED SALES TAX (HST) to be EXTRA (if applicable) and clearly indicated on the Tender Form.

The bid must not be restricted by a statement added to the submission or by a covering letter, or by alterations to the Tender Form, as supplied by the Municipality of Greenstone unless otherwise provided herein.

The Tender Form must be signed in the space provided on the Tender Form, with the signature of the bidder and/or responsible official of the firm. If a joint tender form is submitted, it must be signed and addressed on behalf of each of the bidders.

By submitting this Tender, Bidders acknowledge that the Municipality has the right to reject any or all Tenders, and has no claim against the Municipality if the Municipality elects to reject any or all Tenders including the Bidder who submits the low Total Tender Price. The Municipality of Greenstone has the right to contract that service which in its opinion most closely represents its best interest.

## 5. CLARIFICATION

It will be the bidder's responsibility to clarify any details in question before submitting a bid. Any inquiries must be in writing and addressed to:

Brian Aaltonen, Director of Public Services  
Email: [brian.aaltonen@greenstone.ca](mailto:brian.aaltonen@greenstone.ca)

**Deadline for queries is 1:00 pm, Tuesday, December 1, 2020.**

An addendum will be issued up to the deadline stated on the cover page of this tender package for items that require clarification or if an error is identified. All Addenda shall become an integral part of the Tender Documents and allowed for by the Bidder in its Tender and Tender pricing.

It is the bidder's responsibility to check the Municipality's Tender/RFP webpage at <http://www.greenstone.ca/content/bid-opportunities-rfq-tenders-rfp> for any Addenda or updates prior to submitting a bid.

While the Municipality will endeavor to provide notification of the issuance of an addendum to prospective Bidders who have been invited to bid on the Tender Call, the Municipality assumes no liability for the notification and it is the responsibility of each Bidder to monitor the Municipality's Tender/RFP web page and determine whether any addenda have been issued by the Municipality.

**Any and all Addenda must be acknowledged in the bidder's pricing.**

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

## 6. CONFIDENTIALITY, WITHDRAWAL OF PROPOSAL, DISQUALIFICATION OF BIDDERS, ERRORS AND CORRECTIONS, ACCEPTANCE OR REJECTION OF PROPOSAL

Refer to the Procurement By-law (By-law 17-23), posted on the municipal website at <http://www.greenstone.ca/content/bid-opportunities-rfq-tenders-rfp>  
Alternatively, contact the Municipal Clerk (Tel: 807-854-1100 ext. 2059).

# TERMS AND CONDITIONS

## 1. CONTRACT ANNOUNCEMENT

Tenders are officially awarded in accordance with established policies. No announcement concerning the awarding of any Tender will be made until official approval is granted.

Notice to the successful bidder will be provided in written form to the address of the Supplier/Contractor indicated on the Tender Form.

## 2. EVALUATION & AWARD

The award of this Tender is subject to the availability of finances and the review and approval by the CAO and the Corporation's Council (as applicable). Any of these parties may elect not to approve the award of this Tender for any reason.

Provided that at least one of the Tenders received meets the Tender submission requirements an evaluation of the accepted bids may be completed by using the following criteria, which are not in any particular order, as well as any other criteria outlined in the Tender specifications.

- The availability of funds to complete the task
- The required expertise, including professional qualifications and experience of the Contractor and all sub-contractors specified
- A demonstration of a thorough knowledge and understanding of the scope of work
- A demonstration of specific related experience relative to the nature of the Tender Call
- Record of past performance with the Corporation
- Past performance with other municipalities preferably in the Ontario marketplace, providing similar services
- Record of past performance with provincial and federal regulatory agencies
- Ability and experience to perform in accordance with the Terms of the Call for Tender

### 3. CONTRACT

Each submission will be received with the understanding that a Purchase Order which states acceptance of the offer to furnish all or any part of the commodities described therein shall constitute a contract between the bidder and the Municipality. This contract shall bind the bidder on their part to furnish and deliver the commodities at the prices given and in accordance with the conditions and specifications of said accepted offer, these Terms and Conditions as provided with the tender documents, and the Terms and Conditions of the Municipality on its part to take delivery of and pay for the commodities at the contract price.

NO alterations or variations of the terms of the contract shall be valid or binding upon the Municipality unless authorized in writing by the Municipality.

It is mutually agreed and understood that the contractor shall not assign, transfer, convey, sublet or otherwise dispose of his contract or his right, title or interest therein, or his power to execute such contract, to any other person, firm, company or corporation without the previous written consent of the Municipality.

The contract may be cancelled by the Municipality upon non-performance of contract terms within fourteen (14) days from the date of notification of the same unless otherwise stated in the tender documents, or if service or product is deemed unsatisfactory or the supplier becomes insolvent or is adjudicated as bankrupt.

### 4. INSURANCE

#### A] LIABILITY INSURANCE

The successful bidder shall obtain and maintain Comprehensive General Liability Insurance against Bodily Injury and Property Damage claims.

1. Such insurance shall include coverage for:
  - i. Completed Operations,
  - ii. Non-Owned Automobile Liability,
  - iii. Occurrence Property Damage.
2. Shall contain a clause stating that such insurance shall remain in force and not be amended, cancelled or allowed to lapse without thirty (30) days prior written notice being given to each of the named insured.
3. Be subject to an inclusive limit of not less than \$2,000,000.00.

## **B] AUTOMOBILE INSURANCE**

The successful bidder shall insure and maintain against liability for Bodily Injury and Property Damage caused by automobiles owned or leased by the successful bidder.

Such insurance shall be subject to an inclusive limit of not less than \$2,000,000.00.

## **C] INSURANCE CERTIFICATE**

1. Prior to the issuance of a purchase order and the commencement of any work under this contract, the successful bidder must have filed with the Municipality of Greenstone, a CERTIFICATE OF INSURANCE, evidencing full compliance with the clauses pertaining to INSURANCE.
2. The Certificate of Insurance MUST be signed by AN INSURANCE AGENT.
3. The Certificate of Insurance MUST list The Corporation of the Municipality of Greenstone as an Additional Insured.
4. Any updated Certificate of Insurance MUST be forwarded to the Municipality.
5. \$2,000,000.00 Certificate of Insurance SHALL BE REQUIRED from the successful bidder.

## **5. WORKERS' COMPENSATION**

### **a) CONTRACTORS (WITH EMPLOYEES)**

- i) Upon notice of contract award, the successful bidder shall provide to the Municipality of Greenstone a copy of a valid CERTIFICATE OF CLEARANCE, from the Workplace Safety Insurance Board (WSIB).
- ii) No form of contract will be authorized without confirmation of good standing from WSIB.

### **b) CONTRACTORS (WITHOUT EMPLOYEES – INDEPENDENT OPERATORS)**

*(An "independent operator" is a person who carries on an industry set out in Schedule 1 or Schedule 2 of the Act and who does not employ any workers for that purpose.)*

- i) Upon the receipt of a successful bid the Independent Operator shall obtain a Determining Worker / Independent Operator Status form from the

Municipality of Greenstone to apply for an INDEPENDENT OPERATOR LETTER from the Workplace Safety Insurance Board (WSIB).

- ii) The Municipality will not issue a purchase order to any contractor until CONFIRMATION from the WSIB is received.

If further information on WSIB is required, the bidder is advised to contact the WSIB directly.

## **6. OCCUPATIONAL HEALTH & SAFETY**

All work shall be performed in compliance with the Occupational Health and Safety Act and Regulations (including WHMIS regulations), Highway Traffic Act and Regulations, and all other applicable federal, provincial and municipal legislation.

All shipments must comply with WHMIS Classification, Labeling and MSDS Requirements, all in strict accordance with the WHMIS Legislation or shipments will be refused by the Municipality of Greenstone.

## **7. FORCE MAJUEURE**

It is understood and agreed that the Contractor shall not be held liable for any losses resulting if the fulfillment of the terms of the contract shall be delayed or prevented by wars, acts of public enemies, strikes, fires, floods, acts of God, or for any other cause not within the control of the contractor and which by the exercise of reasonable diligence, the contractor is unable to prevent. Should the performance of any contract be delayed or prevented herein set forth, the contractor agrees to give immediate written notice and explanation of the cause and probable duration of any such delay and to provide written notice as to when Contract obligations resume. In any case, such delay shall not exceed the length of time of the interruption/disruption.

## **8. RESPONSIBILITY FOR DAMAGE**

The Contractor shall repair, replace or restore to its original condition any material, surface or item damaged by their operation.

## **9. CONTRACTOR'S LIABILITY**

The Contractor shall be responsible for all damages caused by them or their employees, agents or any works or persons employed by them, or under control, or arising from the prosecution of the work, or by reason of the existence or location or condition of work or any materials, plant or machinery used thereon, or therein, or which may happen by reason of their failure or the failure of those for whom they are

responsible, to do or perform any or all of the several acts or things required to be done by them under the contract, and agrees to hold the owner safe and harmless from any such claims by third parties, including any legal costs incurred by the owner in connection therewith on a solicitor/client basis.

## **10. INDEMNITY**

The Contractor shall indemnify and save harmless the Corporation of the Municipality of Greenstone from and against all liens, damages, losses, claims, demand payments, suits, actions, recoveries and judgments of every nature and description brought against him and/or the Municipality by reason of any act or omission of the said contractor, his agents, or employees in the execution of, or as a result of the work or in the guarding of it. All permits and fees applicable shall be acquired and paid for by the Contractor.

## **11. CONTRACTORS' PERSONNEL**

- (a) The Contractor shall employ sufficiently experienced and competent trained employees to adequately perform all the specified duties and services.
- (b) Contractor's employees shall only be allowed on or in the premises for the performance of contract services.

## **12. ACCESS TO WORKSITE**

The Contractor shall provide seventy-two (72) hours advance notice to the assigned municipal representative prior to delivery.

## **13. TERMS OF PAYMENT**

Unless progress payments or any alternative payment terms are specified in the contract, the contract price may be invoiced after delivery and installation and shall be payable thirty (30) days from receipt of an approved invoice. The Municipality shall have the right to withhold from any sum otherwise payable to the Company such amount as may be sufficient to remedy any defect or deficiency in the work, pending correction of the same.

All taxes must be SHOWN SEPARATELY on invoicing i.e. Harmonized Sales Tax (HST).

## **14. CONTRACTOR'S UNDERSTANDING**

It is understood and agreed that the Contractor has by careful examination, satisfied himself as to the nature and location of the work, the quality of materials to be encountered, the character of equipment and facilities needed in the completion of the work.

## **15. FREEDOM OF INFORMATION**

All information obtained by the Municipality in connection with this bid is the property of the Municipality of Greenstone and must be treated as confidential. It may not be used for any purpose other than for replying to this bid, and for fulfillment of any subsequent contract. Any Company who requires that the information in its bid be kept confidential must explicitly advise the Municipality of that fact.

The Company may declare confidentiality of their bid; however, the Municipality is required by law to adhere to the requirements of the Municipal Freedom of Information and Protection of Privacy Act, as amended.

Question about the collection, use or disclosure of personal information shall be directed to the Municipal Clerk (Tel: 807-854-1100 ext. 2059).

## **16. ACCESSIBILITY**

The Municipality of Greenstone is committed to the accessibility principles of preventing and removing barriers in accessing goods and services for people with disabilities and is bound by the Standards under the Accessibility for Ontarians with Disabilities Act, 2005 as may be amended from time to time.

Regulations enacted under the Act apply to every designated public sector organization and other third parties that provide goods and services to the members of the public.

The consultant/contractor, and all sub-contractors hired by the consultant/contractor in the completion of its work, will meet or exceed compliance with all applicable regulations under the Accessibility for Ontarians with Disabilities Act, 2005 as may be amended from time to time.

It is the consultant/contractor's responsibility to ensure they are fully aware of and meet all requirements under the Act.

# SPECIFICATIONS

## 1. SCOPE AND PURPOSE

The Municipality of Greenstone seeks to procure the necessary equipment and delivery services to upgrade the service capability of the existing heavy equipment in use at the R. Elmer Ruddick Nakina Airport.

## 2. TERMS OF CONTRACT

This contract is for the supply and delivery of the specified product.

To comply with ACAP funding requirements, the successful bidder shall supply and deliver the required equipment by March 31, 2021 (or earlier). The delivery deadline is non-negotiable.

## 3. DETAILS OF THE ITEM(S) AND/OR SERVICE(S) REQUIRED

### **New Sweeper Specifications**

Variations from specifications which are of a minor nature and do not affect the intent of the specification will be accepted; however, the existence and nature of such variation should be detailed in your tender. Acceptance shall be subject to the inspection and approval of the Municipality of Greenstone. The unit is to be a new model year (2020 or 2021). All warranty work being performed shall be **F.O.B** at no additional cost to the Municipality of Greenstone.

The price should include freight and any pre-delivery service work required, and should be for the equipment, delivered in Nakina in fully operational condition. Tender should include estimated delivery lead-time. The successful bidder may be asked to demonstrate the model before a final decision is made.

### **Evaluations will consider the following:**

- Warranty
- Suitability
- Life cycle operating costs
- Availability
- Parts availability and service
- Specification compliance
- Purchase price

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
<b>1.0 ACCEPTABLE MAKE and MODELS</b>			
1.1 Specify the make and model of the unit being tendered.			
<b>2.0 SCOPE</b>			
2.1 The unit supplied under this specification shall be the manufacturer's latest model standard commercial product and shall have demonstrated industry acceptance by having been manufactured and sold in significant number to the commercial trade and shall have been proven in service for the application specified, for at least 3 years prior to the request for proposal.			
2.2 The unit supplied under this specification shall be a fifth wheel hitch towed runway sweeper, heavy duty, capable of operating at a minimum 40 km/h.			
2.3 The unit shall be equipped with a minimum 36 inch (.9144m) diameter - 14 ft (4.8 m) wide horizontal rotating broom, a minimum 275 hp engine, and an air blower of minimum 20,000 cu. ft/min output.			
2.4 The unit supplied is to be complete with all accessories customarily furnished and installed on this type of unit, whether specified herein or not, to enable the sweeper to function reliably and efficiently under all conditions of service.			
2.5 This unit must be a proven product and already be in use in at least 5 Canadian airports for a minimum of 3 years.			
2.6 All warranty work must be performed <b>F.O.B.</b> R. Elmer Ruddick Nakina Airport at no additional cost to the Municipality of Greenstone.			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
2.7 Delivery is <b>F.O.B.</b> R. Elmer Ruddick Nakina Airport.			
<b>3.0 OPERATING CONDITION</b>			
3.1 This unit must be new and ready for operation when delivered to destination.			
3.2 No failure of components shall occur when being continuously operated for a 24-hour period, at a speed of 40 km/h at the maximum specified HP, with a broom pattern setting of 8 to 10 cm (3 to 4 in.)			
3.3 The sweeper must not experience any broom bounce or wheel shimmy when removing snow, slush or remains at 40 km/h, with a broom pattern setting of 8 to 10 cm (3 to 4 in)			
<b>4.0 REGULATIONS AND STANDARDS</b>			
4.1 All standards and specifications referenced herein refer to the latest editions.			
<b>5.0 DELIVERY</b>			
5.1 A pre-delivery service must be completed by the manufacturer prior to delivery.			
5.2 The unit is to be lubricated and serviced with all associated products suitable for the climatic conditions in the area where the unit will operate.			
5.3 All necessary documentation shall be provided to the consignee when the unit is delivered.			
5.4 The prime contractor is responsible to ensure that the towed runway sweeper has been thoroughly tested and inspected, and that all deviations from the specification, are corrected prior to delivery.			
5.5 A final inspection shall be completed by the consignee at time of delivery.			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
<b>6.0 MANUALS</b>			
6.1 The unit shall be delivered with an English version of each of the operator and maintenance manuals. The maintenance manual must indicate the proper maintenance procedures for all component installations. The manuals must include assembly drawings of all components.			
6.2 The unit shall be delivered with an English version of the parts manual. All parts manuals must list each of the individual components manufacturer's part number along with the manufacturer's address and contact phone number.			
6.3 The unit shall be delivered with an English version of the maintenance and parts manuals of the respective manufacturer (OEM), for each of the major components installed in the sweeper.			
6.4 Provide a minimum of 8 hours training at the delivery site and is to be held at time of delivery. The training is to consist of but not limited to the safe operation and maintenance procedures.			
6.5 If available, provide a minimum 20 minute training video, in English, showing the proper operations and preventive maintenance procedures.			
6.6 Manuals – Provide one copy of the shop/service repair manual.			
<b>7.0 WARRANTY</b>			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
7.1 An unconditional warranty on all major components (engine, axles, gear boxes, differentials, air blower, clutch assemblies (except normal wear), broom drive system, and repair labor for a minimum of 2,000 hours or 12 months, from the date the sweeper is initiated into service must be provided.			
7.2 If requested warranty repairs have not commenced within a 48 hour period following notification, R. Elmer Ruddick Nakina Airport/Municipality of Greenstone reserves the right to complete repairs and bill the supplier for the repair parts and labour in accordance with their standard repair time and rate.			
7.3 Specify the dealer responsible for performing any required warranty repairs, and provide the name and phone number of the person to be contacted should warranty repairs be required.			
<b>8.0 SWEEPER</b>			
8.1 The unit must be a pintle hitch towed type runway sweeper.			
8.2 The broom assembly must be driven by a closed loop hydrostatic drive.			
8.3 All bushings, pivot points, and any moving parts subject to wear shall be sealed against ingress of dirt and moisture and be fitted with a means of lubrication.			
8.4 The sweeper must be towed in line with the Kubota model 7060 tractor.			
8.5 The unit must be designed to operate in ambient conditions from minus 40 degrees to plus 40 degrees Celsius.			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
8.6 The unit must be capable of operating on concrete and asphalt surfaces at full rated capacities.			
8.7 The maximum allowable sweeper weight is 21,000 lbs (9,525 kg)			
8.8 Excepting broom pattern adjustment, the sweeper must be capable of completing a turn in a 20 m (65 ft) diameter clearance circle.			
8.9 The unit must be capable of operating a minimum of 24 hours without adjustment and lubrication.			
<b>9.0 PERFORMANCE</b>			
9.1 The broom must have a minimum width of 14 ft (4.87 m).			
9.2 The sweeping angle must be a minimum of 35 degrees right to 35 degrees left of the transverse position.			
9.3 The sweeper must be capable of removing a minimum of 80% of the slush and snow left by a plow, up to 13 mm (1/2 inch) for snow density of 128 to 240 kg/cu m (8 to 15 lb/cu ft) and when traveling at 40 km/h, at an 8 to 10 cm (3 to 4 in) pattern.			
9.4 The sweeper must be capable of sweeping light deposits of dry sand, dust, water and other debris from runway surfaces at full sweeping speed of 40 km/h, at a 8 to 10 cm (3 to 4 in) pattern.			
<b>10.0 DIMENSIONS</b>			
10.1 The maximum overall length from hitch to rear of the sweeper, to be 12m (40 ft).			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
10.2 The maximum overall width with all components installed to be 4.9 m (14 ft).			
10.3 With a new broom installed there must be a minimum of 10 cm (4 in.) ground clearance with the broom in the raised (traveling) position.			
10.4 The maximum overall height of all components to be 3 m (10 ft)			
<b>11.0 FRAME</b>			
11.1 The sweeper shall be designed with a heavy duty welded frame.			
11.2 The frame must be constructed from structural steel.			
11.3 The cross section modulus (CSM) must be sufficient to prevent frame distortion.			
<b>12.0 ENGINE</b>			
12.1 The engine must be a liquid cooled diesel in current production, and in use in current North American Airport Runway Sweepers.			
12.2 The engine must have a minimum of 275 HP (211 KW) continuous rating. Manufacturer's published literature or performance tests must be supplied indicating the HP and torque noted, including performance curve diagram of engine.			
12.3 The minimum continuous engine torque rating to be 850 lb/ft.			
12.4 The maximum engine speed must be no more than 2,200 RPM.			
12.5 Provide a two stage, heavy-duty air filter with engine air pre-cleaner.			
12.6 Provide a coolant filter with replaceable element.			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
12.7 Provide a heated engine fuel filter/water separator, complete with a glass bowl, and a replaceable element.			
12.8 Provide a thermostatically controlled fan clutch for the cooling system if not "Air to Air".			
12.9 Provide silicon hoses with the appropriate spring type clamps.			
12.10 Provide a severe duty radiator.			
12.11 Provide a minimum 110V, 1,250 watt electric coolant heater. The heater is to be complete with a conveniently located exterior plug and a minimum 4.6 m (15 ft) removable cord.			
12.12 Provide a vertical exhaust complete with a muffler installed horizontally on the engine enclosure, and an elbow rain cap.			
12.13 The engine must be equipped with automatic shut down for all of the following conditions: low engine oil pressure, engine coolant high temperature and low level and low hydraulic oil level.			
<b>13.0 FUEL TANK</b>			
13.1 Provide a minimum 300 litre capacity fuel tank.			
13.2 The filler must be exterior, on the rear of the sweeper, with access from the back and inclined as such, to permit filling from behind the wheels.			
13.3 The inscription DIESEL FUEL ONLY must be marked in minimum 50 mm (2 in) letters near the filler.			
<b>14.0 TOW HITCH</b>			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
14.1 The sweeper must be equipped with a pintle hitch to fit Nakina Airport's chassis.			
<b>15.0 COWLING</b>			
15.1 Provide a durable enclosure, which protects the major components from the elements.			
15.2 The enclosure must have doors on a minimum of two sides. The doors must be large enough to allow for maintenance and servicing of all components with ease.			
15.3 The top of the cowling must either fold open or be easily removed to allow the engine to be easily removed from the sweeper.			
15.4 Provide a positive latching mechanism to secure the doors in the closed position.			
15.5 Provide an easy positive mechanical means of holding the doors (and roof if folding type) open.			
15.6 Provide a light (s) to illuminate the enclosure to allow work to be performed at night.			
<b>16.0 POWER TAKE OFF</b>			
16.1 The unit is to be driven by relief valve and pump management protected closed loop hydrostatic drive via a direct drive (gear driven, not belt) pump.			
<b>17.0 ELECTRICAL SYSTEM</b>			
17.1 The unit must be equipped with a 12 volt electrical and starting system.			
17.2 Provide a minimum of three batteries with total 3,000 CCA.			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
17.3 Provide a "DELCO" type 25 or 30 SI alternator or equivalent having a minimum of 85 amp output.			
17.4 Provide a one amber SAE Class 1 LED warning light. No deviation will be accepted. The light is to be mounted as high as possible on the rear engine enclosure.			
17.5 Provide a minimum of four spotlights capable of illuminating the broom.			
17.6 Provide rear stop and three-way LED lamps. Tail lamps shall be conventional positions lamps. All shall be waterproof and shockproof.			
17.7 All wiring is to be installed inside of loom. All looms are to be protected from damage and to be complete with sufficient frame connectors.			
17.8 The wiring must be colour coded or marked a minimum of 6 inches with a permanent identification. Circuit identification markers must be attached to each end of the wire.			
17.9 The engine is to be complete with a 12 volt starter.			
17.10 All circuits must be protected with either fuses or manual reset circuit breakers which are to be located in a common area at the control panel.			
<b>18.0 PAINTING</b>			
18.1 Factory Installed Dietzen polyester urethane paint or the unit's manufacturers colour.			
<b>19.0 BROOM DRIVE</b>			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
19.1 The broom must be directly hydraulically driven via a closed loop hydrostatic system from both ends (dual drive) of the broom core. Belt, chain or gear final broom drives are not acceptable.			
19.2 The broom speed must be variable speed with a minimum of 0-500 RPM.			
<b>20.0 BROOM FRAME</b>			
20.1 The broom frame must be supported on two or more caster wheels. The caster wheels must swivel 360 degrees.			
20.2 The caster wheels must be complete with a mechanical brake to prevent wheel shimmy up to 50 km/h.			
20.3 The broom must be complete with a cover, consisting of a fixed plate over the top of the broom. This cover must be designed to minimize the accumulation of snow anywhere in or on the sweeper.			
20.4 The broom frame must be designed to withstand the weight of the broom with a full set of steel wafers and a full snow load on the cover.			
20.5 The broom frame must be adjustable from 35 degrees right to 35 degrees left.			
20.6 The broom stops shall be sufficiently designed to withstand the full dynamic loading of the broom hydraulic angling cylinders.			
<b>21.0 AXLES</b>			
21.1 The axle to be tandem axle, heavy duty type rated for a minimum of 110 percent of the maximum axle weight. <b>The rear axle bearings must be lubricated in an oil bath.</b>			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
21.2 The sweeper must be complete with a minimum of two wheels with brakes.			
<b>22.0 BROOM</b>			
22.1 The sweeper is to be complete with a minimum 4.8 m (14 ft) wide horizontal rotating broom.			
22.2 The broom core is to be balanced			
22.3 The broom core is to be 273 mm (10.75 in.) diameter. No deviations will be accepted.			
22.4 Provide a complete set of steel broom wafers and spacers at 1 to 1 spacing.			
22.5 The broom shall be complete with bearings and supports at both ends. The bearings must be easily replaceable. The bearings must be complete with easily accessible grease points.			
22.6 The broom must have a minimum of 10 cm (4 in) ground clearance with new broom wafers installed.			
22.7 The broom must be complete with a mechanical positive locking pattern adjuster.			
22.8 The broom pattern adjuster must be located in a safe convenient location for the operator.			
22.9 The pattern adjuster must be capable of setting any broom pattern from 25 mm (1 in) to 100 mm (4 in) at any stage of broom wear.			
<b>23.0 WHEELS AND TIRES</b>			
23.1 The tires and wheels weight rating must be a minimum of the axle rating.			
23.2 All chassis tires must be tubeless radial ply type construction, winter tires.			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
23.3 The tires must be available from one of the major tire manufacturers and must be available at any of the manufacturer's outlets in Canada.			
23.4 The maximum tire load shall be 500 lbs per inch of tread width.			
23.5 During the normal operation of the sweeper there shall be no side load on the caster tires.			
23.6 The caster wheels shall be designed to eliminate any wheel shimmy while allowing enough free movement to always run parallel to the sweeper axis.			
23.4 The caster wheels shall be designed to be easily removed and replaced.			
<b>24.0 INSTRUCTION IDENTIFICATION</b>			
24.1 Provide permanently installed ISO written instructions, diagrams and warning plates where required to ensure efficient operation and servicing with maximum safety.			
<b>25.0 AIR BLOWER</b>			
25.1 Provide an air blower to clean the residue left from the broom assembly. <b>The blower shall be protected by an air deflector at the blower entrance.</b>			
25.2 The air blower is to have a minimum output capacity of 20,000 SCFM at the blower outlet.			
25.3 The air blower assembly shall be directly mounted. The fan shall be driven by a variable speed, hydrostatic motor.			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
25.4 The air blower nozzles must automatically rotate allowing the working nozzle to be in line with the leading edge of the broom (2 air blower nozzles, 1 on each side).			
25.5 The air outlet velocity of each nozzle must be a minimum of 300 MPH.			
25.6 The nozzles must be capable of being lowered to a minimum of 10cm (4 in) off the runway surface.			
25.7 The nozzles must raise automatically to a minimum of 25 cm (10 in) from the ground level when the broom is raised to transport position.			
25.8 The nozzles must also be equipped with a means of hydraulically rotating it independent from broom swing to allow the sweeper to be used to clean the runway lights.			
<b>26.0 INSTRUMENT PANEL</b>			
26.1 Provide a lockable weatherproof instrument panel located on one side of the engine cowling.			
26.2 The minimum gauges to be supplied are: voltmeter, oil pressure, coolant temperature, hour meter, and fuel gauge.			
26.3 The instrument panel doors must open towards the sweeper front for safety purpose.			
26.4 All gauges are to be dust, moisture, and shock proof. All gauges are to include lights for night operation.			
26.5 The minimum switches to be supplied are: engine stop and start, engine speed control, and flood light switch.			
26.6 The control panel is to include lights for night operation.			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
26.7 A warning light indicating the automatic engine shutdown system has engaged, must be provided.			
<b>27.0 HYDRAULIC SYSTEM</b>			
27.1 Provide a hydraulic pump which must be gear driven.			
27.2 Provide a nominal 150 litre hydraulic tank			
27.3 The hydraulic tank must be complete with a breather cap and a site level gauge.			
27.4 A hand pump must be installed to allow the broom to be raised in the event of a hydraulic pump failure.			
27.5 The hydraulic system is to include adequate filtration (with replaceable filters), pressure control and relief devices, and other equipment necessary to ensure the satisfactory and safe operation of all hydraulic components.			
27.6 The hydraulic fluid is to be provided in consideration of very cold weather.			
27.7 Hydraulics shall control the angling and the elevation of the broom and the air nozzle assemblies.			
27.8 All electro hydraulic valves, controls, and components shall be heavy duty industrial type sealed against the ingress of water, dirt, moisture, etc., and shall be suitable for the application.			
27.9 All hydraulic lines shall be secured to the frame and shall be installed to prevent chafing and damage during sweeper use.			
<b>28.0 REMOTE CONTROL</b>			

Specifications	CONFORM		Specify the actual components supplied and their rated capacities for the unit tendered. Note in detail any deviations from the specified items.
	YES	NO	
28.1 Provide a remote box to allow the sweeper to be operated from the cab of the truck.			
28.2 Provide installation of remote control and install all wiring and connections required to operate all functions of sweeper from driver's seat of tow vehicle.			
28.3 The minimum gauges and controls to be supplied are tachometer, engine speed control, engine emergency stop, and angle and elevation controls for the broom and air nozzle(s).			
28.4 The wiring (cable) for the remote box is to be complete with at least two sets of pin type connectors. One is to be located at the control box. The second connector in the cable is to be located so that there is 1.5 m (5 ft) of slack at the fifth wheel hitch.			
28.5 The cable is to be at least 9.15 m (30 feet) long, weather proof, ultraviolet resistant and is to be designed for the purpose intended.			
28.6 Provide a weather resistant box for storage of the control box when not in use. The box shall be mounted on the front of the sweeper just rear of the hitch.			

**TENDER FORM**  
**TENDER PS-2020-14**

**SUPPLY & DELIVERY of ONE (1) NEW SWEEPER**

I/We, the undersigned, do hereby tender and offer to enter into contract with The Corporation of the Municipality of Greenstone for the SUPPLY & DELIVERY of ONE (1) NEW SWEEPER in accordance with the attached Terms and Conditions and all the specifications and terms of the Corporation's tender which are set forth below and attached at the prices indicated in the space provided for that purpose.

The award will be based on the base unit price, exclusive of any optional price provisions.

The undersigned hereby agrees to furnish the equipment listed in accordance with the specifications attached hereto.

Mfg. Year \_\_\_\_\_ Mfg. Make \_\_\_\_\_

Mfg. Model \_\_\_\_\_ Mfg. Stock Code \_\_\_\_\_

**Net purchase price:**        \$ \_\_\_\_\_  
Bid price to exclude tax (HST).

It is agreed that the unit(s) as bid will be **delivered complete within \_\_\_\_\_ weeks (state number of weeks)** from date of purchase order. Delivery is to be made to the R. Elmer Ruddick Nakina Airport, 450 Cordingley Lake Road, Nakina, ON.

The tender price is to remain open for acceptance by the Municipality for a period of 90 days from date of tender closing. This shall in no way operate as a waiver on the Municipality of Greenstone or any of its rights under the contract.

It is understood by the undersigned that the right is reserved by the Municipality of Greenstone to reject any and all bids, and to accept any bid deemed to be in the Municipality's best interest.

<b>Company:</b>	<b>Address:</b>
<b>Name: (print)</b>	<b>Signature:</b>
<b>Tel. No.</b>	<b>FAX No.</b>
<b>Date:</b>	<b>Email:</b>
<b>Remarks:</b>	

**Bidders are to indicate and confirm the following on the line below:**

**Number of Addenda received and acknowledged:** \_\_\_\_\_

I hereby confirm/acknowledge that I have read and understand the instructions, specifications and terms and conditions contained in this document.

\_\_\_\_\_  
**Signature of Bidder**

**ANY OR ALL TENDERS MAY NOT NECESSARILY BE ACCEPTED**