



Kenora Airport Authority Inc.
1561 Airport Road,
PO Box 469
Kenora, ON
P9N 3X5
Main Office: (807)548-5377

Kenora Airport Authority Inc. has been approved for ACAP funding to purchase a New Airport Tow-behind Runway Sweeper. The Kenora Airport Authority Inc. is seeking proposals as per the attached RFP specifications for the supply of this equipment. The scope of project should include the complete system, delivery and training. Please outline the time implementation schedule from contract award up to and including full airport operational implementation and any system support and warranties included. The Kenora Airport has set a deadline for submissions of 3:00 pm central time Friday June 25th 2021. RFP submission requirements follow this cover. (Attachment A)

Sealed Proposals marked “ **RFP KA-006-2021 AIRPORT TOW- BEHIND RUNWAY SWEEPER PURCHASE**” will be received up to and including 3:00 pm central time on Friday June 25th 2021 for the following: **Supply, delivery and Training of Airport Tow-Behind Runway Sweeper.**

Tenders shall be submitted in a sealed envelope with brochures and clearly marked Sweeper Tender and submitted by: (Name of Company)

The lowest or any tender not necessarily accepted. The Kenora Airport Authority Inc. reserves the right to reject any or all tenders to waive irregularities and formalities therein and to award the tender bid in the best interest of the Kenora Airport Authority Inc.

All Tenders received become the property of the Kenora Airport Authority Inc. and such are subject to the Freedom of Information and Protection of Privacy Act.



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ATTACHMENT "A"
PROPOSAL ADMISSION INSTRUCTION



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SECTION 1 – INSTRUCTIONS TO PROPONENTS

The following information provides details of the Request for Proposal process that will be followed.

1.1 MEETING FOR PROPONENTS

Should it be deemed necessary by the Kenora Airport Authority to hold a meeting with Proponents to provide additional information or to clarify issues, such meeting will be held either via teleconferencing or email at a date and time to be determined, which would be before the RFP closing date. Proponents will have the opportunity to ask questions and provide comments or suggestions on the project.

1.2 COMMUNICATIONS REGARDING REQUEST FOR PROPOSAL

All communication concerning this Request for Proposal shall be in writing (via email only) and directed to:

Michael Zroback
Airport Manager
Kenora Airport Authority Inc.
kairport@kmts.ca

No person other than the above named person or his or their authorized representative is authorized to speak to the Authority with respect to this RFP. Proponents who seek to obtain information, clarification or interpretation from another Airport Authority member or employee is advised that such material is used at the proponents own risk, and the Airport Authority shall not be bound by any such representations.

Answers to questions and clarifications may be released in the form of an addendum should the Airport Authority determine the information is relevant to all Proponents. Questions may be submitted until **3:00 pm Central Time, on Thursday, June 17th 2021**. The Airport Authority will not be under any obligation to answer questions **submitted after June 17th 2021**.

No verbal arrangement or agreement, relating to the work required under this project specified or requested under this RFP will be considered binding and every notice, advice or other communications pertaining to it, must be in writing.



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1.3 ELECTRONIC COMMUNICATIONS

All enquiries received via electronic mail waive all rights of confidentiality of the enquiry in the method of transmission and the Proponent shall assume all risks of such methods of communication.

1.4 ADDENDA

The Airport hereby reserves the right in its sole discretion to amend this Request for Proposal any time prior to the closing date and time. Proponents are advised that any changes to the Proposal shall only be done by formal written addenda issued by the Airport.

1.5 COST OF PROPOSAL

All costs directly or indirectly incurred by the Proponent in responding to this Request for Proposal shall be at the sole cost of the Proponent.

1.6 SUBMISSION OF PROPOSAL

Tenders are to be submitted in duplicate in a sealed envelope marked:

“ RFP KA-006-2021 AIRPORT TOW- BEHIND RUNWAY SWEEPER PURCHASE”

will be received up to and including 3:00 pm central time on Friday June 25th 2021 for the following:

Supply, delivery and Training of Airport Tow-Behind Runway Sweeper.

Proposal submissions shall be clearly marked with the Proposal number, name and name of Proponent.

Email, Facsimile proposals will not be accepted, acknowledged or returned.

Proponents are solely responsible for ensuring their proposal is received on time via mail. Proposals shall be irrevocable for any reason for a period of not less than ninety (90) calendar days following the closing date.



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1.7 PROPOSAL SUBMISSION PACKAGE

The proposal submission package shall be mailed in or delivered. The package must include the signed Acknowledgement forms and any forms provided in the Request for Proposal document to be completed by the Proponent.

The required insurance certificate for a Proposal involving onsite labour component, WSIB Clearance certificate, is required from the successful proponent.

1.8 EVALUATION OF PROPOSALS

Proposals will be evaluated by a Committee comprised of Kenora Airport Staff, who will provide a recommendation to the board of directors of the Kenora Airport Authority regarding the successful proponent.

1.9 ELECTRONIC INFORMATION

As a convenience to Proponents, the Authority will receive enquires via electronic mail. However, by emailing enquiries, Proponents agree to waive all rights of confidentiality in their transmission and shall assume all risks of such methods of communication.

1.10 INFORMATION RELEASE TO PROPONENTS

The number of Proposals received and the names of the Proponents are confidential and shall not be divulged prior to the opening.

1.11 SUBMISSION OF MORE THAN ONE PROPOSAL

If two Proposals for the same project are submitted, the Proposals must be marked as Proposal A and Proposal B.

If two Proposals for the same project are submitted separately, the proposal with the latest date and time received shall be considered the intended proposal.



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The Airport Authority reserves the right in its sole discretion to determine the feasibility and acceptability of any alternative solution proposed.

Proponents are cautioned to ensure that a proposal responding to the original requirements of this RFP is also submitted, as alternative proposals alone will not be accepted.

All alternative proposals will be evaluated separately following evaluation of original requirements proposals and, on the same criteria as the original requirements proposal with necessary changes.

SECTION 2 – TERMS AND CONDITIONS OF REQUEST FOR PROPOSAL

Each Proponent, by submitting a Proposal, represents that the Proponent has carefully read, understands and accepts the terms and conditions and specifications of the Request for Proposal in full.

2.1 PROPOSAL REQUIREMENTS

Proponents are required to conform to the conditions listed below and those failing to do so may be subject to disqualification:

- a) The proposal Acknowledgement forms (Attached C) must be signed in the space(s) provided on the form, with the authorized signature of the Proponent. If a joint Proposal is submitted, it must be signed on behalf of each of the Proponents and if the signing authority for both Proponents is vested in one (1) individual, he/she shall sign separately on behalf of each Proponent. In the case of an incorporated company, the corporate seal must be affixed to the proposal forms.
- b) All Proposals shall be legible and conform to the conditions listed below and those failing to do so may be subject to disqualification.
- c) Prices must be in figures and in Canadian Dollars and include all tariffs and freight, unless otherwise stipulated. Taxes must be included, but listed separately from all other costs.
- d) Adjustments by telephone, and or facsimile, email or letter to a Proposal already submitted will not be considered. A Proponent desiring to make adjustments to a Proposal must withdraw the Proposal and/or supersede it with a later Proposal submission prior to the specified closing time.



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2.2 PROPONENTS OBLIGATION TO EXAMINE

While the Kenora Airport Authority has made every effort to ensure the accuracy of the information provided in this document and otherwise to the Proponent, the Proponent shall not make any claim against the Authority for damages or extra work caused or occasioned by the Proponent relying upon such records, reports, or information whether as a whole or in part, furnished by the Airport Authority or an employee of the Airport Authority.

2.3 OMISSIONS, DISCREPANCIES, CLARIFICATIONS, AND ADDENDA

Considerable effort has been made to ensure an accurate representation of information in this document. The information is not guaranteed or warranted to be accurate by the Airport Authority, or is it necessarily comprehensive or exhaustive. Nothing in the Request for Proposal is intended to relieve the Proponent from forming their own options and conclusions with respect to the matters addressed in the request for Proposal.

Should a Proponent find omissions from, or discrepancies in, any of the Request for Proposal documents, or should he/she be in doubt as to the meaning of any part of those documents, it will be the Proponent's responsibility to immediately notify the Airport Authority in writing. (Reference Section 1.2 for contact information.)

The Airport Authority has reserved the right to clarify any proposal during the evaluation process, but shall not be bound to do so and Proponents should not assume they will have any further opportunity to clarify their proposal following the closing date and time.

2.4 ALLOCATION OF RISK

The Kenora Airport Authority shall not be responsible for any liabilities, costs, expenses, loss of damage incurred sustained or suffered by any Proponent by reason of non-acceptance by the Airport of any Proposal submission or by reason of any delay in its acceptance.



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2.5 CONFLICT OF INTEREST

Failure by a Proponent to declare any potential conflict of interest or to obtain a waiver of any such conflict shall be grounds for the Airport Authority to terminate any Contract formed without liability and for cause.

The following policy shall apply to this Request for Proposal and subsequent contract:

1. No employee or elected official from the Airport Authority may submit a Proposal.
2. All employees or elected officials shall disclose any business or personal relationship they might have in relation to this RFP or subsequent contract which might create a potential conflict of interest relative to the project.
3. All Proponents retained by the Airport Authority shall disclose to the Airport prior to accepting an assignment, any potential conflict of interest. If such a conflict of interest does exist, the Airport Authority may, at its discretion, choose not to award or may withhold the awarding of the contract until the matter is resolved to the satisfaction of the Airport Authority. Furthermore, if during the carrying-out of the project, a Proponent is retained by another client giving rise to a potential conflict of interest, and then the Proponent shall so inform the Airport Authority.

2.6 GRATUITIES

Proponents shall certify that no Airport Authority member has benefited or will benefit financially or materially from the award of the contract. Any contract may be terminated by the Airport Authority if it is determined that gratuities of any kind were either offered, or received by any member of the Kenora Airport Authority.



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2.7 GOVERNING LAW

The law of the Province of Ontario shall apply to this Request for Proposal and any contract formed as a result of this RFP and the Courts of Ontario shall have exclusive jurisdiction over any contract as a result of this Request for Proposal.

2.8 LEGAL PROCEEDINGS WITH THE AIRPORT AUTHORITY

No Proposal will be accepted from any company which has a claim or has instituted a legal proceeding against the Authority or against whom the Authority has a claim or instituted a legal proceeding with respect to any previous contract or matter.

2.9 COMPLIANCE WITH LAWS

Any Proponent is required to ensure compliance to and with any and all applicable laws and statutes. Failure to do so will result in the immediate cessation of business with the Airport Authority and the appropriate authorities will be notified.

2.10 SUBCONTRACTING AND ASSIGNMENTS

Proponents should note that, unless otherwise agreed, the Airport Authority will assume that the employees or agents of the Proponent will be performing all services required by this RFP and any subsequent contract, which may be entered into the Authority. Any subcontracting or assignment in whole or in part by the selected Proponent must be approved by the Airport Authority in advance.

2.11 JOINT PROPOSALS

In the event two or more persons, firms, companies or other organizations wish to submit a joint or consortium proposal pursuant to this RFP, the proposal shall identify a single prime Proponent who will be responsible for the overall project management and successful completion of the Project.

Such prime Proponent shall provide a single point of contact and single billing point and shall for all intents and purposes be treated as the selected Proponent under the contract. The Airport Authority shall not be liable for payment to any of the selected Proponent's partners, subcontractors, employees, agents or consultants in the event the selected Proponent defaults on its responsibilities.



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2.12 IRREGULARITIES

- The Airport Authority reserves the right in its sole discretion to:
- a) Waive (or not waive) irregularities and/or minor non-compliance by any Proponent with the requirements of this RFP;
 - b) Request clarification and/or further information from one or more Proponents after closing without becoming obligated to offer the same opportunity to all Proponents.
 - c) Enter into contract discussions with one or more Proponents; and
 - d) To award to more than one Proponent if it is the Authorities best interest to do so.

2.13 CONFIDENTIALITY OF INFORMATION

All Proponents are advised that the Kenora Airport Authority is subject to inter-provincial and international trade agreements, which may result in disclosure of information.

2.14 MATHAMATICAL ERRORS

In the event of mathematical errors in extension of prices or other ambiguities, unit prices shall govern over total Proposal prices and words shall govern over numbers.

2.15 RIGHT TO ACCEPT OR REJECT SUBMISSION

The Airport Authority reserves the right to accept or reject all or part of any submission or to rescind this Request for Proposal at any time at no cost to the Kenora Airport Authority.

2.16 PROPOSAL CONTENT AND SCOPE OF PROJECT

Proposals must contain fully completed specifications form found in Attachment B.

3.0 WORK PROGRAM AND SCHEDULE AND FINANCIAL CONSIDERATION

Proposals must contain an itemized cost estimate to achieve each milestone within the Proponents recommended approach. Each Proposal must contain a total cost;



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3.1 PROPONENT STUDY TEAM

The Proposal should include a brief history of the Proponents Firm;
The Proposal must contain information of staff that will perform the work, including qualifications and previous experience;
Project lead must be clearly identified with qualifications and previous work experience.

3.2 REFERENCE / EXPERIENCE

Proponents are required to include a minimum of two airport sector references and contact information including names, addresses and numbers.

3.3 ACKNOWLEDGEMENT

All Proponents shall complete the Acknowledgement document contained in Section 6 of this RFP and submit it as part of the Deliverables.

SECTION 4 – EVALUATION OF RFP AND SELECTION OF PROPONENT

4.1 EVALUATION FOR COMPLIANCE

All proposals received will be initially evaluated to determine the degree to which each proposal meets the mandatory requirements of this RFP. Proposals that are non-compliant with the mandatory requirements may be subject to disqualification without further evaluation. Proponents are urged to ensure their proposal addresses all mandatory elements of this RFP.

4.2 AWARD

The Kenora Airport Authority reserves the right in its sole discretion to negotiate modifications to any proposal received without becoming obligated to offer to negotiate with any other Proponent(s). If negotiations with the selected Proponent are unsuccessful, the Airport Authority reserves the right in its sole discretion to enter into negotiations with any other Proponent(s).



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SECTION 5 – TERMS AND CONDITIONS

Should a contract be awarded, the reverence to Proponent would become, Provider.

5.1 AWARDING OF CONTRACT

The authority to award a contract rests exclusively with the Kenora Airport Board of Directors of the Kenora Airport Authority Inc.

The Board of Directors will exercise its authority in respect of a contract for this project by way of by-law(s) and/or resolution(s) passed at properly constituted meeting(s)

5.2 IDEMNITY

By submitting a Proposal to the Kenora Airport Authority, the Proponent agrees that he/she shall be responsible for and shall give adequate attention to the faithful prosecution and completion of all matters pursuant to the contract. In addition to the protection provided, the Proponent shall promptly indemnify and save harmless the Airport Authority from all suits and actions for damages and costs to which the Airport Authority might be put by reason of injury to or death of persons and damage to property resulting from negligence, breach, fault, act, omission, default, carelessness or any other cause in the performance by, and shall survive, the termination of the contract.

- 5.3** The Proponent shall, during the entire term of an Agreement, and any renewal or extension thereof, take out and keep in force and effect insurance for Commercial General Liability bodily injury including death, property damage, personal injury, contingency employers liability and cross liability and Environmental Insurance in which the limits of liability shall be no less than \$ 5,000,000.00 per occurrence, and no less than \$ 5,000,000.00 per claim for each General Insurance including Non-Owned Automobile of not less than \$ 2,000,000.00 per occurrence, all at the Proponents sole cost and expense.

All policies shall be written with insurance companies qualified to do insurance business in the Province of Ontario. The insurance shall be with insurers acceptable to the Airport Authority. A copy of all insurance policies or certificates of insurance shall be delivered to the Airport Authority prior to the commencement of work at the sole cost of the Proponent.



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5.4 INSURANCE CERTIFICATE

The Proponent shall provide certificate of Insurance with the Airport Authority, and its employees added as additional insured with respect to Commercial General Liability and Environmental policy. All policies of insurance shall provide for thirty (30) days written notice to the Airport Authority prior to cancellation, material change or amendments restricting coverage of any policy or policies.

5.5 OCCUPATIONAL HEALTH AND SAFETY

The Proponent shall comply fully with the entire Occupational and Safety Act.

5.6 WORKPLACE SAFETY AND INSURANCE

The Proponent will be required to furnish the Kenora Airport Authority with a Workplace Safety & Insurance Board Certificate of Clearance. The Proponent shall at all times comply with the provisions of the WSIB Act.

5.7 PERMITS, FEES AND LICENCES

The Proponent shall pay for any and all permits, licences and fees, and give notices and comply with all by-laws and regulations of Municipality and any other governing body, wherever applicable, unless otherwise specified.

5.8 TIME IS OF THE ESSENCE

Time is of the essence and the Proponent shall deliver the goods and services in strict accordance with the approved project schedule, delivery date, quantity and the requirements as specified in the agreement.

5.9 COPYRIGHT

The Proponent represents warrants and covenants that the services to be rendered and the outcomes to be produced do not infringe any patent, copyright trademark or other intellectual or Industrial property right. All plans, reports and final documentation produced by the Proponent will be the sole and exclusive property of the Kenora Airport Authority Inc.



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ATTACHMENT "B"

SPECIFICATIONS

THE KENORA AIRPORT AUTHORITY INC.

SPECIFICATIONS FORM

AIRPORT TOW-BEHIND RUNWAY SWEEPER PURCHASE

RFP KA-006-2021

IMPORTANT

The vendor must complete this section in full. Descriptions of items as shall be, to be and must be are mandatory and no deviations will be accepted. Non mandatory items that do not meet specifications must be described in the right column or in addenda in such a way that the purchaser can reasonably determine whether or not the deviation is acceptable, in the purchaser's sole judgement, without the need to call the vendor for additional information.

State

State MAKE _____ MODEL _____ & YEAR _____

Of equipment offered.

AIRPORT SPECIFICATIONS

VENDOR SPECIFICATIONS

1.0 General

<p>The sweeper 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</p>	<p>Comply: Yes _____ No _____</p>
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<p>commercial trade and shall have been proven in service for the application specified, for at least 3 years prior to the request for proposal.</p>	<p>MAKE _____</p> <p>MODEL _____</p>
<p>Each sweeper supplied under this specification shall be a fifth wheel mounted towed runway sweeper, heavy duty, capable of operating at a minimum 40 km/h.</p>	<p>Comply: Yes_____ No_____</p>
<p>The unit shall be equipped with a minimum 14 ft. (4.27 m) wide horizontal rotating broom, a minimum 360 hp engine, and an air blower of minimum 23,500 cu. ft./min output.</p>	<p>Comply: Yes_____ No_____</p>
<p>The sweeper 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.</p>	<p>Comply: Yes_____ No_____</p>
<p>The sweeper must be used by at least 5 airports in North America</p>	<p>Comply: Yes_____ No_____</p>

<p>Manufacturer or dealer must have a parts warehouse and service shop in Canada with full-time service manager and parts manager. Relying on drop shipping parts from outside of Canada is not acceptable.</p> <p>Service shop must be fully staffed during standard workweek and accept support phone calls 24/7/365</p>	<p>Warehouse Address: _____</p> <p>_____</p> <p>Service Shop Address (if different from above): _____</p> <p>_____</p> <p>Parts Manager: _____</p> <p>Service Manager: _____</p>
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2.0 Operating Conditions

<p>Each sweeper must be new and ready for operation when delivered to destination.</p>	<p>Comply: Yes _____ No _____</p>
<p>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.)</p>	<p>Comply: Yes _____ No _____</p>
<p>The sweeper must not experience any broom bounce or wheel shimmy when removing snow, slush or remains at 40 km/h, with a</p>	<p>Comply: Yes _____ No _____</p>

broom pattern setting of 8 to 10 cm (3 to 4 in)	
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3.0 Regulations and Standards

All standards and specifications referenced herein refer to the latest editions.	Comply: Yes_____ No_____
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4.0 Delivery

A pre-delivery service must be completed by the manufacturer prior to delivery.	<p>State:</p> <p>Factory Authorized PDI Representative</p> <p>_____</p> <p>Address</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Contact:</p> <p>Contact Tel. # _____</p>
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.	Comply: Yes_____ No_____
All necessary documentation shall be provided	

to the consignee when the unit is delivered.	Comply: Yes _____ No _____
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.	Comply: Yes _____ No _____
A final inspection shall be completed by the consignee at time of delivery.	Comply: Yes _____ No _____
<i>Delivery must be no later than 15-20 weeks ARO.</i>	Comply: Yes _____ No _____

5.0 MANUALS

Each towed sweeper 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.	Comply: Yes _____ No _____
Each towed runway sweeper 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.	Comply: Yes _____ No _____

<p>Each towed runway sweeper 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.</p>	<p>Comply: Yes _____ No _____</p>
<p>If available, provide a minimum 20-minute training video, in English, showing the proper operations and preventive maintenance procedures.</p>	<p>Comply: Yes _____ No _____</p>
<p>Manuals – Provide one copy of the shop/service repair manual.</p>	<p>Comply: Yes _____ No _____</p>

6.0 WARRANTY

<p>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.</p>	<p>Comply: Yes _____ No _____</p> <p>WARRANTY OFFERED:</p>
<p>If requested warranty repairs have not commenced within a 48-hour period following notification, Kenora Airport 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.</p>	<p>Comply: Yes _____ No _____</p>

<p>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.</p>	<p>DEALER _____</p> <p>NAME _____</p> <p>TEL. _____</p>
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SWEEPER

7.0 General Specifications and Conditions

<p>The unit must be a Pintle-hitch, towed type runway sweeper.</p>	<p>Comply: Yes _____ No _____</p>
<p>The broom assembly must be driven by a closed loop hydrostatic drive.</p>	<p>Comply: Yes _____ No _____</p>
<p>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.</p>	<p>Comply: Yes _____ No _____</p>
<p>The sweeper must be towed in line with the truck.</p>	<p>Comply: Yes _____ No _____</p>
<p>The unit must be designed to operate in ambient conditions from minus 40 degrees to plus 40 degrees Celsius.</p>	<p>Comply: Yes _____ No _____</p>

The unit must be capable of operating on concrete and asphalt surfaces at full rated capacities.	Comply: Yes _____ No _____
The maximum allowable sweeper weight is 26,500 lbs. (12,021 kg)	Comply: Yes _____ No _____ STATE ACTUAL WEIGHT _____ LBS _____ KG
Excepting broom pattern adjustment, the sweeper must be capable of completing a turn in a 20 m (65 ft.) diameter clearance circle.	Comply: Yes _____ No _____
The unit must be capable of operating a minimum of 24 hours without adjustment and lubrication.	Comply: Yes _____ No _____

8.0 Performance

The Sweeper must be capable of operating without a broom bounce or wheel shimmy up to 40 km/h at an 8 to 10 cm (3 to 4 in) pattern.	Comply: Yes _____ No _____
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<p>The minimum broom speed must be between 0 and 900 RPM.</p>	<p>Comply: Yes_____ No_____</p> <p>STATE ACTUAL: _____ - _____RPM</p>
<p>The broom must have a minimum width of 14 ft. (4.25 m).</p>	<p>Comply: Yes_____ No_____</p> <p>STATE ACTUAL WIDTH: _____ft.</p>
<p>The sweeping angle must be a minimum of 30 degrees right to 30 degrees left of the transverse position.</p>	<p>Comply: Yes_____ No_____</p>
<p>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.</p>	<p>Comply: Yes_____ No_____</p>
<p>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 an 8 to 10 cm (3 to 4 in) pattern.</p>	<p>Comply: Yes_____ No_____</p>
<p>In order to maximize lifetime of bristles/brushes, broom pattern must adjust based on pressure on the bristles/brushes and not based on time used</p>	<p>Comply: Yes_____ No_____</p>

9.0 Dimensions

<p>The maximum overall length from the hitch to rear of the sweeper, to be 12m (40 ft.).</p>	<p>Comply: Yes _____ No _____</p> <p>STATE ACTUAL: _____ ft.</p>
<p>The maximum overall width with all components installed to be 4.9 m (16 ft.).</p>	<p>Comply: Yes _____ No _____</p> <p>STATE ACTUAL: _____ ft.</p>
<p>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.</p>	<p>Comply: Yes _____ No _____</p> <p>STATE ACTUAL: _____ in</p>
<p>The maximum overall height of all components to be 3 m (10 ft.)</p>	<p>Comply: Yes _____ No _____</p> <p>STATE ACTUAL: _____ ft.</p>

10.0 Frame

<p>The sweeper shall be designed with a heavy</p>	
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duty welded frame.	Comply: Yes _____ No _____
The frame must be constructed from structural steel.	Comply: Yes _____ No _____
The cross section modulus (CSM) must be sufficient to prevent frame distortion.	Comply: Yes _____ No _____
All nuts and bolts must be non-rusting quality. Zinc is not permitted.	Comply: Yes _____ No _____

11.0 Engine

The engine must be a liquid cooled diesel in current production.	Comply: Yes _____ No _____
The engine must have a minimum of 360 HP (268 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.	Comply: Yes _____ No _____
The minimum continuous engine torque rating to be 850 lb./ft.	Comply: Yes _____ No _____ STATE ACTUAL: _____ lb./ft.

The maximum engine speed must be no more than 2,200 RPM.	<p>Comply: Yes_____ No_____</p> <p>STATE ACTUAL: _____RPM</p>
Provide a two stage, heavy-duty air cleaner.	<p>Comply: Yes_____ No_____</p>
Provide a heated engine fuel filter/water separator, complete with a glass bowl, and a replaceable element.	<p>Comply: Yes_____ No_____</p>
Provide a thermostatically controlled fan clutch for the cooling system if not "Air to Air".	<p>Comply: Yes_____ No_____</p> <p>STATE ACTUAL: _____</p>
Provide a severe duty radiator	<p>Comply: Yes_____ No_____</p>
Provide a minimum 110V, 1,500-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.	<p>Comply: Yes_____ No_____</p>
Provide a vertical exhaust complete with a muffler installed horizontally on the engine	

enclosure, and an elbow rain cap.	Comply: Yes_____ No_____
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.	Comply: Yes_____ No_____

12.0 Fuel Tank

Provide a minimum 500 litre capacity fuel tank.	Comply: Yes_____ No_____
The filler must be exterior and accessible from both sides of the machine in front of the wheels to help prevent debris build up on the opening.	Comply: Yes_____ No_____
The inscription DIESEL FUEL ONLY must be marked in minimum 50 mm (2 in) letters near the filler.	Comply: Yes_____ No_____

13.0 Tow Hitch

The sweeper must be equipped with a Pintle hitch to fit Kenora Airport's chassis.	Comply: Yes_____ No_____
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14.0 Cowling

Provide a durable enclosure, which protects the major components from the elements.	CO Comply: Yes_____ No_____
The enclosure on the engine hood must be lift-able with a safe method to hold hood it in place.	Comply: Yes_____ No_____
The top of the cowling must either fold open or be easily removed to allow the engine to be easily removed from the sweeper.	Comply: Yes_____ No_____
Provide a positive latching mechanism to secure the doors in the closed position.	Comply: Yes_____ No_____
Provide an easy positive mechanical means of holding the doors (and roof if folding type) open.	Comply: Yes_____ No_____
Must be a minimum of three working lights in the engine compartment to allow work to be performed at night	Comply: Yes_____ No_____

15.0 Power Take Off

The sweeper is to be driven by relief valve and pump management protected closed	
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loop hydrostatic drive via a direct drive (gear driven, not belt) pump.	Comply: Yes _____ No _____
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16.0 Electrical System

The sweeper must be equipped with a 24 volt electrical and starting system.	Comply: Yes _____ No _____
Provide a minimum of three batteries with total 3,000 CCA	Comply: Yes _____ No _____
Provide a "DELCO" type 25 or 30 SI alternator or equivalent having a minimum of 85-amp output.	Comply: Yes _____ No _____ Provide details:
Shall provide a Target-Tech heavy duty model 1262, Phase II amber strobe light, double flash, high and low intensity. No deviation will be accepted. The light is to be mounted as high as possible on the rear engine enclosure.	Comply: Yes _____ No _____
Provide a minimum of four spotlights capable of illuminating the broom.	Comply: Yes _____ No _____

<p>Provide rear stop and three-way LED lamps. Tail lamps shall be conventional positions lamps. Everything shall be waterproof and shockproof.</p>	<p>Comply: Yes _____ No _____</p>
<p>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.</p>	<p>Comply: Yes _____ No _____</p>
<p>The wiring must be marked with numbers to provide identification. Circuit identifiers must be attached to each end of the wire</p>	<p>Comply: Yes _____ No _____</p>
<p>The engine is to be complete with a 24-volt starter.</p>	<p>Comply: Yes _____ No _____</p>
<p>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.</p>	<p>Comply: Yes _____ No _____</p>
<p>Provide a 110-volt battery heater complete with an external plug. Provide a minimum of 4.6 m (15 feet) of cord. This plug should be common or be co-located with the engine coolant heater.</p>	<p>Comply: Yes _____ No _____</p>

17.0 PAINTING

Factory Installed proven and heavy duty paint. Colour RAL 1004, Airport Yellow	Comply: Yes _____ No _____
Due to aggressive nature of chemicals used on airport runways, all steel components must be sandblasted after welding, primed at minimum of two times, and have a minimum of two layers of paint.	Comply: Yes _____ No _____
Paint thickness must be minimum 200µm	Comply: Yes _____ No _____

18.0 Broom Drive

The broom must be directly hydraulically driven via a closed loop hydrostatic system with one hydraulic motor	Comply: Yes _____ No _____
The broom speed must be variable speed with a minimum of 0-500 RPM.	Comply: Yes _____ No _____
Broom RPM must automatically adjust according to operating speed (RPMs too lower when vehicle speed lowers and increase when vehicle speed increases)	Comply: Yes _____ No _____
Broom RPM must automatically adjust when the brush wears (RPM must increase as the brush wears to keep constant tip	

speed	Comply: Yes _____ No _____
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19.0 Broom Frame

The broom frame must be supported on two caster wheels. The caster wheels must swivel 180 degrees.	Comply: Yes _____ No _____
When reversing, the broom must automatically lift off the ground to prevent damage.	Comply: Yes _____ No _____
The caster wheels must be complete with a mechanical brake to prevent wheel shimmy up to 50 km/h.	Comply: Yes _____ No _____
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 by automatically adjusting to the diameter of the broom as it wears.	Comply: Yes _____ No _____
The cover must be made of glass fiber to prevent snow built up.	Comply: Yes _____ No _____
The broom frame must be designed to withstand the weight of the broom with a full set of steel wafers or cassettes and a full snow load on the cover.	Comply: Yes _____ No _____

The broom frame must be adjustable from 30 degrees right to 30 degrees left.	Comply: Yes _____ No _____
The broom stops shall be sufficiently designed to withstand the full dynamic loading of the broom hydraulic angling cylinders.	Comply: Yes _____ No _____

20.0 Axles

The axle is to be a heavy duty type rated for a minimum of 110 percent of the maximum axle weight. The rear axle bearings must be lubricated with grease.	Comply: Yes _____ No _____
The sweeper must be complete with a minimum of two wheels with brakes.	Comply: Yes _____ No _____

21.0 Broom

The sweeper is to be complete with a minimum 4 m (14 ft.) wide horizontal rotating broom.	Comply: Yes _____ No _____
The broom core is to be balanced	Comply: Yes _____ No _____

The broom core is to be 273 mm (10.75 in.) diameter. No deviations will be accepted.	Comply: Yes_____ No_____
Provide a complete set of steel broom wafers/cassette and spacers at 1 to 1 spacing.	Comply: Yes_____ No_____
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.	Comply: Yes_____ No_____

The broom must have a minimum of 20 cm (7.8 in) ground clearance with new broom wafers/cassettes installed.	Comply: Yes _____ No _____
The broom must be automatically adjusting	Comply: Yes _____ No _____

22.0 Wheels and Tires

The tires and wheels weight rating must be a minimum of the axle rating.	Comply: Yes _____ No _____
All chassis tires must be tubeless radial ply type construction, winter tires.	Comply: Yes _____ No _____
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.	Comply: Yes _____ No _____
The maximum tire load shall be 500 lbs. per inch of tread width.	Comply: Yes _____ No _____
During the normal operation of the sweeper there shall be no side load on the caster tires.	Comply: Yes _____ No _____

The caster wheels shall be designed to eliminate any wheel shimmy while allowing enough free movement to always run parallel to the sweeper axis.	Comply: Yes_____ No_____
The caster wheels shall be designed to be easily removed and replaced.	Comply: Yes_____ No_____

23.0 Instruction Identification

Provide permanently installed ISO written instructions, diagrams and warning plates where required to ensure efficient operation and servicing with maximum safety.	Comply: Yes_____ No_____
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24.0 Air Blower

Provide an air blower to clean the residue left from the broom assembly. The air intake for the blower <u>must</u> be inside the engine compartment to prevent any snow, ice or other debris being drawn into the fan.	Comply: Yes_____ No_____
The output of the air blower must be adjustable between 0%-100%. A simple on/off is not acceptable.	

	Comply: Yes_____ No_____
The air blower is to have a minimum output capacity of 24,000 SCFM at the blower outlet.	Comply: Yes_____ No_____
The air blower assembly shall be directly mounted. The fan shall be driven by a variable speed, hydrostatic motor.	Comply: Yes_____ No_____
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).	Comply: Yes_____ No_____
The air outlet velocity of each nozzle must be a minimum of 325 MPH.	Comply: Yes_____ No_____
The nozzles must be capable of being lowered to a minimum of 10cm (4 in) off the runway surface.	Comply: Yes_____ No_____
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.	Comply: Yes_____ No_____

25.0 Control Panel

<p>The Control panel must be robust and easy to use complete with bright control panel display</p>	<p>Comply: Yes_____ No_____</p>
<p>The control panel must have an emergency stop button that is red and easily in view and accessible to the operator</p>	<p>Comply: Yes_____ No_____</p>
<p>The control panel must have the following functions:</p> <ul style="list-style-type: none"> • Warning status • Sweeper position indicator • Working mode indicator • Battery voltage • Brush adjustment menu option • Brush mode menu button • Engine tachometer • Brush speed indicator • Fan speed indicator • Select and confirm button • Escape and abort button • Diesel tank level • Settings menu button • Brush indicator • Working lights on/off • Temperature • Rotating beacon on/off • Front air • Engine stop/start • Warning status 	<p>Comply: Yes_____ No_____</p>
<p>Must have an engine information button to access engine information. Must provide the following engine information:</p> <ul style="list-style-type: none"> • Total operating hours • Engine oil pressure • Engine oil temperature • Coolant temperature • Engine load 	<p>Comply: Yes_____ No_____</p>

<ul style="list-style-type: none"> • Battery voltage • Fuel consumable litres/hour • Fuel consumable grams/hour 	
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26.0 Hydraulic System

Hydraulic pump must be directly mounted to the fly wheel	Comply: Yes _____ No _____
Provide a nominal 150-litre hydraulic tank	Comply: Yes _____ No _____
Hydraulic fittings must be constructed with non-corrosive materials. Zinc not acceptable.	
The hydraulic tank must be complete with a breather cap and a site level gauge.	Comply: Yes _____ No _____
Must have an electronic hydraulic emergency pump as standard. Hand pumps not permitted	Comply: Yes _____ No _____
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.	Comply: Yes _____ No _____
The hydraulic fluid is to be provided in	

consideration of very cold weather.	Comply: Yes _____ No _____
Hydraulics shall control the angling and the elevation of the broom and the air nozzle assemblies.	Comply: Yes _____ No _____
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.	Comply: Yes _____ No _____
All hydraulic lines shall be secured to the frame and shall be installed to prevent chafing and damage during sweeper use.	Comply: Yes _____ No _____
Must be able to operate all hydraulic functions without starting the engine by means of an electro-hydraulic pump	Comply: Yes _____ No _____

27.0 Remote Control

Provide a remote box to allow the sweeper to be operated from the cab of the truck.	Comply: Yes _____ No _____
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).	Comply: Yes _____ No _____

<p>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.</p>	<p>Comply: Yes _____ No _____</p>
<p>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.</p>	<p>Comply: Yes _____ No _____</p>
<p>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 fifth wheel hitch.</p>	<p>Comply: Yes _____ No _____</p>

28. Remote Telematics System

<p>Unit must come complete with onboard remote telematics system to allow the manufacturer/dealer to access and diagnose the sweeper remotely.</p>	<p>Comply: Yes _____ No _____</p>
<p>Data from the machine must be transferred to the cloud via a mobile connection.</p>	<p>Comply: Yes _____ No _____</p>
<p>The machine must have its' own account directly associated with it.</p>	<p>Comply: Yes _____ No _____</p>
<p>Must have option for airport to purchase</p>	

<p>access to the system at a later date.</p> <p>Airport use of the system must include:</p> <ul style="list-style-type: none">• Pre-programming the sweeper based on weather conditions• Pre-program the pattern of the sweeper from desktop• Pre-program air blower speeds• Provide real-time parameters including fuel and chemical volumes• Allow critical engine information to be monitored and documented in reports	<p>Comply: Yes _____ No _____</p>
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Kenora Airport Authority Inc.
1561 Airport Road,
PO Box 469
Kenora, ON
P9N 3X5
Main Office: (807)548-5377

ATTACHMENT "C"

PROPOSAL FORM



Kenora Airport Authority Inc.
1561 Airport Road,
PO Box 469
Kenora, ON
P9N 3X5
Main Office: (807)548-5377

THE KENORA AIRPORT AUTHORITY INC.

SPECIFICATIONS FORM

AIRPORT TOW-BEHIND RUNWAY SWEEPER PURCHASE

RFP KA-006-2021

COMPANY NAME: _____

ADDRESS: _____

TELEPHONE NO: _____

FAX NO: _____

EMAIL ADDRESS: _____

AUTHORIZED SIGNATURE: _____

PRINTED NAME: _____

DATE PROPOSED: _____

