



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada

800 Burrard Street, Room 219

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

Bid Fax: (604) 775-7526

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal To: Public Works and Government Services Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

Proposition aux: Travaux Publics et Services Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Pacific
Region

219 - 800 Burrard Street

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

Title - Sujet Airport Runway Sweeper	
Solicitation No. - N° de l'invitation T7061-190010/A	Date 2019-12-09
Client Reference No. - N° de référence du client T7061-190010	
GETS Reference No. - N° de référence de SEAG PW-\$VAN-531-8705	
File No. - N° de dossier VAN-9-42178 (531)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-01-20	Time Zone Fuseau horaire Pacific Standard Time PST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Mak, Goretti M.	Buyer Id - Id de l'acheteur van531
Telephone No. - N° de téléphone (604) 363-0582 ()	FAX No. - N° de FAX (604) 775-7526
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Transport Canada SANDSPIT AIRPORT 1 Airport Road SANDSPIT British Columbia V0T1T0 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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This bid solicitation cancels and supersedes previous bid solicitation number T7061-180018/A dated October 23, 2018 with a closing of December 11, 2018 at 2:00PM. A debriefing or feedback session will be provided upon request to bidders who bid on the previous solicitation.

PART 1 - GENERAL INFORMATION

1.1 Security Requirement

There is no security requirement applicable to this requirement.

1.2 Requirement

The requirement is detailed under Article 2 of the resulting contract clauses.

1.3 Debriefings

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

1.4 Trade Agreements

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agree (CFTA).

1.5 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

The 2003 standard instructions is amended as follows:

- Section 08, entitled Transmission by facsimile or by epost Connect, is amended as follows:
subsection 2. is deleted entirely and replaced with the following:
 - 2. epost Connect
 - a. Unless specified otherwise in the bid solicitation, bids may be submitted by using the [epost Connect service](#) provided by Canada Post Corporation.
 - i. PWGSC, National Capital Region: The only acceptable email address to use with epost Connect for responses to bid solicitations issued by PWGSC headquarters is:
tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca
or, if applicable, the email address identified in the bid solicitation.
 - ii. PWGSC regional offices: The only acceptable email address to use with epost Connect for responses to bid solicitations issued by PWGSC regional offices is identified in the bid solicitation.
 - b. To submit a bid using epost Connect service, the Bidder must either:

-
- i. send directly its bid only to the specified PWGSC Bid Receiving Unit, using its own licensing agreement for epost Connect provided by Canada Post Corporation; or
 - ii. send as early as possible, and in any case, at least six business days prior to the solicitation closing date and time, (in order to ensure a response), an email that includes the bid solicitation number to the specified PWGSC Bid Receiving Unit requesting to open an epost Connect conversation. Requests to open an epost Connect conversation received after that time may not be answered.
 - c. If the Bidder sends an email requesting epost Connect service to the specified Bid Receiving Unit in the bid solicitation, an officer of the Bid Receiving Unit will then initiate an epost Connect conversation. The epost Connect conversation will create an email notification from Canada Post Corporation prompting the Bidder to access and action the message within the conversation. The Bidder will then be able to transmit its bid afterward at any time prior to the solicitation closing date and time.
 - d. If the Bidder is using its own licensing agreement to send its bid, the Bidder must keep the epost Connect conversation open until at least 30 business days after the solicitation closing date and time.
 - e. The bid solicitation number should be identified in the epost Connect message field of all electronic transfers.
 - f. It should be noted that the use of epost Connect service requires a Canadian mailing address. Should a bidder not have a Canadian mailing address, they may use the Bid Receiving Unit address specified in the solicitation in order to register for the epost Connect service.
 - g. For bids transmitted by epost Connect service, Canada will not be responsible for any failure attributable to the transmission or receipt of the bid including, but not limited to, the following:
 - i. receipt of a garbled, corrupted or incomplete bid;
 - ii. availability or condition of the epost Connect service;
 - iii. incompatibility between the sending and receiving equipment;
 - iv. delay in transmission or receipt of the bid;
 - v. failure of the Bidder to properly identify the bid;
 - vi. illegibility of the bid;
 - vii. security of bid data; or,
 - viii. inability to create an electronic conversation through the epost Connect service.
 - h. The Bid Receiving Unit will send an acknowledgement of the receipt of bid document(s) via the epost Connect conversation, regardless of whether the conversation was initiated by the supplier using its own license or the Bid Receiving Unit. This acknowledgement will confirm only the receipt of bid document(s) and will not confirm if the attachments may be opened nor if the content is readable.
 - i. Bidders must ensure that they are using the correct email address for the Bid Receiving Unit when initiating a conversation in epost Connect or communicating with the Bid Receiving Unit and should not rely on the accuracy of copying and pasting the email address into the epost Connect system.
 - j. A bid transmitted by epost Connect service constitutes the formal bid of the Bidder and must be submitted in accordance with section 05.

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

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

The 2003 (2019-03-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 180 days

2.2 Submission of Bids

Offers must be submitted only to the Public Works and Government Services Canada (PWGSC) Bid Receiving Unit specified below by the date and time indicated on page 1 of the RFSO:

Bid Receiving Unit
Public Services and Procurement Canada
800 Burrard Street, Room 219
Vancouver, B.C. V6Z 0B9

TPSGC.RPReceptiondessoumissions-PRBidReceiving.PWGSC@tpsgc-pwgsc.gc.ca –

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions 2003, or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

2.2.1 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 20 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 14 calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

3.1.1 If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

3.1.2 If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copy)
Section II: Financial Bid (1 hard copy)
Section III: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

3.1.3 If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

The technical bid consists of the following:

- i. **Bid Submission Form:** Bidders are requested to include the Bid Submission Form with their bids. It provides a common form in which bidders can provide information required for evaluation and contract award, such as a contact name, the Bidder's Procurement Business Number, the Bidder's status under the Federal Contractors Program for Employment Equity, etc. Using the form to provide this information is not mandatory, but it is recommended. If Canada determines that the information required by the Bid Submission Form is incomplete or requires correction, Canada will provide the Bidder with an opportunity to do so.
- ii. **Substantiation of Technical Compliance:** The technical bid must substantiate the compliance of the Bidder and its proposed solution with the specific articles of Annex A (Requirement) identified in the Substantiation of Technical Compliance Form, which is the requested format for providing the substantiation. The Substantiation of Technical Compliance Form is not required to address any parts of this bid solicitation not referenced in the form. The substantiation must not simply be a repetition of the requirement(s), but must explain and demonstrate how the Bidder will meet the requirements and carry out the required Work. Simply stating that the Bidder or its proposed solution or product complies is not sufficient.

Bidders:

- a Must designate the brand name, model and/or part number of the proposed product; and
- b Must provide complete specifications and descriptive literature to substantiate that the proposed product's meets the mandatory requirements that are specified in the bid solicitation (Form B)

Where Canada determines that the substantiation is not complete, the Bidder will be declared non-responsive and disqualified. The substantiation may refer to additional documentation submitted with the bid - this information can be referenced in the "Reference" column of the Substantiation of Technical Compliance Form, where bidders are requested to indicate where in the bid the reference material can be found, including the title of the document, and the page and paragraph numbers; where the reference is not sufficiently precise, Canada may request that the Bidder direct Canada to the appropriate location in the documentation.

In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders to demonstrate, at the sole cost of bidders, that the proposed product meets all mandatory criteria that are specified in the bid solicitation.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

3.1.4 Electronic Payment of Invoices - Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "C" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "C" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.5 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation.

4.1.1.1 Mandatory Technical Criteria

Each bid will be reviewed to determine whether it meets the mandatory requirements of the bid solicitation. Any element of the bid solicitation identified with the words “must” or “mandatory” is a mandatory requirement. Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

A complete list of minimum mandatory performance specifications are detailed below in the “Form B: Substantiation of Technical Compliance Form”. Bidders are to clearly demonstrate compliance with each mandatory specification.

- a. Bidders **must** show compliance by addressing each performance specification in the Substantiation of Technical Compliance Form, whether the product offered “meets” or “doesn’t meet”.
 - b. Bidders are requested to indicate how they meet each performance specification by recording this information under the Performance Specification Offered column in the Substantiation of Technical Compliance Form.
 - c. It is requested that supporting technical documentation, including but not limited to, specification sheets, technical brochures, photographs or illustrations be provided with the bid at solicitation close and be cross-referenced on the Substantiation of Technical Compliance Form for each performance specification to outline where in the supporting technical documentation it demonstrates compliance. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to prove that the proposed product(s) meet the requirements of the Performance Specification. If published supporting technical document is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.
4. If the supporting documentation referenced above has not been provided at bid closing, the Contracting Authority will notify the Bidder that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the bid non-responsive and the bid will be given no further consideration.

The mandatory technical requirements are described in Annex A.

4.1.2 Financial Evaluation

Evaluation of Price – Bid

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

For evaluation purposes, the Total Bid Price using the pricing tables completed by the bidders will be calculated as follows:

Initial Order:

Bidders must quote a firm unit pricing. FOB destination inclusive of all delivery charges, Unit pricing must include all customs duties and sales taxes extra.

Optional Goods:

Bidders must quote firm unit prices for the optional goods, FOB destination inclusive of all delivery and unloading charges, detailed in Annex B.

Blank Prices: Bidders are requested to insert "\$0.00" for any item for which it does not intend to charge or for items that are already included in other prices set out in the tables. If the Bidder leaves any price blank, Canada will treat the price as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No bidder will be permitted to add or change a price as part of this confirmation. Any bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Criteria

SACC Manual Clause A0031 (2010-08-16), Basis of Selection – Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

Solicitation No. - N° de l'invitation
T7061-190010/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
VAN531

Client Ref. No. - N° de réf. du client
T7061-190010

File No. - N° du dossier
VAN-9-42178

CCC No./N° CCC - FMS No./N° VME

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex A.

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

[2010A](#) (2018-06-21), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.2 Optional Good and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex B of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

6.4 Term of Contract

6.4.1 Delivery

6.4.1.1 Delivery Date (Initial Order)

All the deliverables must be received on or before **March 31, 2021**.

6.4.1.2 Complete Delivery (Optional Goods)

The Contractor must make the complete delivery within _____ calendar days from the effective date of the Contract (date of order).

6.4.1.3 Shipping Instructions – Free on Board Destination

Goods must be consigned and delivered to the destination specified in the contract:

FOB Destination,

Transport Canada
Sandspit Airport
1 Airport Road
Sandspit, BC V0T 1T0

including all delivery charges and customs duties and Applicable Taxes. Sales Taxes are extra.

6.4.2 Delivery and Unloading

SACC Manual clause D0018C (2007-11-30) Delivery and Unloading

6.5 Authorities

6.5.1 Contracting Authority

Solicitation No. - N° de l'invitation
T7061-190010/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
VAN531

Client Ref. No. - N° de réf. du client
T7061-190010

File No. - N° du dossier
VAN-9-42178

CCC No./N° CCC - FMS No./N° VME

The Contracting Authority for the Contract is:

Goretti Mak, Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Room 219 - 800 Burrard Street,
Vancouver, B.C. V6Z 0B9

Telephone: 604-363-0582 Facsimile: 604-353-0582
E-mail address: Goretti.Mak@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Technical Authority

The Technical Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: ____-____-____ Facsimile: ____-____-____
E-mail: _____

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

6.5.3 Contractor's Representative

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: ____-____-____ Facsimile: ____-____-____
E-mail: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex B for a cost of \$_____ (insert the amount at contract award). Customs duties are included and Applicable Taxes are extra.

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

6.6.2 Limitation of Price

SACC Manual clause C6000C (2017-08-17) Limitation of Price

6.6.3 Method of Payment

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

6.6.4 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. (Insert the name of the province or territory as specified by the Bidder in its bid, if applicable)

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2018-06-21) General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ (insert date of bid) (If the bid was clarified or amended, insert at the time of contract award: “, as clarified on _____” or “, as amended on _____” and insert date(s) of clarification(s) or amendment(s))

6.11 SACC Manual Clauses

SACC Manual clause B1501C (2018-06-21) Electrical Equipment

SACC Manual clause B7500C (2016-06-16) Excess Goods

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6.12 Warranty – Contractor responsible for all costs

Section 09 entitled Warranty of general conditions 2010A is amended by deleting subsection 2 in its entirety and replacing it with the following:

The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

All other provisions of the warranty section remain in effect.

ANNEX "A"

REQUIREMENT

To supply and delivery a towed away sweeper with a tow bar and other necessary accessories customarily furnished and installed on this type of unit whether specified herein or not, to function reliably and efficiently under all conditions of service for Transport Canada, Sandspit Airport in B.C.

1. SCOPE

1.1 Supply Transport Canada, Sandspit Airport, with one (1) **NEW** towed runway sweeper with a tow bar as indicated in the request for proposal (RFP).

All requirements, standards and conditions stated in items 2 through 6 shall be met.

2. GENERAL REQUIREMENTS

2.1 Standard Requirements - 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 commercial trade and shall have been proven in service for the application specified, for at least 1 year prior to the request for proposal.

2.2 Overview - The sweeper supplied under this specification shall be a towed runway sweeper, medium duty, capable of operating at 40 km/h.

The unit shall be equipped with a minimum 4,2 m (13,75 ft) wide horizontal rotating broom, an engine of a minimum of 204 KW (265 HP) continuous rating and an air blower of a minimum output capacity of 20 000 fl/min.

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. The tractor(s) supplied must be complete with all accessories customarily furnished and installed on this type of unit, whether specified herein or not.

2.3 **Operating Conditions** - The sweeper must be new and ready for operation when delivered to destinations specified in 1.0.

No failure of components shall occur when being continuously operated for a 24 hours period, at a speed of 40 km/h, at the maximum specified HP, with a broom pattern setting of 10 to 15 cm (4 to 6 in.)

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 10 to 15 cm (4 to 6 in.).

2.4 **Mandatory Item** - Items noted in the specification as "shall, must, to be, must, minimum, and maximum are mandatory requirements". No deviations will be accepted for these items.

In the case of a requisition involving more than one unit the singular application implies all other units, except when otherwise specified.

2.5 **Response** - Any responses noted as « approximately » will be interpreted as "ACTUAL". Any non-completed areas will be interpreted as non-compliant.

3.0 REGULATIONS AND STANDARDS

All standards and specifications referenced herein refer to the latest editions.

4.0 DELIVERY INSTRUCTIONS:

4.1 Pre Delivery

A pre-delivery service shall be completed by the sweeper manufacturer at time of delivery at the final destination.

The unit is to be lubricated and serviced with all associated Esso* products suitable for the climatic conditions in the area where the unit will operate.

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(*Only Esso products are available in Sandspit)

4.2 Delivery - At Sandspit Airport as per eventual agreement with Transport Canada.

4.3 Documentation - All necessary documentation shall be provided to the consignee when the unit is delivered.

4.4 Inspection - The 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.

Transport Canada has the right to inspect each unit at any stage of production and have all deviations, from the specification, corrected upon request.

A final inspection shall be completed by the consignee at time of delivery.

5.0 WARRANTY AND MANUALS

5.1.1 Manuals – Each towed runway sweeper shall be delivered with an English version of each of the operator and maintenance manuals. The maintenance manuals must indicate the proper maintenance procedure for all component installations. The manuals must include assembly drawings of all components.

5.1.2 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.

5.1.3 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.

5.1.4 If available, provide a minimum 20 minute training video, in English, showing the proper operations and preventive maintenance procedures.

5.2 Warranty period – Provide an unconditional warranty on all major components (engine, axles, gear boxes, differentials, air blower, clutch assemblies (except nonnal wear), broom drive system, and repair labor for a minimum of 2 000 hrs or 24 months, from the date the sweeper is delivered at Sandspit Airport.

Provide parts and labor warranty for a minimum of 18 months or 1 000 hrs, from the date the unit is initiated into service, on all the non-major components of the sweeper.

5.3 Warranty claims – If requested warranty repairs have not commenced within a 48 hour period following notification, Transport Canada reserves the right to complete repairs and bill the supplier for the repair parts and labor in accordance with their standard repair time and rate.

5.4 Dealer - 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. The supplier shall provide an estimate of the repair time within 24 hours of the repair request. So long as the warranty remains applicable, the supplier shall perform standard repairs and maintenance at the delivery site or assume the cost of moving the sweeper himself/herself (towing, insurance, meals, accommodations, salary, as the case may be, etc) if it cannot be repaired on site. Note that the facilities at Sandspit Airport include a heavy equipment maintenance garage where mechanics can obtain the standard tools of their trade (lifts, jacks, pneumatic and hydraulic equipment, etc). On occasions where moving the sweeper, the sweeper shall be transported on a platform.

5.4 Repair Depot - responsible for performing any required warranty repairs.

REPAIR DEPOT

ADDRESS: _____

CONTACT NAME: _____

Phone Number: _____

6.0 Sweeper Specifications

6.1 General Specifications

6.1.1 Each unit must be a towed type runway sweeper with a tow bar.

6.1.2 **The unit must be either mechanically driven by use of drive shaft and chains or hydraulic driven.** Fluid drive or other type of drive will not be accepted.

6.1.3 All bushings, pivot points, and any moving parts subject to wear shall be sealed against ingress of dirt and moisture and fitted with a means of lubrication.

6.1.4 The sweeper must be towed in line with the truck. There must not be any side load on any of the tires.

6.1.5 The maximum allowable sweeper weight is 7272 kg (16,000lbs)

6.1.6 The unit must be designed to operate in ambient conditions from minus 40 degrees to + 40 degrees Celsius.

6.1.7 The unit must be capable of operating on concrete and asphalt surfaces at full rated capacities.

6.1.8 The sweeper must be capable of completing a turn in a 20m (65 ft) diameter clearance circle.

6.1.9 The unit must be capable of operating a minimum of 24 hours without adjustment and lubrication.

6.2 Performance

6.2.1 The sweeper must be capable of operating without broom bounce or wheel shimmy up to 40 km/h at a 10 to 15 cm (4 to 6 in) pattern.

6.2.2 The broom speed must be between 525 and 650 RPM .

6.2.3 The broom must have a minimum width of 4,2 m (13,75 ft) wide.

6.2.4 The sweeping angle must be a minimum of 30 degrees right to 30 degrees left of the transverse position.

6.2.5 The sweeper must be capable of removing a minimum of 80% of the slush and snow left by 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 travelling at 40 km/h, at a 10 to 15 cm (4 to 6 in) pattern.

6.2.6 The sweeper must be capable of sweeping deposits of dry sand, dust, water and other light debris from runway surfaces at full sweeping speed of 40 km/hr, at a 10 to 15 cm (4 to 6 in) pattern.

6.3 Dimensions

6.3.1 The maximum overall length, from tow eyes to rear of the sweeper, to be 11,8 m (39 ft).

6.3.2 The maximum overall width with all components installed to be 4,9 m (16 ft).

6.3.3 With a new broom installed there must be a minimum of to cm 4 in.) ground clearance with the broom in the raised (travelling) position.

6.3.4 The maximum overall height of all components to be 3 m (10 ft).

6.4 Engine

6.4.1 The engine must be a liquid cooled diesel in current production. **If required by design, engine must incorporate wet sleeve, replaceable cylinder liners."**

6.4.2 The engine must have a minimum of 204 KW (265 HP) continuous rating. Manufacturer's published literature or performance tests must be supplied indicating the HP and torque noted, including performance curve diagram of engine.

6.4.3 The minimum continuous engine torque rating to be 850 lb / ft .

6.4.4 The engine speed must be a maximum of 2 200 RPM. Maximum 1 800 RPM is preferred.

6.4.5 Provide a two stage, heavy-duty air cleaner .

6.4.6 Provide a coolant filter with replaceable element.

6.4.7 Provide an engine fuel filter/water separator, complete with a glass bowl, and a replaceable element.

6.4.8 Provide a thermostatically or **hydraulic** controlled fan clutch for the cooling system if not "Air to Air".

6.4.9 Provide silicon hoses with the appropriate spring type clamps .
6.4.10 Provide a severe duty, radiator.
6.4.11 Provide a minimum 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.
6.4.12 Provide a vertical exhaust complete with a muffler and must be terminated with an elbow or rain cap.
6.4.13 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, low hydraulic oil level and overheating of the differential gearing (axles).
6.5 FRAME
6.5.1 The sweeper shall be designed with a heavy duty welded frame.
6.5.2 The frame must be constructed from structural steel.
6.5.3 The cross section modulus (CSM) must be sufficient to prevent frame distortion.
6.6 TOW BAR
6.6.1 The sweeper must be equipped with a tow bar.
6.6.2 The tow bar must incorporate a 360° swivel castor idle wheel. The tire on the idle wheel must be identical to the sweeper's chassis tire.
6.6.3 The eye must be replaceable, of good quality and compatible with the pintle already installed in the towing unit at Sandspit Airport.
6.6.4 The tow bar must be equipped with a spring system to facilitate manual handling of the tow bar, as well as 2 safety chains with safety hooks.
6.6.5 The tow arm length is to be kept to a minimum while providing the maximum truck swing radius, without provoking accumulation of snow in the towing unit.
6.7 COWLING
6.7.1 Provide a durable enclosure, which protects the major components from the elements.
6.7.2 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.
6.7.3 The top of the cowling must either fold open or be easily removed to allow the engine to be easily removed from the sweeper.
6.7.4 Provide positive latching mechanism to secure the doors in the closed position .
6.7.5 Provide an easy positive mechanical means of holding the doors (and roof if folding type) open.
6.7.6 Provide a light (s) to illuminate the enclosure to allow work to be performed at night.
6.8 FUEL TANK
6.8.1 Provide a minimum 300 litres capacity fuel tank.
6.8.2 The filler must be on left for ease of fueling with our fueling situation as to not endanger the safety of the operator , with access from the back and inclined as such, to permit filling from behind the wheels.
6.8.3 The inscription "DIESEL FUEL ONLY" must be marked in minimum 50 mm (2 in) letters, near the filler.
6.9 ELECTRICAL SYSTEM

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6.9.1 The sweeper must be equipped with a 12 volt electrical and starting system.
6.9.2 Provide a minimum of three batteries of the "DELCO" Series 1110 or 1200 type or equivalent. The batteries must have a minimum of 1500 CCA. If the system utilizes only two batteries then they must have a minimum of 2000 CCA, 1500 CCA is only acceptable for a 3 battery system.
6.9.3 Provide a "DELCO" type 25 or 30 SI alternator or equivalent having a minimum of 85 amp output.
6.9.4 Provide a strobe light, amber, double flash, high and low intensity, 16J. The Target-Tech heavy duty model 1262, Phase II meets our requirements. Equivalent is accepted although no deviation will be accepted. The light is to be mounted as high as possible.
6.9.5 Provide a minimum of two spotlights capable of illuminating the broom and drive train.
6.9.6 Provide rear stop and three-way LED lamps. As for tail lamps, they shall be conventional position lamps. All shall be waterproof and shockproof.
6.9.7 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.
6.9.8 The wiring must be colour coded or marked every 6 inches with a permanent identification. Circuit identification markers must be attached to each end of the wire.

6.9.9 The engine is to be complete with a 12 volt starter.
6.9.10 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.
6.10 POWER TAKE OFF - CLUTCH
6.10.1 The power take off - clutch must be sized to the engine torque and horsepower.
6.10.2 The clutch is to be a heavy duty over-centre type mounted direct to the engine flywheel.
6.10.3 The power take off shall be certified by the manufacturer as being acceptable for the application.
6.10.4 The clutch engagement shall be installed outside of the unit and shall be completed by a manual mechanism insuring an easy and safe operation for the operator.
6.11 BROOM DRIVE
6.11.1 The broom must be mechanically driven or hydraulic driven, or an equivalent product/design with proven service in heavy wet snow conditions, that would have the same demonstrated reliability. Fluid drive sweepers will not be accepted.
6.11.2 The broom may be either mechanically or hydraulic driven from the end(s). Centre broom drives will not be accepted.
6.11.3 The chain drive must be complete with a means of maintaining proper chain tension. This required for mechanical systems, not applicable to hydraulic drive.
6.11.4 The chains sprockets and bearings must be mounted in an enclosed housing providing sufficient lubrication and protection from moisture and dust. This required for mechanical systems, not applicable to hydraulic drive.
6.11.5 The chain housings must be complete with easily removable covers allowing easy access to all drive components. This required for mechanical systems, not applicable to hydraulic drive.
6.11.6 The broom speed must be a minimum of 525 RPM and a maximum of 650 RPM. This required for mechanical systems, not applicable to hydraulic drive.
6.12 DIFFERENTIAL
6.12.1 The maximum capacity of the sweeper differential must be 105% of the maximum torque of the engine. This required for mechanical systems, not applicable to hydraulic drive.
6.12.2 The differential must be easy to disassemble. This required for mechanical systems, not applicable to hydraulic drive.
6.12.3 The differential bearings must be super heavy duty to withstand extreme loads and torque power. This required for mechanical systems, not applicable to hydraulic drive.
6.12.4 The differential bearings must be continuously lubricated. This required for mechanical systems, not applicable to hydraulic drive.
6.13 BROOM FRAME
6.13.1 The broom frame must be supported on two or more castor wheels. The castor wheels must swivel 360 degrees.
6.13.2 The castor wheels must be complete with a mechanical brake to prevent wheel shimmy up to 50 km/h.
6.13.3 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.
6.13.4 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.
6.13.5 The broom frame must be adjustable from 30 degrees right to 30 degrees left.
6.13.6 The broom stops shall be sufficiently designed to withstand the full dynamic loading of the broom hydraulic angling cylinders.
6.14 BROOM
6.14.1 The sweeper is to be complete with a minimum 4,2 m (13.75 ft) wide horizontal rotating broom .

6.14.2	The broom core is to be balanced.
6.14.3	The broom core is to be 273 mm (10,75 in.) diameter. No deviations will be accepted.
6.14.4	Provide a complete set of steel broom wafers. There must be a minimum of 120 Transport Canada approved broom wafers installed.
6.14.5	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.
6.14.6	The broom must have a minimum of 10 cm (4 in) ground clearance with new broom wafers installed.
6.14.7	The broom must be complete with a mechanical positive locking pattern adjuster.
6.14.8	The broom pattern adjuster must be located in a safe convenient location for the operator.
6.14.9	The pattern adjuster must be capable of setting any broom pattern from 25 mm (1 in) to 228 mm (9 in) at any stage of broom wear.
6.14.10	An additional spare broom core of the type specified above shall be supplied under this contract.
6.15 AIR BLOWER	
6.15.1	Provide a mechanically driven air blower to clean the residue left from the broom assembly. The blower shall be protected by an air deflector at the blower entrance.
6.15.2	The air blower is to have a minimum output capacity of 20 000 SCFM at the blower outlet.
6.15.3	The blower drive shall be protected by adequate shielding and guards to allow safe operation.
6.15.4	The sweeper must be equipped with an over-running clutch or equally effective disconnecting device to allow for the engine shut down shock.
6.15.5	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).
6.15.6	The air outlet velocity of each nozzle must be a minimum of 270 MPH .
6.15.7	The nozzles must be capable of being lowered to a minimum of 19.05 cm (7.5 in) , off the runway surface.
6.15.8	The nozzles must raise automatically to a minimum of 25 cm (10 inches) from the ground level when the broom is raised to transport position.
6.15.9	The nozzles must be equipped with a means of hydraulically rotating it to allow the sweeper to be used to clean the runway lights.
6.16 HYDRAULIC SYSTEM	
6.16.1	Provide a hydraulic pump which must be positive mechanical drive.
6.16.2	Provide a hydraulic tank which has a minimum capacity of 20 liters and a maximum capacity of 50 litres.
6.16.3	The hydraulic tank must be complete with a breather cap and a site level gauge.
6.16.4	The drive shaft is to be a minimum Spicer 1150 series, having needle roller bearing universal joints and a slip joint.
6.16.5	A hand pump must be installed to allow the broom to be raised in the event of a hydraulic pump failure.
6.16.6	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 .
6.16.7	The hydraulic fluid shall be of a type readily available locally eg. Dextron (only Esso products are available in Sandspit).
6.16.8	The hydraulics shall control the angling and the elevation of the broom and the air nozzle assemblies.
6.16.9	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.
6.16.10	All hydraulic lines shall be secured to the frame and shall be installed to prevent chaffing and damage during sweeper use.
6.17 AXLES	
6.17.1	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 in an oil bath.

6.17.2	The sweeper must be complete with a minimum of two wheels with brakes.
6.17.3	The brakes are to be air operated with the glad hands installed at a convenient location on the sweeper for connection to the truck.
6.18 WHEELS AND TIRES	
6.18.1	The tires and wheels weight rating must be a minimum of the axle rating.
6.18.2	All chassis tires must be tubeless radial ply type construction, winter tires.
6.18.3	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.
6.18.4	The maximum tire load shall be 500 lbs per inch of tread width.
6.18.5	During the normal operation of the sweeper there shall be no side load on the tires.
6.18.6	The castor wheels shall be designed to eliminate any wheel shimmy, while allowing enough free movement to always run parallel to the sweeper axis.
6.18.7	The castor wheels shall be designed to be easily removed and replaced.
6.19 INSTRUMENT PANEL	
6.19.1	Provide a lockable weatherproof instrument panel located on one side of the engine cowling.
6.19.2	The minimum gauges to be supplied are; voltmeter, oil pressure, coolant temperature, hour meter, and fuel gauge.
6.19.3	The instrument panel 2 doors (outside and inside) must open towards the sweeper front for a safety purpose.
6.19.4	All gauges are to be dust, moisture, and shock proof. All gauges are to include lights for night operation.
6.19.5	The minimum switches to be supplied are: engine stop and start, engine speed control, and flood light switch.
6.19.6	The control panel is to include lights for night operation .
6.19.7	A warning light, indicating the automatic engine shutdown system has engaged, must be provided.
6.20 REMOTE CONTROL	
6.20.1	Provide a remote box to allow the sweeper to be operated from the cab of the truck and a portable remote control unit.
6.20.2	The minimum gauges and controls to be supplied are tachometer, coolant temperature, engine speed control, engine emergency stop, and angle and elevation controls for the broom and air nozzle(s).
6.20.3	The wiring (cable) for the remote box is to be complete with 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 tow eye.
6.20.4	The cable is to be at least 7 ,6 m (25 feet) long, weather proof, ultraviolet resistant and is to be designed for the purpose intended.
6.21.1	The primer shall be epoxy based of good quality. The exterior paint shall be polyurethane GLASS SHIELD, GLASS GUARD, serial 2800, colour standard DOT equipment orange or equivalent. If the paint is not factory installed, a minimum two year warranty is to be provided.
6.21 INSTURCTIONAL IDENTIFICATION	
6.21.1	Provide permanently installed ISO or written instructions, diagrams and warning plates, where required to ensure efficient operation and servicing with maximum safety.

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ANNEX "B"

BASIS OF PAYMENT

Prices quoted to be Firm Lot Price, FOB Destination, including all delivery and offloading charges in accordance with the Requirement at Annex A. Customs duties are included and Applicable Taxes are extra. GST/HST is to be shown as a separate item on any resulting invoice.

Table B1 – Initial Order

Item	Description	Qty	Firm Unit Price	Extended total
B1.1	Airport Runway Sweeper Make and Model _____	1	\$	\$
B1.2	Delivery, including all freight and offloading charges FOB – Sandspit Airport, BC	Lot	\$	\$
	Total B1			\$

Table B2 – Optional Goods

Price are FOB Destination inclusive of all customs duties and sales taxes are extra.

Item	Description	Firm Unit Price
B2.1	Mounted Tire and Wheel for each size on unit	\$
B2.2	2 Full sets of Service Filters	\$
B2.3	2 Sets of Spare Male/Female connectors for control box cable	\$

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ANNEX "C" to Part 3 of the Bid Solicitation

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- ☐ () VISA Acquisition Card;
- ☐ () MasterCard Acquisition Card;
- ☐ () Direct Deposit (Domestic and International);
- ☐ () Electronic Data Interchange (EDI);
- ☐ () Wire Transfer (International Only);
- ☐ () Large Value Transfer System (LVTS) (Over \$25M)

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FORM A – Bid Submission Form

BID SUBMISSION FORM		
Bidder's full legal name		
Authorized Representative of Bidder for evaluation purposes (e.g., clarifications)	Name	
	Title	
	Address	
	Telephone #	
	Fax #	
	Email	
Bidder's Procurement Business Number (PBN) <i>[see the Standard Instructions 2003]</i>		
Jurisdiction of Contract: Province in Canada the bidder wishes to be the legal jurisdiction applicable to any resulting contract (if other than as specified in solicitation)		
Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder . Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s). Bidders bidding as societies, firms, or partnerships do not need to provide lists of names.		
<p>On behalf of the Bidder, by signing below, I confirm that I have read the entire bid solicitation including the documents incorporated by reference into the bid solicitation and I certify that:</p> <ol style="list-style-type: none">1. The Bidder considers itself and its products able to meet all the mandatory requirements described in the bid solicitation;2. This bid is valid for the period requested in the bid solicitation;3. All the information provided in the bid is complete, true and accurate; and4. If the Bidder is awarded a contract, it will accept all the terms and conditions set out in the resulting contract clauses included in the bid solicitation.		
Signature of Authorized Representative of Bidder		Date

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FORM B: Substantiation of Technical Compliance Form

1. Bidders must identify compliance to all the mandatory specifications identified in the Form below.
2. Bidders must provide information and technical documentation as identified in the right column of the form below.
3. Bidders responses note as "approximately" will be interpreted as "ACTUAL".

Requirement	Manufacturer Offered	Model Number Offered

Mandatory Specification	Comply		Information required in your Technical Proposal
	Yes	No	
			<p>Bidders are requested to indicate how they meet each the specification by recording this in this Substantiation of Technical Compliance Form.</p> <p>The substantiation must not simply be a repetition of the requirement(s), but must explain and demonstrate how the Bidder will meet the requirements and carry out the required Work. Simply stating that the Bidder or its proposed solution or product complies is not sufficient.</p> <p>Published literature should be included in your bid to indicate the actual capacities of the equipment being offered. If published supporting technical document is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.</p>
1. SCOPE			
1.1 Supply Transport Canada, Sandspit Airport, with one (1) NEW towed runway sweeper with a tow bar as indicated in the request for proposal (RFP).			

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All requirements, standards and conditions stated in items 2 through 6 shall be met.			
3. GENERAL REQUIREMENTS			
2.1 Standard Requirements - 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 commercial trade and shall have been proven in service for the application specified, for at least 1 year prior to the request for proposal.			
2.2 Overview - The sweeper supplied under this specification shall be a towed runway sweeper, medium duty, capable of operating at 40 km/h. The unit shall be equipped with a minimum 4,2 m (13,75 ft) wide horizontal rotating broom, an engine of a minimum of 204 KW (265 HP) continuous rating and an air blower of a minimum output capacity of 20 000 fl/ min.			

Mandatory Specification	Information required in your Technical Proposal	
	Comply	Yes No
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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. The tractor(s) supplied must be complete with all accessories customarily furnished and installed on this type of unit, whether specified herein or not.		
2.3 Operating Conditions - The sweeper must be new and ready for operation when delivered to destinations specified in 1.0. No failure of components shall occur when being continuously operated for a 24 hours period, at a speed of 40 km/h, at the maximum specified HP, with a broom pattern setting of 10 to 15 cm (4 to 6 in.) 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 10 to 15 cm (4 to 6 in.)		Published literature must be included in your bid to indicate the actual capacities of the equipment being offered.
2.6 Mandatory Item - Items noted in the specification as "shall, must, to be, must, minimum, and maximum are mandatory		

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requirements". No deviations will be accepted for these items.		
In the case of a requisition involving more than one unit the singular application implies all other units, except when otherwise specified.		
2.7 Response - Any responses noted as« approximately» will be interpreted as "ACTUAL". Any non-completed areas will be interpreted as non-compliant.		
3.0 REGULATIONS AND STANDARDS		
All standards and specifications referenced herein refer to the latest editions.		
4.0 DELIVERY INSTRUCTIONS:		
4.1 Pre Delivery		
A pre-delivery service shall be completed by the sweeper manufacturer at time of delivery at the final destination.		
The unit is to be lubricated and serviced with all associated Esso* products suitable for the climatic conditions in the area		

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where the unit will operate.			
(*Only Esso products are available in Sandspit)			
			Bidder must provide the "local" PDI dealer's name and address: Name: _____ Address: _____
4.5 Delivery - At Sandspit Airport as per eventual agreement with Transport Canada.			
4.6 Documentation - All necessary documentation shall be provided to the consignee when the unit is delivered.			
4.7 Inspection - The 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.			

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Transport Canada has the right to inspect each unit at any stage of production and have all deviations, from the specification, corrected upon request.		
A final inspection shall be completed by the consignee at time of delivery.		
5.0 WARRANTY AND MANUALS		
5.1.1 Manuals – Each towed runway sweeper shall be delivered with an English version of each of the operator and maintenance manuals. The maintenance manuals must indicate the proper maintenance procedure for all component installations. The manuals must include assembly drawings of all components.		
5.1.2 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.		
5.1.3 Each towed runway sweeper shall be delivered with an English version of the maintenance and parts manuals of the		

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respective manufacturer (OEM), for each of the major components installed in the sweeper.			
5.1.4 If available, provide a minimum 20 minute training video, in English, showing the proper operations and preventive maintenance procedures.			
5.2 <u>Warranty period</u> – Provide an unconditional warranty on all major components (engine, axles, gear boxes, differentials, air blower, clutch assemblies (except nonnal wear), broom drive system, and repair labor for a minimum of 2 000 hrs or 24 months, from the date the sweeper is delivered at Sandspit Airport.			WARRANTY PERIOD OFFERED
Provide parts and labor warranty for a minimum of 18 months or 1 000 hrs, from the date the unit is initiated into service, on all the non-major components of the sweeper.			
5.3 <u>Warranty claims</u> – If requested warranty repairs have not commenced within a 48 hour period following notification, Transport Canada reserves the right to complete repairs and bill the supplier for the repair parts and labor in accordance with their			

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standard repair time and rate.			
5.4 Dealer - 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. The supplier shall provide an estimate of the repair time within 24 hours of the repair request. So long as the warranty remains applicable, the supplier shall perform standard repairs and maintenance at the delivery site or assume the cost of moving the sweeper himself/herself (towing, insurance, meals, accommodations, salary, as the case may be, etc) if it cannot be repaired on site. Note that the facilities at Sandspit Airport include a heavy equipment maintenance garage where mechanics can obtain the standard tools of their trade (lifts, jacks, pneumatic and hydraulic equipment, etc). On occasions where moving the sweeper, the sweeper shall be transported on a platform.			
5.4 Repair Depot - responsible for performing any required warranty repairs.			Bidder must provide the name and phone number of the person to be contacted should warranty repairs be required.

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REPAIR DEPOT			REPAIR DEPOT
ADDRESS: _____ _____ _____			ADDRESS: _____ _____ _____
CONTACT NAME: _____			CONTACT NAME: _____
Phone Number: _____			Phone Number: _____
6.0 Sweeper Specifications		Bidders must provide technical documentation to substantiate compliance to all the mandatory specification in Section 6.0	
6.1 General Specifications			

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6.1.1 Each unit must be a towed type runway sweeper with a tow bar.			
6.1.2 The unit must be either mechanically driven by use of drive shaft and chains or hydraulic driven. Fluid drive or other type of drive will not be accepted.			
6.1.3 All bushings, pivot points, and any moving parts subject to wear shall be sealed against ingress of dirt and moisture and fitted with a means of lubrication.			
6.1.4 The sweeper must be towed in line with the truck. There must not be any side load on any of the tires.			
6.1.5 The maximum allowable sweeper weight is 7272 kg (1,600lbs)			Actual _____ kg (lbs)
6.1.6 The unit must be designed to operate in ambient conditions from minus 40 degrees to + 40 degrees Celsius.			Actual _____ Celsius
6.1.7 The unit must be capable of operating on concrete and asphalt surfaces at full rated capacities.			
6.1.8 The sweeper must be capable of completing a turn in a 20m (65 ft) diameter clearance circle.			Actual Operating weight _____ kg or lbs

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6.1.9 The unit must be capable of operating a minimum of 24 hours without adjustment and lubrication.			Actual _____ hours
6.2 Performance			
6.2.1 The sweeper must be capable of operating without broom bounce or wheel shimmy up to 40 km/h at a 10 to 15 cm (4 to 6 in) pattern.			Actual _____
6.2.2 The broom speed must be between 525 and 650 RPM .			Actual _____ RPM
6.2.3 The broom must have a minimum width of 4,2 m (13,75 ft) wide.	—	—	Actual _____ width (M / ft)
6.2.4 The sweeping angle must be a minimum of 30 degrees right to 30 degrees left of the transverse position.	—	—	Actual _____ degrees
6.2.5 The sweeper must be capable of removing a minimum of 80% of the slush and snow left by 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 travelling at 40 km/h, at a 10 to 15 cm (4 to 6 in) pattern.	—	—	Actual _____
6.2.6 The sweeper must be capable of sweeping deposits of dry sand, dust, water and other light debris from runway surfaces at full sweeping speed of 40 km/hr, at a 10 to 15 cm (4 to 6 in)	—	—	Actual speed _____

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noted, including performance curve diagram of engine.			
6.4.3 The minimum continuous engine torque rating to be 850 lb / ft .			Actual _____
6.4.4 The engine speed must be a maximum of 2 200 RPM. Maximum 1 800 RPM is preferred.			Actual _____
6.4.5 Provide a two stage, heavy-duty air cleaner .			
6.4.6 Provide a coolant filter with replaceable element.			
6.4.7 Provide an engine fuel filter/water separator, complete with a glass bowl, and a replaceable element.			
6.4.8 Provide a thermostatically or hydraulic controlled fan clutch for the cooling system if not "Air to Air".			
6.4.9 Provide silicon hoses with the appropriate spring type clamps .			
6.4.10 Provide a severe duty, radiator.			
6.4.11 Provide a minimum 1 . 500 watt electric coolant heater. The heater is to be complete with a conveniently located exterior			Actual _____

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plug and a minimum 4,6 m (15 ft) removable cord.		
6.4.12 Provide a vertical exhaust complete with a muffler and must be terminated with an elbow or rain cap.		
6.4.13 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, low hydraulic oil level and overheating of the differential gearing (axles).		
6.5 FRAME		
6.5.1 The sweeper shall be designed with a heavy duty welded frame .		
6.5.2 The frame must be constructed from structural steel.		
6.5.3 The cross section modulus (CSM) must be sufficient to prevent frame distortion.		
6.6 TOW BAR		
6.6.1 The sweeper must be equipped with a tow bar.		
6.6.2 The tow bar must incorporate a 360° swivel castor idle wheel. The tire on the idle wheel must be identical to the sweeper's chassis tire.		

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6.6.3 The eye must be replaceable, of good quality and compatible with the pintle already installed in the towing unit at Sandspit Airport.			
6.6.4 The tow bar must be equipped with a spring system to facilitate manual handling of the tow bar, as well as 2 safety chains with safety hooks.			
6.6.5 The tow arm length is to be kept to a minimum while providing the maximum truck swing radius, without provoking accumulation of snow in the towing unit.			
6.7 COWLING			
6.7.1 Provide a durable enclosure, which protects the major components from the elements.			
6.7.2 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.			
6.7.3 The top of the cowling must either fold open or be easily removed to allow the engine to be easily removed from the sweeper.			

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6.7.4 Provide positive latching mechanism to secure the doors in the closed position .			
6.7.5 Provide an easy positive mechanical means of holding the doors (and roof if folding type) open.			
6.7.6 Provide a light (s) to illuminate the enclosure to allow work to be performed at night.			
6.8 FUEL TANK			
6.8.1 Provide a minimum 300 litres capacity fuel tank.			Actual _____
6.8.2 The filler must be on left for ease of fueling with our fueling situation as to not endanger the safety of the operator , with access from the back and inclined as such, to permit filling from behind the wheels.			
6.8.3 The inscription "DIESEL FUEL ONLY" must be marked in minimum 50 mm (2 in) letters, near the filler.			
6.9 ELECTRICAL SYSTEM			

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6.9.1 The sweeper must be equipped with a 12 volt electrical and starting system.			Actual _____
6.9.2 Provide a minimum of three batteries of the "DELCO" Series 1110 or 1200 type or equivalent. The batteries must have a minimum of 1500 CCA. If the system utilizes only two batteries then they must have a minimum of 2000 CCA, 1500 CCA is only acceptable for a 3 battery system.			Actual _____
6.9.3 Provide a "DELCO" type 25 or 30 SI alternator or equivalent having a minimum of 85 amp output.			Actual _____ amp
6.9.4 Provide a strobe light, amber, double flash, high and low intensity, 16J. The Target-Tech heavy duty model 1262, Phase II meets our requirements. Equivalent is accepted although no deviation will be accepted. The light is to be mounted as high as possible.			
6.9.5 Provide a minimum of two spotlights capable of illuminating the broom and drive train.			
6.9.6 Provide rear stop and three-way LED lamps. As for tail lamps, they shall be conventional position lamps. All shall be			

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waterproof and shockproof.		
6.9.7 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.		
6.9.8 The wiring must be colour coded or marked every 6 inches with a permanent identification. Circuit identification markers must be attached to each end of the wire.		
6.9.9 The engine is to be complete with a 12 volt starter.		
6.9.10 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.		
6.10 POWER TAKE OFF - CLUTCH		

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6.10.1 The power take off - clutch must be sized to the engine torque and horsepower.			Actual _____
6.10.2 The clutch is to be a heavy duty over-centre type mounted direct to the engine flywheel.			
6.10.3 The power take off shall be certified by the manufacturer as being acceptable for the application.			
6.10.4 The clutch engagement shall be installed outside of the unit and shall be completed by a manual mechanism insuring an easy and safe operation for the operator.			
6.11 BROOM DRIVE			

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6.11.1 The broom must be mechanically driven or hydraulic driven, or an equivalent product/design with proven service in heavy wet snow conditions, that would have the same demonstrated reliability. Fluid drive sweepers will not be accepted.			
6.11.2 The broom may be either mechanically or hydraulic driven from the end(s). Centre broom drives will not be accepted.			
6.11.3 The chain drive must be complete with a means of maintaining proper chain tension. This required for mechanical systems, not applicable to hydraulic drive.			
6.11.4 The chains sprockets and bearings must be mounted in an enclosed housing providing sufficient lubrication and protection from moisture and dust. This required for mechanical systems, not applicable to hydraulic drive.			
6.11.5 The chain housings must be complete with easily removable covers allowing easy access to all drive components. This required for mechanical systems, not applicable to			

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hydraulic drive.		
6.11.6 The broom speed must be a minimum of 525 RPM and a maximum of 650 RPM. This required for mechanical systems, not applicable to hydraulic drive.		
6.1.2 DIFFERENTIAL		

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6.12.1 The maximum capacity of the sweeper differential must be 105% of the maximum torque of the engine. This required for mechanical systems, not applicable to hydraulic drive.			
6.12.2 The differential must be easy to disassemble. This required for mechanical systems, not applicable to hydraulic drive.			
6.12.3 The differential bearings must be super heavy duty to withstand extreme loads and torque power. This required for mechanical systems, not applicable to hydraulic drive.			
6.12.4 The differential bearings must be continuously lubricated. This required for mechanical systems, not applicable to hydraulic drive.			
6.13 BROOM FRAME			

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6.13.1 The broom frame must be supported on two or more castor wheels. The castor wheels must swivel 360 degrees .			
6.13.2 The castor wheels must be complete with a mechanical brake to prevent wheel shimmy up to 50 km/h .			
6.13.3 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.			
6.13.4 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.			
6.13.5 The broom frame must be adjustable from 30 degrees right to 30 degrees left.			
6.13.6 The broom stops shall be sufficiently designed to withstand the full dynamic loading of the broom hydraulic angling cylinders.			
6.14 BROOM			

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6.14.1 The sweeper is to be complete with a minimum 4,2 m (13.75 ft) wide horizontal rotating broom .			
6.14.2 The broom core is to be balanced.			
6.14.3 The broom core is to be 273 mm (10,75 in.) diameter. No deviations will be accepted.			
6.14.4 Provide a complete set of steel broom wafers. There must be a minimum of 120 Transport Canada approved broom wafers installed.			
6.14.5 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.			
6.14.6 The broom must have a minimum of 10 cm (4 in) ground clearance with new broom wafers installed.			
6.14.7 The broom must be complete with a mechanical positive locking pattern adjuster.			
6.14.8 The broom pattern adjuster must be located in a safe convenient location for the operator.			
6.14.9 The pattern adjuster must be capable of setting any			

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broom pattern from 25 mm (1 in) to 228 mm (9 in) at any stage of broom wear.		
6.14.10 An additional spare broom core of the type specified above shall be supplied under this contract.		
6.15 AIR BLOWER		
6.15.1 Provide a mechanically driven air blower to clean the residue left from the broom assembly. The blower shall be protected by an air deflector at the blower entrance.		
6.15.2 The air blower is to have a minimum output capacity of 20 000 SCFM at the blower outlet.		
6.15.3 The blower drive shall be protected by adequate shielding and guards to allow safe operation.		
6.15.4 The sweeper must be equipped with an over-running clutch or equally effective disconnecting device to allow for the engine shut down shock.		
6.15.5 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).		

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6.15.6 The air outlet velocity of each nozzle must be a minimum of 270 MPH .			Actual _____
6.15.7 The nozzles must be capable of being lowered to a minimum of 19.05 cm (7.5 in) , off the runway surface.			Actual _____
6.15.8 The nozzles must raise automatically to a minimum of 25 cm (10 inches) from the ground level when the broom is raised to transport position.			Actual _____
6.15.9 The nozzles must be equipped with a means of hydraulically rotating it to allow the sweeper to be used to clean the runway lights.			
6.16 HYDRAULIC SYSTEM			
6.16.1 Provide a hydraulic pump which must be positive mechanical drive.			
6.16.2 Provide a hydraulic tank which has a minimum capacity of 20 litres and a maximum capacity of 50 litres.			Actual _____
6.16.3 The hydraulic tank must be complete with a breather cap and a site level gauge.			
6.16.4 The drive shaft is to be a minimum Spicer 1150 series,			Actual _____

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having needle roller bearing universal joints and a slip joint.			
6.16.5 A hand pump must be installed to allow the broom to be raised in the event of a hydraulic pump failure.			
6.16.6 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 .			
6.16.7 The hydraulic fluid shall be of a type readily available locally eg. Dextron (only Esso products are available in Sandspit).			
6.16.8 The hydraulics shall control the angling and the elevation of the broom and the air nozzle assemblies.			
6.16.9 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.			
6.16.10 All hydraulic lines shall be secured to the frame and shall be installed to prevent chaffing and damage during			

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sweeper use.			
6.17 AXLES			
6.17.1 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 in an oil bath.			
6.17.2 The sweeper must be complete with a minimum of two wheels with brakes.			
6.17.3 The brakes are to be air operated with the glad hands installed at a convenient location on the sweeper for connection to the truck.			
6.18 WHEELS AND TIRES			
6.18.1 he tires and wheels weight rating must be a minimum of the axle rating.			
6.18.2 All chassis tires must be tubeless radial ply type construction, winter tires.			
6.18.3 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.			

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6.18.4 The maximum tire load shall be 500 lbs per inch of tread width.			Actual _____
6.18.5 During the normal operation of the sweeper there shall be no side load on the tires.			
6.18.6 The castor wheels shall be designed to eliminate any wheel shimmy, while allowing enough free movement to always run parallel to the sweeper axis.			
6.18.7 The castor wheels shall be designed to be easily removed and replaced.			
6.19 INSTRUMENT PANEL			
6.19.1 Provide a lockable weatherproof instrument panel located on one side of the engine cowl.			
6.19.2 The minimum gauges to be supplied are; voltmeter, oil pressure, coolant temperature, hour meter, and fuel gauge.			
6.19.3 The instrument panel 2 doors (outside and inside) must open towards the sweeper front for a safety purpose.			
6.19.4 All gauges are to be dust, moisture, and shock proof. All gauges are to include lights for night operation.			

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6.19.5 The minimum switches to be supplied are: engine stop and start, engine speed control, and flood light switch.			
6.19.6 The control panel is to include lights for night operation .			
6.19.7 A warning light, indicating the automatic engine shutdown system has engaged, must be provided.			
6.20 REMOTE CONTROL			
6.20.1 Provide a remote box to allow the sweeper to be operated from the cab of the truck and a portable remote control unit.			
6.20.2 The minimum gauges and controls to be supplied are tachometer, coolant temperature, engine speed control, engine emergency stop, and angle and elevation controls for the broom and air nozzle(s).			
6.20.3 The wiring (cable) for the remote box is to be complete with 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 tow eye.			
6.20.4 The cable is to be at least 7 ,6 m (25 feet) long, weather			

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