

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving - PWGSC / Réception des
soumissions - TPSGC
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0A1 / Noyau 0A1
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

**Proposal To: Public Works and Government
Services Canada**

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

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

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

Comments - Commentaires

Title - Sujet Sweeper, Street, Truck Mounted	
Solicitation No. - N° de l'invitation W8476-144816/A	Date 2013-09-24
Client Reference No. - N° de référence du client W8476-144816	
GETS Reference No. - N° de référence de SEAG PW-\$\$HS-604-63551	
File No. - N° de dossier hs604.W8476-144816	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-11-05	Time Zone Fuseau horaire Eastern Standard Time EST
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: Bertrand(hs604), Alain	Buyer Id - Id de l'acheteur hs604
Telephone No. - N° de téléphone (819) 956-4025 ()	FAX No. - N° de FAX (819) 956-5227
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Industrial Vehicles & Machinery Products Division
11 Laurier St./11, rue Laurier
7B1, Place du Portage, Phase III
Gatineau
Québec
K1A 0S5

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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PART 1 - GENERAL INFORMATION

1. Introduction

The bid solicitation and resulting contract document is divided into seven (7) parts plus annexes as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation and states that the Bidder agrees to be bound by the clauses and conditions contained in all parts of the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Other Requirements includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The attachments include the Annex A - Pricing, Annex B - Federal Contractors Program for Employment Equity - Certification, the purchase description, the technical information questionnaire.

2. Summary

The Department of National Defence has a requirement to purchase four (4) sweeper, street, truck mounted and ancillary items, (including familiarization instruction/training), in accordance with the Purchase Description Sweeper, Street, Truck Mounted, 2.4 metre Sweeping Path, Vacuum Pick-up dated 10 July 2013, and as described at Annex A - Pricing.

The requirement includes an option to purchase up to two (2) sweeper, street, truck mounted and ancillary items to be exercised within twelve (12) months from the effective date of the contract.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement, the North American Free Trade Agreement, the Canada-Columbia

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Free Trade Agreement, the Canada-Peru Free Trade Agreement, the Canada-Panama Free Trade Agreement and the Agreement on Internal Trade.

3. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual issued by Public Works and Government Services Canada (PWGSC).

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

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 05.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: Bids will remain open for acceptance for a period of not less than sixty (60) days from the closing date of the bid solicitation

Insert: Bids will remain open for acceptance for a period of not less than ninety (90) calendar days from the closing date of the bid solicitation

2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

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

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.

5. Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications, Statement of Work or Purchase Description 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 seven (7) calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

6. Environmental Considerations

Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Environmental performance considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances. In accordance with the Policy on Green Procurement, for this solicitation:

The successful bidder will be requested, after contract award, to provide all correspondence including (but not limited to) documents, reports and invoices in electronic format unless otherwise specified by the Contracting Authority, the Technical Authority (I/A) or the Procurement Authority (I/A), thereby reducing printed material.

Bidders should recycle (shred) unneeded copies of non-classified/secure documents (taking into consideration the Security Requirements).

Product components used in performing the services should be recyclable and/or reusable, whenever possible.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

First page of the Request for Proposal signed by the bidder or an authorized representative of the Bidder (1 signed copy)

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

Section IV: Additional Information (1 hard copy)

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>). 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.

Bidders should submit, with their bid, the completed Technical Information Questionnaire.

1. Substitutes and Alternatives

Bidders may propose substitutes and alternatives where "shall^(E)" is indicated in the technical requirement description (Purchase Description/Statement of Requirement/Statement of Work).

1. Substitutes and alternatives that are equivalent in form, fit, function, quality and performance will be considered for acceptance by the Technical Authority where the Bidder:

- (a) Clearly identifies a substitute and/or an alternative;
- (b) Designates the brand name, model and/or part number of the substitute and/or of the product, where applicable;
- (c) States that the substitute product is fully interchangeable with the item specified in the technical requirement description;
- (d) Provides complete specifications and brochures, where applicable;
- (e) Provides compliance statements that include technical details showing the substitute and/or the alternative meet all technical requirements specified in the technical requirement description; and
- (f) Clearly identifies those areas in the technical requirement description and in the brochures that support the substitute and/or the alternative compliance with the technical requirements.

2. Substitutes and alternatives offered as equivalent in form, fit, function quality and performance will not be considered for acceptance by the Technical Authority if:

- (a) The bid fails to provide all of the information requested to allow the Technical Authority to fully evaluate the equivalency; or
- (b) The substitute and/or the alternative fail to meet or fail to exceed the technical requirements specified in the technical requirement description.

3. Bidders are encouraged to offer or suggest green products whenever possible.

Section II: Financial Bid

Bidders must submit their bid in accordance with the Basis of Payment specified in Part 7 and at Annex A - Pricing. The total amount of applicable taxes must be shown separately.

Bidders should complete Annex A and submit it with their bid.

1. SACC Manual Clauses

1.1 Exchange Rate Fluctuation

1. Unless otherwise specified in the bid solicitation, bids must be in Canadian currency.
2. Bidders may request Canada to assume the risk for exchange rate fluctuation. This request must be specifically made at time of bidding.
3. The foreign currency component is defined as the element of the price that will be directly affected by exchange rate fluctuations. It could include the net price FOB foreign manufacturer's plant, costs associated with applicable duty, excise tax and Applicable Taxes, entry fees, transportation costs or delivery charges payable in a foreign currency, and any other charges associated with being the importer of record if they originated from and are required to be paid in a foreign currency.
4. The foreign value of the foreign currency component of the bid or negotiated price must be provided before contract award. Form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it is recommended to indicate on the above form the foreign currency component associated with each milestone event.
5. All bids are evaluated in Canadian currency. Therefore, for evaluation purposes, the noon rate quoted by the Bank of Canada as being in effect on date of bid closing, or such other date as may be specified in the bid solicitation, will be applied as the initial conversion factor for the specified currency. (Column 3 of the above form will be completed by the Contracting Authority.)
6. Rates proposed by bidders will not be accepted for the purposes of this exchange rate adjustment provision.
7. If there are two (2) identical bids, and provided that the bid selected would still be considered the most advantageous to Canada, preference will be given to the Bidder who assumes all or part of the exchange rate adjustment risk over a bidder who does not assume any of this risk. Furthermore, preference will be given to the Bidder who assumes all of the exchange rate adjustment risk over a bidder who assumes only part of this risk.
8. Canada will pay the exchange rate adjustment amount in Canadian currency using the prevailing noon rate on the date of payment by Canada or, as applicable, in accordance with one of the following clauses: C3015C, C3020C, C3025C, or C3030C.

Section III: Certifications

1. Certifications

Bidders must submit the certifications required under Part 5.

Section IV: Additional Information

1. Additional Information

Canada requests that bidders submit the following information:

1.1 Delivery

1.1.1 Firm Quantity

While delivery of the equipment/vehicle is requested by 29 March 2014 the best delivery that could be offered is as follows:

Item 001 – four (4) sweeper, street, truck mounted and ancillary items will be delivered within _____ weeks/calendar days from the effective date of the contract.

1.1.2 Optional Quantity

The best delivery that could be offered is as follows:

Item 002 - If an option is exercised, up to two (2) sweeper, street, truck mounted and ancillary items will be delivered within _____ weeks/calendar days.

1.2 Supplier Contacts

Name and telephone number of the person responsible for:

General enquiries

Name: _____

Telephone No. _____

Facsimile No. _____

E-mail address: _____

Delivery follow-up

Name: _____

Telephone No. _____

Facsimile No. _____

E-mail address: _____

1.3 After Sales Service

Canada requests that the Bidder provide the names, addresses and telephone numbers of their dealers and/or agents authorized to provide after sales service, maintenance and warranty repairs, and a full range of repair parts for the vehicle/equipment offered. The Bidder should show the

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distance between the delivery location and the authorized dealer and/or agent and the delivery location, which should not be more than 100 kilometres.

For CFB USS Valcartier

Distance between the delivery location and the dealer and/or agent: _____ km

Name: _____

Address: _____

Telephone number: _____

For CFB ASU Sup Edmonton

Distance between the delivery location and the dealer and/or agent: _____ km

Name: _____

Address: _____

Telephone number: _____

For CFB/ASU Kingston

Distance between the delivery location and the dealer and/or agent: _____ km

Name: _____

Address: _____

Telephone number: _____

For CFB ASU Petawawa

Distance between the delivery location and the dealer and/or agent: _____ km

Name: _____

Address: _____

Telephone number: _____

1.4 Manufacturer's Standard Warranty Period

Canada requests that the Bidder provide details of the manufacturer's standard warranty period for the vehicle/equipment and its component that exceeds the minimum warranty period of twelve (12) months or 1000 hours of usage, whichever comes first. Any additional manufacturer's standard warranty such as those derived from the Original Equipment Manufacturer (OEM) for component/sub-assemblies will form part of the proposed contract.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

(a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

(b) An evaluation team composed of representatives of Canada will evaluate the bids.

1.1. Mandatory Technical Evaluation Criteria

1.1.1 Mandatory Proof of Compliance

Bidders must submit, with their bid, all proof of compliance required in the Purchase Description and the Technical Information Questionnaire.

1.1.2 Substitutes and/or Alternatives

Bidders proposing substitutes and/or alternatives must provide with their bid, all the information as detailed in Part 3, Section 1, - Substitutes and Alternatives to be considered for evaluation.

1.2. Mandatory Financial Evaluation Criteria

1.2.1. Bidders must provide with their bid all financial information requested in the bid solicitation and at Annex A - Pricing for items 001, 002 and 004.

1.2.2 The prices of the bid must be in Canadian dollars, DDP Delivered Duty Paid at destination, Incoterms 2000, for item 001 the firm quantity and FCA Free Carrier at Contractor's Canadian facility or the Contractor's Canadian Distribution Point, Incoterms 2000 for items 002 (optional quantity) and 004 (optional familiarization instruction/training), Canadian Custom Duties and Excise Taxes included where applicable, and Applicable Taxes are extra.

1.2.3 Aggregate Evaluated Price

Bids will be evaluated on an aggregate price basis for the firm quantity, the optional quantity and familiarization instructions/training (option) as follows:

a) the firm lot prices for the firm quantity, the optional quantity and familiarization instruction/training (option) will be multiplied by their identified estimated quantities; and

b) the sum of all results will determine the evaluated aggregate price.

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2. Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical and financial evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated aggregate price will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and documentation 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 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

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2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

2.1 Product Conformance

The Bidder certifies that all vehicles/equipment proposed conform, and will continue to conform throughout the duration of the contract, to all technical specifications of the purchase description(s).

This certification does not relieve the bid from meeting all mandatory technical evaluation criteria detailed in Part 4.

Bidder's authorized representative signature

Date

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PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

1. Security Requirement

There is no security requirement associated with this bid solicitation.

2. Financial Capability

SACC Reference	Title	Date
A9033T	Financial Capability	2012-07-16

PART 7 - RESULTING CONTRACT CLAUSES

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

1. Requirement

The Contractor must deliver four (4) sweeper, street, truck mounted and ancillary items, including familiarization instruction/training, in accordance with the Purchase Description Sweeper, Street, Truck Mounted, 2.4 metre Sweeping Path, Vacuum Pick-up dated 10 July 2013 and at Annex A - Pricing.

An option is included to purchase up to two (2) sweeper, street, truck mounted vehicles and ancillary items to be exercised within twelve (12) months from the effective date of the contract.

1.1 Technical Changes, Substitutes and Alternatives

Any technical changes, substitutes and alternatives proposed by the Contractor must be evaluated for acceptance by the Technical Authority. Any substitutes and alternatives must be equivalent in form, fit, function, quality and performance to what is being replaced and must be at no additional cost to Canada. Substitutes and alternatives that are offered as equivalent will only be acceptable once they are approved by the Technical Authority as an equivalent. A contract amendment or a completed Design Change/Deviation form will be issued.

Should the Technical Authority not accept the substitute or the alternative and the Contractor is unable to meet the technical requirement, Canada may terminate the contract for default in accordance with the general conditions stated in the contract.

1.2 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described herein 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.

The option may be exercised at the discretion of Canada in whole or in part or in more than one occasion, up to the maximum quantity identified herein.

The Contracting Authority may exercise the option within twelve (12) months after contract award by sending a written notice to the Contractor.

The Contractor must advise the Technical Authority and Contracting Authority of any design updates that could affect the procurement of additional vehicles/equipment.

2. 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>) issued by Public Works and Government Services Canada.

2.1 General Conditions

2010A (2013-04-25), General Conditions - Medium Complexity - Goods, apply to and form part of the Contract.

Section 09 entitled Warranty of General Conditions 2010A is amended as follows:

At subsection 1, delete the following: “The warranty period will be twelve (12) months” and replace with the following: “The warranty period will be twelve (12) months, or 1,000 hours of usage, whichever comes first”.

Delete subsection 2 in its entirety and replace 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.

If action to effect repairs under warranty cannot be initiated within two (2) working days and completed within a reasonable length of time or if the Contractor has no repair facilities in the immediate vicinity (within 100 kilometres) of the specified delivery destinations (consignees), Canada reserves the right to make such repairs and be reimbursed by the Contractor at the rate of \$103.91 per hour for labour and the cost for replaced parts.”

All other provisions of the warranty section remain in effect.

3. Security Requirement

There is no security requirement applicable to this Contract.

4. Term of Contract

4.1 Delivery Date

Delivery of the vehicle/equipment must be made as follows:

Firm Quantity

Item 001 – four (4) sweeper, street, truck mounted and ancillary items must be delivered within to be inserted by PWGSC weeks/calendar days from the effective date of the contract.

Optional Quantity

Item 002 - If the option is exercised, up to two (2) sweeper, street, truck mounted and ancillary items must be delivered within to be inserted by PWGSC weeks/calendar days after an option is exercised.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Alain Bertrand
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
LEFTD - HS Division
Place du Portage, Phase III, 7B1
Gatineau, Quebec K1A 0S5
Telephone: 819-956-4025
Facsimile: 819-956-5227
E-mail address: alain.bertrand@pwgsc.gc.ca

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

5.2 Procurement Authority

The Procurement Authority for the contract is:

To be inserted by PWGSC

DLP _____

National Defence Headquarters
Mgen. George R. Pearkes Building

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101 Colonel By Drive

Ottawa, Ontario K1A 0K2

Telephone: _____

Facsimile: _____

E-mail address: _____

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

5.3 Technical Authority

The Technical Authority for the Contract is:

To be inserted by PWGSC

National Defence Headquarters

Mgen. George R. Pearkes Building

101 Colonel By Drive

Ottawa, Ontario K1A 0K2

Telephone: _____

Facsimile: _____

E-mail address: _____

The Technical Authority 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.

5.4 Contractor's Representative

General enquiries

Name: To be inserted by PWGSC

Telephone No. _____

Facsimile No. _____

E-mail address: _____

Delivery follow-up

Name: To be inserted by PWGSC

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Telephone No. _____

Facsimile No. _____

E-mail address: _____

5.5 After Sales Service

The following dealer and/or agent is authorized to provide after sales service, maintenance and warranty repairs; and a full range of repair parts for the vehicle/equipment offered:

For BFC USS Valcartier

Distance between the delivery location and the dealer and/or agent: _____ km

Name: _____

Address: _____

Telephone number: _____

For CFB ASU Sup Edmonton

Distance between the delivery location and the dealer and/or agent: _____ km

Name: _____

Address: _____

Telephone number: _____

For CFB/ASU Kingston

Distance between the delivery location and the dealer and/or agent: _____ km

Name: _____

Address: _____

Telephone number: _____

For CFB ASU Petawawa

Distance between the delivery location and the dealer and/or agent: _____ km

Name: _____

Address: _____

Telephone number: _____

6. Payment

6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm price(s) specified in Annex "A" - Pricing, and as follows:

6.1.1 Basis of Payment (BOP) Type 1

Firm lot prices in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

6.1.2 Basis of Payment (BOP) Type 2

Firm lot prices in Canadian dollars, FCA Free Carrier, Incoterms 2000 at Contractor's Canadian facility or Contractor's Canadian distribution point, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

6.1.3 Basis of Payment (BOP) Type 3

Price to be negotiated in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

The transportation cost will be "negotiated" when Canada intends to exercise an option and has identified the applicable quantities and destinations. When requested by Canada, as a basis for negotiation, the Contractor must provide the transportation price(s) and relevant information.

6.1.4 Basis of Payment (BOP) Type 4

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive (<http://www.njc-cnm.gc.ca/directive/index.php?sid=90&hl=1&lang=eng>), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

All travel must have the prior authorization of the Technical Authority. All payments are subject to government audit.

All travel and living expenses incurred in the performance of the work outside Canada will be the Contractor's responsibility.

When requested by Canada, the Contractor must provide an estimated cost and relevant information for the travel and living.

6.2 SACC Manual Clauses

SACC Reference	Title	Date
C6000C	Limitation of Price	2011-05-16
H1001C	Multiple Payments	2008-05-12

6.3 Exchange Rate/Payment on Delivery

-
1. The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments.
 2. The price must be adjusted to reflect the exchange rate in effect and applied by Canada Border Services Agency (CBSA) on the date of importation, but only in respect of the foreign currency component detailed in the above form.
 3. No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.
 4. On each invoice or claim for payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In addition, the invoice must be accompanied by a copy of CBSA Form B3-3, Canada Customs Coding Form, for the imported goods, services or both.
 5. Canada will have the right to audit any revision to costs and prices under this clause.

7. Invoicing

7.1 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions.
2. Invoices cannot be submitted before delivery, inspection and acceptance of the vehicle/equipment/service.
3. The Applicable Taxes must be calculated on the total amount of the invoice before the holdback is applied. At the time the holdback is claimed, there will be no taxes payable as they were claimed and payable under the previous invoice for the vehicle/equipment/service.
4. Upon delivery, inspection and acceptance of all ancillary items related to such vehicle/equipment/service the Contractor can submit an invoice for the release of the holdback.
5. Each invoice must be supported by:
 - (a) a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses;
6. The Contractor is requested to provide invoices in electronic format unless otherwise specified by the Contracting Authority or Procurement Authority, thereby reducing printed material.

7. Invoices must be distributed as follows:

(a) The original must be forwarded or emailed to the Procurement Authority identified under the section entitled "Authorities" of the Contract for acceptance and payment.

(b) One (1) copy must be forwarded or emailed to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

(c) One (1) copy must be forwarded to the consignee.

7.2 Holdback

1. Canada will apply a ten (10) percent holdback on any due payment for the vehicle/equipment/service (Items 001 to 002) until delivery, inspection and acceptance of all ancillary items related to such vehicle/equipment/service.

2. Subsequent to delivery, inspection and acceptance of all ancillary items related to such vehicle/equipment/service the Contractor must submit an invoice for the release of the Holdback in accordance with "Invoicing Instructions" found in this contract.

8. Certifications

8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation 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.

8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and HRSDC-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by HRSDC will constitute the Contractor in default as per the terms of the Contract.

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

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 2010A (2013-04-25) General Conditions - Medium Complexity - Goods;
- (c) Annex A - Pricing;
- (d) Purchase Description for Sweeper, Street, Truck Mounted, 2.4 metre Sweeping Path, Vacuum Pick-up dated 10 July 2013,
- (e) Annex B - Federal Contractors program for employment equity - Certification
- (f) The Contractor's bid dated (to be inserted by PWGSC) _____, as amended (to be inserted by PWGSC) _____.

11. SACC Manual Clauses (as applicable)

SACC Reference	Title	Date
A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2012-07-16
A9049C	Vehicle Safety	2011-05-16
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian Contractors	2011-05-16
D5545C	ISO 9001:2008 Quality Management Systems - Requirements (QAC C)	2010-08-16
G1005C	Insurance	2008-05-12

12. Inspection and Acceptance

The Technical Authority or his representative is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or it's representative. Should any report, document, good or service not be in accordance with the requirements of the Purchase Description and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

13. Preparation for Delivery

1. The vehicle/equipment shall be serviced, adjusted and delivered in condition for immediate use. The interior and exterior must be cleaned before leaving the factory and being released to the inspection authority or consignee at the final delivery location.
2. All vehicles/equipment are to be delivered by appointment only. Any attempt by the carrier to deliver the vehicles/equipment without an appointment may be refused. When the carrier is

required to return due to its failure to make an appointment for delivery, Canada will not be liable, to pay for any additional costs.

14. Shipping Instructions - Delivery at Destination

1. The Contractor must ship the goods prepaid DDP - Delivered Duty Paid (in accordance with Annex A - Pricing) as specified below. Unless otherwise directed, delivery must be made by the most economical means. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and Applicable Taxes.
2. The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the person identified in Annex A - Pricing. The consignee may refuse shipments when prior arrangements have not been made.

15. Delivery and Unloading (firm quantity)

1. Delivery trucks must be equipped with an unloading device which will permit unloading at sites with no hydraulic, stationary or other type of unloading facility.

16. Post-Contract Award Meeting

Within ten (10) calendar days from the effective date of the Contract, the Contractor must contact the Contracting Authority to determine if a post-contract award meeting is required. A meeting will be convened at the discretion of the Technical Authority after contract award to review technical and contractual requirements. The Contractor shall be responsible for the preparation and distribution of the minutes of meeting within five (5) calendar days after the meeting has been held. The meeting will be held at the Contractor's facilities or at the Department of National Defence facility or via teleconference, at Canada's discretion at no additional cost to Canada, with representatives of the Contractor, the Department of National Defence and Public Works and Government Services Canada.

17. Tools and Loose Equipment

For shipment verification, all items and tools, which are shipped loose with the vehicle/equipment must be listed on the Inspection Certificate (CF1280) or on an attached packing note.

18. Assembly/Preparation at Delivery

The Contractor must send a Service Representative to each delivery destination to perform the assembly/preparation on all vehicles/equipment delivered. The assembly/preparation must be performed at no additional cost to Canada.

19. Interchangeability

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Unless changes during the production run are authorized by the Contracting Authority, all vehicles/equipment supplied against any one item of a contract must be the same make and model, and all like assemblies, sub-assemblies and parts must be interchangeable.

20. Environmental Considerations

Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Environmental performance considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances. In accordance with the Policy on Green Procurement:

The Contractor is requested to provide all correspondence including (but not limited to) documents and reports in electronic format unless otherwise specified by the Contracting Authority, the Technical Authority (I/A) or the Procurement Authority (I/A), thereby reducing printed material.

The Contractor should recycle (shred) unneeded copies of non-classified/secure documents (taking into consideration the Security Requirements).

Product components used in performing the services should be recyclable and/or reusable, whenever possible.

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ANNEX A - PRICING

Item 001 – Sweeper, Street, Truck Mounted (Firm Quantity)

The Contractor must deliver four (4) Sweeper, Street, Truck Mounted, 2 and ancillary items such as but not limited to vehicle manuals, data summary, photographs, preventive maintenance replacement parts kit list, warranty letter(s) and Initial Parts Kits including familiarization instruction/training, in accordance with the attached Purchase Description Sweeper, Street, Truck Mounted, 2.4 metre Sweeping Path, Vacuum Pick-up dated 10 July 2013

Manufacturer: (to be inserted by PWGSC) Model: (to be inserted by PWGSC)

Destination A

One (1) Sweeper, Street, Truck Mounted and ancillary items must be delivered to:

BFC Valcartier
Major Equipment Section
Building 188 (PON COMB)
Courcelette, QC
GOA 4Z0

The contact person at destination is: (to be inserted by PWGSC).

Firm lot price of \$ _____ per vehicle/equipment and ancillary items, Delivered Duty Paid (... named place of destination), in accordance with Part 7, Basis of Payment Type 1.

Destination B

One (1) Sweeper, Street, Truck Mounted and ancillary items must be delivered to:

CFB Edmonton
Major Equipment Section
107 Street & 137 Avenue, Bldg. C8
Edmonton, AB
T5J 4J5

The contact person at destination is: (to be inserted by PWGSC).

Firm lot price of \$ _____ per vehicle/equipment and ancillary items, Delivered Duty Paid (... named place of destination), in accordance with Part 7, Basis of Payment Type 1.

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Destination C

One (1) Sweeper, Street, Truck Mounted and ancillary items must be delivered to:

CFB Kingston
Major Equipment Section
5 Somme Avenue, Bldg. C36
Kingston, ON
K7K 5L0

The contact person at destination is: (to be inserted by PWGSC).

Firm lot price of \$_____ per vehicle/equipment and ancillary items, Delivered Duty Paid (... named place of destination), in accordance with Part 7, Basis of Payment Type 1.

Destination D

One (1) Sweeper, Street, Truck Mounted and ancillary items must be delivered to:

CFB Petawawa
Major Equipment Section
Petawawa, ON
K8H 2X3

The contact person at destination is: (to be inserted by PWGSC).

Firm lot price of \$_____ per vehicle/equipment and ancillary items, Delivered Duty Paid (... named place of destination), in accordance with Part 7, Basis of Payment Type 1.

Item 002 – Sweeper, Street, Truck Mounted (Optional Quantity)

If this option is exercised, the Contractor must deliver up to two (2) Sweeper, Street, Truck Mounted and ancillary items such as but not limited to vehicle manuals, data summary, photographs, preventive maintenance replacement parts kit list, warranty letter(s) and Initial Parts Kits, excluding familiarization instruction/training, in accordance with the attached Purchase Description Sweeper, Street, Truck Mounted, 2.4 metre Sweeping Path, Vacuum Pick-up dated 10 July 2013,

Firm lot price of \$_____ per vehicle/equipment and ancillary items, at Contractor's Canadian facility or Contractor's Canadian distribution point in accordance with Part 7, Basis of Payment Type 2.

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Manufacturer: (to be inserted by PWGSC) Model: (to be inserted by PWGSC)

Item 003 - Transportation Cost (Optional Quantities)

If an option is exercised in accordance with item 002 above, the Contractor must deliver the vehicle/equipment to destination as follows:

Quantity: (to be inserted by PWGSC if an option is exercised)

The Sweeper, Street, Truck Mounted and ancillary items must be delivered to:

(to be inserted by PWGSC if an option is exercised)

The contact person at destination is:(to be inserted by PWGSC if an option is exercised).

Negotiated price of \$(to be negotiated if an option is exercised) per vehicle/equipment, for transportation cost, Delivered Duty Paid (... named place of destination), in accordance with Part 7, Basis of Payment Type 3.

(Item 003 will not be included in the financial evaluation)

Item 004 - Familiarization Instruction/Training (Option)

If this option is exercised, the Contractor must provide up to two (2) Sweeper, Street, Truck Mounted, familiarization instruction/training, in accordance with the attached Purchase Description for Sweeper, Street, Truck Mounted, 2.4 metre Sweeping Path, Vacuum Pick-up dated 10 July 2013

Firm unit price of \$_____ per familiarization instruction/training in accordance with Part 7, Basis of Payment Type 2.

Item 005 - Travel and Living for Familiarization Instruction/Training (Option)

The Contractor must deliver the familiarization instruction/training to:

(to be inserted by PWGSC if an option is exercised)

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Estimated Cost: \$(to be inserted by PWGSC if an option is exercised) in accordance with Part 7, Basis of Payment Type 4.

(Item 005 will not be included in the financial evaluation)

Item 006 – Extended Warranty Period

If the warranty period is extended for an additional period of _____ months/calendar days, the Contractor will be paid a firm unit price of \$_____ per vehicle/equipment, Goods and Services Tax or the Harmonized Sales Tax extra.

(Item 006 will not be included in the financial evaluation)

ANNEX B
**FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY -
 CERTIFICATION**

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with such request by Canada will also render the bid non-responsive or will constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit HRSDC-Labour's website.

Date: _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

A1. The Bidder certifies having no work force in Canada.

A2. The Bidder certifies being a public sector employer.

A3. The Bidder certifies being a federally regulated employer being subject to the Employment Equity Act.

A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).

A5. The Bidder has a combined workforce in Canada of 100 or more employees; and

A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with HRSDC-Labour.

OR

A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to HRSDC-Labour. As this is a condition to contract award,

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proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to HRSDC-Labour.

B. Check only one of the following:

B1. The Bidder is not a Joint Venture.

OR

B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

PURCHASE DESCRIPTION
FOR
SWEEPER, STREET, TRUCK MOUNTED
2.4 METRE SWEEPING PATH, VACUUM PICK-UP

ECC 166330

1. SCOPE

1.1 Scope - This purchase description covers a diesel engine driven, truck mounted, street sweeper equipped with a minimum 2.4 metre sweeping path, vacuum pick-up system, water system, and a dumping hopper.

1.2 Instructions - The following instructions apply to this Purchase Description:

- a) Requirements, which are identified by the word "**shall**", are mandatory. Deviations will not be permitted;
- b) Requirements identified by "**shall**^(B)" are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as an equivalent;
- c) Requirements identified with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- d) Where "**shall**", "**shall**^(B)", or "will" are not used, the information provided is for guidance only;
- e) In this document "provided" **shall** mean "provided and installed";
- f) Where technical certification is required, a copy of the certification or an acceptable "proof of compliance" **shall** be provided;

- g) Metric measurements **shall** be used to define the requirement. Other measurements are for reference only and may not be exact conversions; and
- h) Dimensions stated as nominal **shall** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

1.3 Definitions - The following definitions apply to the interpretation of this Purchase Description:

- a) "Technical Authority" - The government official responsible for technical content of this requirement.
- b) "Guidance" - A requirement that may be followed. Guidance is provided to indicate a preferred component make and model or dimension that would be best for the application. However, a bid can still be considered compliant while deviating from "guidance".

2. APPLICABLE DOCUMENTS - The following documents form part of this Purchase Description. The dates of issue are those in effect on the date of release of the RFP. Sources are as shown:

CAN/CGSB 3.517-2007

Automotive (On-Road) Diesel Fuel
Canadian General Standards Board
11 Laurier Street, Place du Portage III, 6B1
Gatineau, QC, K1A 1G6
<http://www.tpsgc.gc.ca/cgsb/home/index-f.html>

Canadian Motor Vehicle Safety Standards (CMVSS)

Transport Canada,
Road Vehicle and Motor Vehicle Regulation,
330 Sparks Street, Tower C,
Ottawa, Ontario K1A 0N5
<http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm>

Rule 1186 PM₁₀ EMISSIONS FROM PAVED AND UNPAVED ROADS

South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA, 91765
<http://www.aqmd.gov/tao/FleetRules/1186.1Sweepers/>

SAE Handbook

Society of Automotive Engineers Inc.
400 Commonwealth Dr.,
Warrendale, PA, 15096
<http://www.sae.org>

Yearbook

Tire and Rim Association Inc.,
3200 West Market St.,
Akron, Ohio, 44321
<http://www.us-tra.org/traHome.htm>

3. REQUIREMENTS

3.1 Standard Design - The vehicle design *shall*:

- a) Be the manufacturer's latest model having demonstrated industry acceptability by having been manufactured and sold commercially for at least 1 year, or, *shall* be manufactured by a company that has at least 5 years experience in design and manufacturing of a comparable type of equipment of equivalent or greater complexity;
- b) Have engineering certification available for this application from the original manufacturers of major drive train components, and major equipment systems and assemblies;
- c) Conform to all applicable laws, regulations and industry standards governing manufacture, safety, noise levels, and pollution in effect in Canada at time of manufacture;
- d) Have system and component capacities not greater than their published ratings (i.e. product or component brochures) or accompanied by proof of compliance; and
- e) Include all components, equipment and accessories normally supplied for this application, although they may not be specifically described in this purchase description.

3.2 Operating Conditions

3.2.1 Weather - The vehicle *shall* operate under weather conditions found in Canada in temperatures ranging from 0°C to 38°C. The vehicle *shall* be stored in ambient temperatures of -50°C to 50°C.

3.2.2 Terrain - The vehicle *shall* be operated on uneven asphalt or concrete roads, streets, airport runways, parking lots, parade areas, and other paved surfaces.

3.3 Safety

3.3.1 Vehicle Safety requirements

- a) CMVSS - The vehicle *shall* comply with all applicable Canada Motor Vehicle Safety Standards (CMVSS) in effect and applicable by law in Canada on the date of manufacture.
- b) PM₁₀ - The Sweeper *shall*^(E) be certified as meeting the Rule 1186 sweeper certification procedures and requirements for PM₁₀-efficient sweepers.

3.3.2 Noise Level - The vehicle/equipment noise level *shall* meet the requirements of legislation relative to Occupational Safety and Health both at the operator's station and exterior to the vehicle.

3.3.3 **Human Engineering and Safety** - The vehicle/equipment, all systems and components **shall**:

- a) Be safe and easy to use by CAF users having anthropometric characteristics ranging from 95th percentile male characteristics to 5th percentile female characteristics;
- b) Have entry and exit points equipped with handles and steps appropriately sized and positioned to accommodate CAF users having anthropometric characteristics ranging from 95th percentile male characteristics to 5th percentile female characteristics; and
- c) Be equipped, where required for operator safety, with safety features such as warning and instruction plates, non-slip walking surfaces and heat shields.

3.4 **Vehicle Performance**

- a) The vehicle **shall** have a minimum sweeping path of 2.4 metres (94.5").
- b) The vehicle **shall** have a minimum sweeping speed of 5 km/h.
- c) The equipment **shall** sweep and pick-up, in one pass, a minimum of 80 percent of material, IAW Rule 1186 Appendix A.
- d) The equipment **shall** pick-up and retain large objects (examples of large objects: half-bricks, pop bottles, pop cans, nails, nuts, bolts, washers, and flat pieces of cardboard).
- e) The vehicle **shall** travel up a 25 percent grade, without slowing beyond the required minimum sweeping speed.
- f) The vehicle **shall** reach a minimum travel speed of 95 km/h.

3.4.1 **Weights and Dimensions**

- a) **Gross Vehicle Weight Rating (GVWR)** - The GVWR of the vehicle **shall** be at least equal to the curb weight of the completed vehicle with all equipment installed and tanks full, as published in the manufacturer's literature and engineering data.
- b) **Gross Axle Weight Rating (GAWR)** - The axles and suspension system **shall** not be loaded greater than their rated capacities when the unit is in operating mode, with all equipment installed and tanks full.

3.4.2 **Vehicle Delivery Condition** - The vehicle **shall** be delivered to destination clean and in a fully operational condition (serviced and adjusted). If the vehicle requires assembly at destination, the Contractor **shall** be responsible for all manpower and equipment to perform assembly. The consignee will provide the area required for assembly. For shipment verification, all items such as wheel wrenches, jacks, and all other tools, equipment and accessories, which are shipped loose with the equipment, **shall** be listed on the shipping certificate or to an attached packing note.

3.5 Cab and Chassis

3.5.1 Cab - The vehicle **shall** be equipped with a sealed and pressurized, minimum two person cab that provides a dust free working environment. The cab **shall**^(E) be equipped with:

- a) Fully adjustable independent suspension seats, with dark heavy-duty upholstery, retractable shoulder/lap belt assemblies and armrests;
- b) External, motorized rear-view mirrors, equipped with lights, defroster elements, and a convex portion on each side;
- c) The manufacturer's standard interior (i.e. dark upholstery, lining, insulation, vinyl mats, molded armrests, cup holders, sun visors);
- d) Interior and exterior grab handles;
- e) An AM/FM stereo radio with CD player and auxiliary port;
- f) At least 2 entry/egress doors equipped with power opening windows in the upper portion of each cab door;
- g) Air and/or electric horns. If air horns are mounted on the roof, then snow shields **shall**^(E) be provided;
- h) Fog lights mounted in bumper with amber lens and rock guards;
- i) Tinted safety glass to reduce solar heating effects;
- j) Windshield washer system, including intermittent windshield wipers, for clearing the windshield during driving operations. The direction of clearing **shall not** have wiper blades travelling from a vertical centre windshield position to a horizontal position near the roof line;
- k) Factory installed air-conditioning equipped with all components and controls required for regulation of the cab interior temperature. The air conditioning system **shall** not use ozone-depleting refrigerants (chlorofluorocarbons (CFCs)) and **shall**^(E) use hydrofluorocarbons (HFCs);
- l) A cruise control system; and
- m) At least one LED interior light for the cab, including dome and reading lights with individual switches.

3.5.2 Chassis - The chassis **shall** be the manufacturers standard, suitably sized to meet the vehicle's gross laden weight and ensure satisfactory operation under specified operating conditions.

3.5.3 Vehicle Equipment - The vehicle **shall** be equipped with:

- a) Licence plate holders, front and rear. The rear licence plate **shall** be LED illuminated;
- b) Towing hook or hooks at the rear;
- c) A front bumper; and
- d) Front and rear mud flaps in accordance with SAE Recommended Practice J682.

3.6 Transport Engine - The vehicle **shall** be equipped with a liquid cooled engine, which operates on diesel fuel to the CAN/CGSB Standard 3.517-2007. Engine manufacturer's certification for this application **shall** be available upon request. The engine system **shall**^(E) be equipped with:

- a) The manufacturers recommended safety or emergency shut-down controls in the cab;
- b) Dual element safety dry type air cleaning system, and an air cleaner restriction indicator;
- c) A full flow oil filter with a spin-on or replaceable element;
- d) An automatic engine shut-down or power de-rate system for low engine oil pressure or high engine coolant temperature. A warning indicator visible from the operator's positions **shall** be included. An audible alarm is desirable;
- e) If a diesel particulate filter is used, a manual or parked regeneration feature **shall** be provided to remove excess soot from the filter; and
- f) Any measures other than those already required by this Purchase Description that are necessary to adhere to the engine manufacturer's recommendations for operation in the environmental conditions specified in Paragraph 3.2.

3.6.2 Fuel Tank(s) - The vehicle **shall** be equipped with fuel tank(s) with sufficient capacity to enable the vehicle to be operated at 80 per cent power for a minimum of 6 hours without refuelling. The fuel system **shall**^(E):

- a) Have a switch/valve that the driver can use to alternate between tanks while maintaining engine operation, if the vehicle is equipped with multiple tanks;
- b) Be equipped with a non-spill type air vent;
- c) Have a drain cock or plug installed at the lowest point of the fuel tank(s);
- d) Have tank(s) equipped with fuel filler cap(s) located in an accessible location for filling;
- e) Have all fuel tanks full and mounted on delivery; and

- f) Be equipped with a fuel/water separator.

3.6.3 **Exhaust** - The engine **shall** be equipped with a muffler or exhaust system suitably located and/or shielded so that personnel will not contact a heated surface. The exhaust system **shall**^(E) be equipped with weather guards or an effective device to prevent entry of rain into intake and exhaust stacks, if applicable.

3.7 **Transmission** - The vehicle **shall** be equipped with an electronically controlled fully automatic transmission, which is compatible with the provided diesel engine. Automatic transmissions are defined as transmissions that require no driver intervention, to start, to change ratio, or to stop, once the drive ratio has been selected. The transmission **shall**:

- a) Have a minimum of five (5) forward speeds and one reverse speed;
- b) Be equipped with a neutral start safety switch;
- c) Be programmed to allow the fast idle to engage only when the transmission is in park/neutral and the parking brake is applied;
- d) Be programmed to prevent the transmission from engaging when the fast idle is engaged or disengage fast idle when attempting to engage the transmission with fast idle engaged;
- e) Have an illuminated shift control quadrant; and
- f) Have a transmission oil cooler.

3.8 **Braking System** - The vehicle **shall** be equipped with full air actuated service brakes and spring actuated parking brakes, which comply with Canadian Motor Vehicle Safety Standards. The brake system **shall**^(E) include:

- a) A low air pressure indicator controlling a buzzer audible to the driver and a red warning light on the instrument panel. The warning devices **shall**^(E) operate only when the ignition switch is in the "ON" position;
- b) An air pressure governor;
- c) A wet tank equipped with automatically operated, electrically heated, moisture-expelling valve(s). The wet tank **shall**^(E) be recharged from an external source using a glad hand air coupler;
- d) Glad hands air couplers, with integral cover. A blue cover for service connection and a red cover for emergency connection **shall** be provided;
- e) A spring applied, air released, parking brake with arrangements for automatic service brake application on the rear axles in the event of loss of air pressure;

- f) A 4-channel anti-lock brake system (ABS);
- g) Automatic slack adjusters;
- h) An automatic air dryer;
- i) Brake housing dust shields and visual brake stroke indicators on all wheels; and
- j) Air brake hoses conforming to SAE Standard J1402. Brake lines passing through metal **shall**^(E) be protected to prevent damage or failure due to chafing or vibration.

3.9 Steering

- a) The vehicle steering system **shall** drive from both the right and left side of the vehicle.
- b) The steering system **shall**^(E) be full power steering.
- c) The steering system **shall** provide emergency steering, with the engine stopped.

3.10 Wheels, Rims and Tires

- a) The provided wheels, tires, and rims **shall** have the manufacturer's certification that they are suitable and adequately sized for this application. Tire size and ply ratings **shall**^(E) be in accordance with Tire and Rim Association Standards.
- b) Tires **shall** be steel belted, tubeless, and tires of radial ply construction.
- c) All wheels **shall**^(E) be steel or aluminum disc type.
- d) Each tire **shall** balance within practicable limits. Wheels, hubs and brakes **shall** be effectively in balance. Balancing **shall** be adequate to preclude wheel shimmy at all vehicle speeds.
- e) A full-sized, assembled, spare wheel and tire **shall** be delivered with each vehicle.

3.11 Vehicle Controls

- a) Controls **shall** be permanently marked to identify and show the function of each control lever or switch.
- b) Control markings/instructions **shall**^(E) be in English and French or international symbols as defined by SAE J1362.
- c) Controls **shall**^(E) be grouped in the cab for quick and convenient operation, unless otherwise stated.
- d) Controls **shall** not restrict the operator's field of view.

- e) The vehicle **shall** be equipped with equipment controls mounted on a central terminal for use from either the right or left operator positions. The controls **shall**^(E) include controls for all sweep, spray water, lighting functions, and auxiliary engine ignition and throttle.

3.12 Chassis Instruments - The vehicle **shall** be equipped with chassis OEM (Original Equipment Manufacturers) instrument panels for both the left side operator position, and the right side operator position. The instruments **shall** be readily visible while seated at each operator's station and **shall**^(E) be illuminated for visible in dim light. Instruments visible to each location **shall**^(E) include:

- a) Ammeter, or voltmeter;
- b) Engine oil pressure indicator;
- c) Fuel gauge or fuel gauges, as required;
- d) Water temperature indicator;
- e) Coolant temperature indicator;
- f) Transmission temperature gauge with high temperature indicator;
- g) Air pressure gauge, with low pressure warning light and audible alarm;
- h) Hour-meter with numeric display, which accurately records accumulated engine running time up to at least 9,999 hours; The meter **shall** register only when the engine is running;
- i) Engine tachometer;
- j) A speedometer (indicating kilometres),
- k) Odometer (indicating kilometres);
- l) Outside air temperature sensor; and
- m) A filter restriction indicator.

3.13 Chassis Electrical System - The vehicle **shall** be equipped with a 12-volt electrical system. The system **shall** include:

- a) Wire identification (colour coded/function), weatherproof connectors, protective loom and secure fastening;
- b) Heavy-duty maintenance free batteries, in an accessible well protected location, mounting **shall**^(E) include heat shielding if necessary, proper hold-downs, and sealed/vented if the location is near the occupants;
- c) An alternator, with voltage output compatible with the specific battery type, IAW the manufacturer's specifications;

- d) A master battery cut-off switch accessible from ground level on the driver's side;
- e) Wiring protected by insulating grommets where passing through metal;
- f) SAE approved fuses or circuit breakers with trip indicators protecting all circuits; and
- g) An engine compartment light with conveniently located switch.

3.13.1 Lighting

- a) CMVSS - Lighting **shall** be installed on the vehicle in accordance with CMVSS, including all required clearance lights, turn signals, stoplights, headlights, and marker lights. Retroreflective sheeting (Conspicuity Tape) **shall** be installed on the completed vehicle in accordance with CMVSS. Lighting **shall**^(E) incorporate LEDs wherever possible. Lighting **shall**^(E) be positioned to prevent glare in the rear-view mirrors.
- b) Signals - Vehicle turn signals **shall**^(E) be self-cancelling.
- c) Reverse Lights - The vehicle **shall** be equipped with lighting to indicate reversing in low-light conditions.
- d) Beacon Light - The vehicle **shall** be equipped with minimum of one roof mounted amber LED stroboscopic beacon light, mounted at the highest point, to allow for 360 degree visibility.
- e) Lights and reflectors at the rear **shall** be recessed or otherwise protected from damage.
- f) The vehicle **shall** be equipped with an adjustable LED type spotlight to illuminate the gutter broom; and
- g) The vehicle **shall** be equipped with a minimum of two protected rear facing LED work lights.

3.15 Application Equipment

3.15.1 Auxiliary Engine - The sweeper **shall** be equipped with an auxiliary engine which operates on diesel fuel to the CAN/CGSB Standard 3.517-2007. The engine **shall** be an appropriate size to fill its sole purpose to provide full power to the sweeping and air conveyance systems. Engine manufacturer's certification for this application **shall** be available upon request. The engine system **shall**^(E):

- a) Have a dual element safety dry-type air cleaning system for combustion air to protect the engine and its components, with change indicators installed for the filter elements;
- b) Be mounted to the vehicle in a protected location, and accessible for easy of maintenance activities without tilting the hopper;

- c) Be equipped with a device which allows for smooth starting and stopping of the engine and prevents the momentum of the fan system from driving the engine when it is turned off;
- d) Be equipped with illuminated engine instruments, to provide complete information to the operator on the condition of the auxiliary engine. The auxiliary engine instruments **shall**^(E) include:
 - i. Ammeter, or voltmeter;
 - ii. Engine oil pressure indicator;
 - iii. Fuel gauge;
 - iv. Coolant temperature indicator;
 - v. air intake restriction indicator;
 - vi. Hour-meter with numeric display, which accurately records accumulated engine running time up to at least 9,999 hours; The meter **shall** register only when the engine is running; and
 - vii. Engine tachometer.

3.15.2 **Air Conveyance System** - The sweeper **shall** be equipped with an air conveyance system designed to move air at high velocity to pull debris through the system for one pass pickup and elimination of plugging. The following are system components:

- a) **Blower** - The sweeper **shall** be equipped with a blower fan rated to produce a minimum of 560 m³/min (20,000 cfm), which creates pressure in the suction nozzle and vacuum in the hopper. The blower **shall**^(E):
 - i. Be fully balanced, for longevity of the fan and bearing life;
 - ii. Be a high velocity, closed face design;
 - iii. Be turbine type, constructed of abrasion resistant material;
 - iv. Be rated by an independent test facility;
 - v. Be powered by a V groove power belt, with tension adjustment not requiring repositioning of the engine; and
 - vi. Be mounted on heavy duty bearings, which are re-greased from ground level without tilting the hopper.
- b) **Blower Housing** - The sweeper **shall** be equipped with a blower housing. The blower housing **shall**^(E):

- i. Be constructed of material and lined with material to provide abrasion resistance for maximum extended wear in abrasive environments;
 - ii. Be mounted to provide access to an inspection door without tilting the hopper; and
 - iii. Not be directly attached to the hopper.
- c) Suction Nozzle - The sweeper **shall** be equipped with a suction nozzle with a minimum pick-up area of 174 sq/inches, and a minimum nozzle width of 762 mm (30 inches). The suction nozzle **shall**^(E):
- i. Be positioned just above the sweeping surface;
 - ii. Be attached to the suction hose with a quick disconnect coupling, not requiring any tools, to allow easy access to the nozzle and suction hose for inspection and cleaning when obstructions occur. The quick disconnect **shall** be accessible without tilting the hopper;
 - iii. Be constructed of abrasion resistant steel for longer life in an abrasive environment;
 - iv. Have a replaceable wear edge for running against the curb;
 - v. Be positioned beyond the wheel track for increased performance closer to the curb and improved visibility from the cab;
 - vi. Ride on a minimum of two heavy duty pivoting caster wheels, allowing the nozzle to move sideways, improving the ability to stay in the debris path, and follow road contours; and
 - vii. Be equipped with a front mounted independently replaceable shutter, to allow easy entry of large objects or large volumes of debris.
- d) Suction Hose - The sweeper **shall** be equipped with a suction hose attached to the suction nozzle, with a minimum inside diameter of 279 mm (11 inches), to allow the passage of large objects and volumes of debris. The suction hose **shall**^(E) be equipped with an automatically activated self clearing jackknife style gate valve at the top of the hose, at the entry of the hopper, to prevent debris from falling back down to the nozzle when the vacuum is stopped, or when the sweeper is travelling.
- e) Wandering Hose - The sweeper **shall** be equipped with a wandering hose with a minimum diameter of 203mm (8 inches). The hose movement **shall**^(E) be hydraulic boom assisted with power up/down controls. A minimum of two extension tubes **shall** be supplied and stored in an on-board storage.

3.15.3 **Trailing Arm Side Broom** - The sweeper **shall** be equipped with a trailing arm type side broom on the right side. The side broom **shall**:

- a) Have a sweeping path which sweeps toward the suction nozzle;
- b) Have a minimum diameter of 913 mm (36 inches);
- c) Be equipped with side broom controls, readily accessible to the operator in the cab, for:
 - i. Raising
 - ii. Lowering
 - iii. Tilting
 - iv. Positioning (inward/outward, forward/backward); and
 - v. Rotational speed control;
- d) Have a mechanism to prevent impact damage;
- e) Be supported in the storage position by a transport hook;
- f) Retract with the bristle tips unexposed, for safety; and
- g) Have replaceable sections of tempered steel wire bristles.

3.15.4 **Extension Broom** - The sweeper **shall** be equipped with a pivoting extension broom. The extension broom **shall**:

- a) Have a minimum diameter of 406mm (16 inches);
- b) Have a minimum length of 1.3 meters (54 inches);
- c) Be hydraulically driven, operating at an angle which directs material toward the suction nozzle;
- d) Have down pressure adjustment controls located outside of the cab, allowing the operator to see the broom while operating the control;
- e) Have lift controls mounted on the control panel in the cab;
- f) Stop rotation and automatically lift when the sweeper is in reverse or transport mode;
- g) Have polypropylene bristles; and
- h) Be disposable and reversible.

3.15.5 **Hopper** - The sweeper **shall** be equipped with a self-elevating dumping hopper. The hopper **shall**:

- a) Have a capacity of at least 6 cubic metres (8 cu yd);
- b) Be loaded evenly and efficiently to maximize the available capacity;

- c) Have a weight actuated full load indicator in the cab within full view of the seated operator;
- d) Have a raised hopper indicator in the cab within full view of the seated operator;
- e) Be equipped with a dust separator, and accessible, easy clean dust screens;
- f) Have a hydraulic dumping system elevating the hopper on a minimum 50 degree angle, and performing a complete removal of the collected debris;
- g) Be equipped with a top hinged rear door, which opens a minimum of 90 degrees for optimal dumping. The rear door **shall**^(E):
 - i. Have an external door prop for safety;
 - ii. Be equipped with an automatic lock mechanism for tight sealing between the hopper and rear door; and
 - iii. Have a heavy duty reinforced D style rubber seal.
- h) Have dumping controls located both in the cab and on the curb-side of the cab, allowing the operator to see the debris while dumping, for safety; and
- i) Be equipped with a smooth polyurethane liner, designed to protect against wear and corrosion, without interfering with dumping and clean-up (Lifeline or equivalent).

3.15.6 **Water System** - The sweeper **shall** be equipped with a water spray system. The water system **shall**^(E):

- a) Direct water spray at the side broom through a minimum of 2 nozzles, to reduce dust stirred up;
- b) Direct water spray at the extension broom through a minimum of 4 rubber mounted quick disconnect nozzles, to reduce dust stirred up;
- c) Direct water spray through a minimum of 5 nozzles inside of the suction nozzle, to prevent wear and clogging;
- d) Direct water spray through inside of the wandering hose nozzle, to prevent wear and clogging;
- e) Direct water spray through a minimum of 4 corrosion resistant nozzles mounted under the vehicle front bumper, to assist in wetting down debris under extremely dusty conditions;
- f) Have polyethylene water tank(s) with a minimum combined capacity of 1200 litres, which are frame mounted and do not raise during hopper dumping;

- g) Have a hydrant fill kit equipped with quick connect couplings, a filler hose and a dedicated onboard storage location;
- h) Have a deluge system which directs pressured water from a hydrant into nozzles on the rear door for easy cleaning of the entire hopper. The hydrant connection **shall** be through the standard water filler hose and quick connect coupling;
- i) Have an on/off and variable flow controls readily accessible to the operator in the cab;
- j) Be equipped with an anti-siphon device to prevent water supply contamination;
- k) Have sufficient water drain devices to permit the complete draining of the water spray system components;
- l) Be complete with all components required to operate and maintain the system, including water filter, pumps, and ball valve; and
- m) Have a level gauge visible from the operator's position.

3.15.7 **Hydraulic System** - The hydraulic system **shall** be complete with all components required for the operation of the hydraulic equipment specified, including pump, reservoir, filters and control valves. The system **shall**^(E):

- a) If required, have an oil cooler to maintain oil temperature within operating limits under specified conditions;
- b) Have filter elements that are sized in accordance with the pump manufactures recommendations and are readily accessible for removal and replacement, without tilting the hopper;
- c) Change indicators installed for the filter elements;
- d) Have a minimum hose burst pressure of not less than two times the maximum operating pressure;
- e) Have hoses supported and secured in an orderly arrangement, and properly marked for identification;
- f) Have a readily visible oil level gauge;
- g) Include clearly marked test ports, at locations in the hydraulic system required for diagnostics or adjustment procedures. A hydraulic pressure test gauge and applicable fittings/hoses **shall** be provided with each vehicle;
- h) Have hydraulic cylinders with nitrated or chrome plated piston rods; and
- i) Include a maintenance free direct gear pump directly driven from the auxiliary engine.

3.15.8 **Pneumatic System** - The pneumatic system **shall** be complete with all components required for the operation of the pneumatic equipment specified, including dedicated air tank, filter, cylinders, and control valves. The air lines **shall** be colour coded and marked with function for ease of maintenance.

3.15.9 **Sweeper Electrical System** - The sweeper system **shall** be equipped with a 12-volt electrical system, separate from the chassis electrical system. The system **shall** include:

- a) Wire identification (colour coded/function), weatherproof connectors, protective loom and secure fastening;
- b) Maintenance free batteries, in an accessible well protected location, mounting **shall**^(E) include heat shielding if necessary, proper hold-downs, and sealed/vented if the location is near the occupants;
- c) An alternator, with voltage output compatible with the specific battery type, IAW the manufacturer's specifications;
- d) An audible back-up alarm to alert personnel that the vehicle transmission is in reverse;
- e) Wiring protected by insulating grommets where passing through metal; and
- f) SAE approved fuses or circuit breakers with trip indicators protecting all circuits.

3.15.10 **General Equipment**

- a) A spare complete side broom **shall** be delivered with each vehicle.
- b) A spare extension broom **shall** be delivered with each vehicle.
- c) A standard tool box or compartment fitted with a hasp and/or lock for securing any tools required for servicing the sweeper **shall** be delivered with each vehicle.

3.16 **Lubricants** - The vehicle **shall**^(E) be delivered with the manufacturer's standard lubricants and hydraulic fluids. The vehicle **shall**^(E) be equipped with an auto-lubrication system servicing the maximum number of grease points on the sweeper. The grease reservoir **shall** be full when vehicle is delivered.

3.17 **Lubrication Fittings** - Lubrication fittings **shall**^(E) conform to requirements of SAE Standard J534.

3.18 **Paint**

- a) All paint **shall** be applied in accordance with the technical data provided by the product manufacturer. As a minimum, the coating process must yield a durable finish with a smooth appearance free of runs, sags, and orange peel.

- b) The Vehicle **shall** be painted with the manufacturer's standard colour(s).

3.19 Identification - The manufacturer's name, model number, model year, and manufacturer's serial number **shall**^(E) be permanently marked on the vehicle in a conspicuous and protected location.

3.20 Warning and Instruction Plates - International symbols and/or bilingual markings **shall** be provided for all identification, instructional, and warning labels. The following items **shall**^(E) be provided:

- a) Instructions detailing operation of the engine, transmission and attachments, permanently attached in appropriate location(s).

4. INTEGRATED LOGISTIC SUPPORT

4.1 Documentation and Support Items

4.1.1 **Items with Each Vehicle** - The Contractor **shall** provide the following items with each vehicle:

- a) **Warranty Letter** - A paper copy of the completed bilingual Warranty Letter with each vehicle shipped in DND format, the template will be provided by the Technical Authority. Designated warranty providers **shall** honour the warranty letter.

- b) **Vehicle Manuals** - The vehicle **shall** be provided with all manuals required for the safe operation, maintenance and repair of the vehicles and all sub-systems, attachments, components and accessories included in the vehicle supplied. The following manuals **shall** be provided:

- i **Operator's Manuals** - Operator's Manuals **shall** be provided in a bilingual format or as 2 manuals in a single binder (one English, one French). Operators' Manual(s) **shall** be supplied in paper format. The Operator's Manual **shall** include:

1. Instructions for the safe operation of the vehicle;
2. Daily operator maintenance instructions/checks (including lubrication);
3. Safety warnings: and
4. Hand signals (as necessary).

- ii **Parts Manuals** - The Parts Manuals **shall** be in English. The Parts Manuals **shall** include:

1. Illustrations showing all components of the vehicle including equipment and accessories from other manufacturers that is supplied for the requirements of the contract. The illustrations **shall** have numbers for the itemization of the parts;

2. A listing for all itemized manufacturer's parts showing the manufacturer's part number of the illustration, the part name and a brief description of the item; and
 3. Cross reference relating the manufacturer part number to the correct figure and item number.
- iii **Maintenance (Shop Repair) Manuals** - The Maintenance (Shop Repair) Manual **shall** be in English (French translation is desirable). The Maintenance (Shop Repair) Manuals **shall** include:
1. A trouble shooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of what steps would be required to correct a problem;
 2. A listing of the necessary tolerances, torque levels, fluid volumes required and a section listing any special tools (including item part numbers); and
 3. Information on the order of disassembly and assembly of the systems and components of the vehicle.
- iv **Manuals on CD/DVD-ROM** - A copy of the manuals on CD/DVD-ROM **shall** be provided. This **shall** include all the manuals provided in clauses i, ii, and iii above. For usability, CD/DVD-ROM **shall not** require password and/or internet connection to be accessed. Operator's manuals **shall** also be supplied in paper format.

4.1.2 **Documents Provided to Technical Authority** - The Contractor **shall** provide the following documents to the Technical Authority:

- a) **Sample Manuals** - The Contractor **shall** deliver a set of sample manuals to the Technical Authority including all documents in items i through iv above. Sample manuals will not be returned. In the event that manuals are dependent on the first vehicle completion, sample manuals **shall** be submitted within 30 days following the pre-production vehicle approval or first production vehicle inspection. The Crown will provide approval or comments on the manuals within 30 days.
- b) **Data Summary** - A bilingual Data Summary for each make/model/ configuration by completing Technical Authority's template with data and a vehicle picture. The Contractor **shall** provide a Data Summary, if possible, before shipment of vehicles;
- c) **Photographs** - Two (2) digital pictures, one left-front three-quarter view, and one right-rear three-quarter view of each make/model/ configuration. It is preferred that pictures have an uncluttered background. Pictures **shall** have a size of at least 4 Mega pixels;

- d) **Special Tools List** - The Contractor **shall** provide a list detailing the special tools required for the vehicle that would not be included in a mechanics toolbox. This would include items such as special wrenches, or extraction devices and special diagnostic tools;
- e) **Preventive Maintenance Replacement Parts Kit List (PMRPKL)** - A list detailing the parts that are required to perform preventive maintenance to the system for a period of 12 months. Components such as filters, belts, hoses, and fuses **shall** be included. The Preventive Maintenance Replacement Parts Kit List **shall**:
- i Include the following information:
 - 1. Item name;
 - 2. Contractor's part number
 - 3. Manufacturer's part number;
 - 4. Manufacturer's NATO Supply code (NCAGE) or name and address;
 - 5. NSN (NATO Stock Number) (if known);
 - 6. Quantity per equipment;
 - 7. Quantity recommended;
 - 8. Unit price; and
 - 9. Unit of issue.
 - ii Be delivered to the Technical Authority. The list **shall** be supplied in an editable electronic format, preferably as a spreadsheet.
- f) **Warranty Letter** - The Contractor **shall** send an electronic copy of the Warranty Letter, to the Technical Authority for each vehicle, at shipment.
- g) **Safety Recalls and Servicing Data** - Safety recalls, and manufacturer's technical service bulletins, or equivalent **shall** be provided to the technical authority and the final delivery locations on a continuing basis, throughout the life expectancy of the vehicle or for no less than 10 years.

NOTE: This service can be made available as an Internet Service.

4.2 Training

4.2.1 **Operator** - The Contractor **shall** provide an operator training course. The course **shall** be given at the delivery destination for a minimum duration of one (1) days to provide training for up to six (6) DND operators. The final dates **shall** be arranged with the Technical Authority (TA). After completion of the course the Contractor **shall**

have a "PROOF OF OPERATOR TRAINING" certificate signed by a Crown Representative for the destination. The Technical Authority will supply this document in an electronic format. The course curriculum **shall** include:

- a) Safety precautions to be observed while operating and servicing the vehicle;
- b) Vehicle/equipment operating characteristics;
- c) Vehicle/equipment operating procedures;
- d) Pre-operating and pre-shutdown procedures;
- e) Daily/weekly operator servicing procedures; and
- f) A minimum of one (1) hours practical operating experience per operator.

4.2.2 **Maintenance** - The Contractor **shall** provide at least a one (1) day maintenance/repair training course for up to eight (8) DND maintenance personnel at each delivery location. After completion of the training session the Contractor **shall** have a "PROOF OF MAINTENANCE TRAINING" certificate signed by the consignee. The Technical Authority will supply this document in electronic format. The following **shall** be included in the course curriculum:

- a) Operation and maintenance safety precautions;
- b) Preventive maintenance including servicing schedules (10 % of classroom time);
- c) Trouble shooting, testing and adjustments (70 % of classroom time); and
- d) Special tools and test equipment.

Note: Training **shall** be available in both official languages for bases located in the province of Quebec and when requested by DND.



SWEeper, STREET, TRUCK MOUNTED
2.4 METRE SWEEPING PATH, VACUUM PICK-UP
ECC 166330

TECHNICAL INFORMATION QUESTIONNAIRE

This questionnaire covers technical information, which **shall** be provided for evaluation of the configuration(s) of the vehicle(s) offered.

Where the specification paragraphs below indicate "Proof of Compliance", the "Proof of Compliance" **shall** be provided for each performance requirement/specification.

Bidders should indicate the requested information and indicate the document name/title and page number where the Proof of Compliance can be found.

CONTRACTOR INFORMATION

Contractor Name _____

Proposal Date _____

Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES NO

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

**SWEEPER, STREET, TRUCK MOUNTED
2.4 METRE SWEEPING PATH, VACUUM PICK-UP
ECC 166330**

TECHNICAL INFORMATION QUESTIONNAIRE

Sweeper: Make _____ **- Model** _____

Cab/Chassis: Make _____ **- Model** _____

PURCHASE DESCRIPTION PARAGRAPHS

3.3.1 b) PM₁₀ - Proof of Compliance

PM₁₀ compliance IAW Rule 1186 can be found in:
Document: _____ Page: _____.

3.4 Vehicle Performance - Proof of Compliance

	Found in Document Name/Title	Page Number
3.4 a)		
3.4 b)		
3.4 f)		

3.4.1 Weights and Dimensions - Proof of Compliance

Front axle weight (fully loaded) _____ , GAWR (front) _____.

Rear axle weight (fully loaded) _____ , GAWR (rear) _____.

Axle ratings can be found in:
Document: _____ Page: _____.

3.6 Transport Engine - Proof of Compliance

Transport Engine information can be found in:
Document: _____ Page: _____.

3.6.2 Fuel Tanks

Fuel Tank Quantity: _____.

Fuel Tank Capacity (each): _____.

3.7 Transmission - Proof of Compliance

Transmission information can be found in:
Document: _____ Page: _____.

3.8 Braking System - Proof of Compliance

Braking System information can be found in:
Document: _____ Page: _____.

3.9 Steering - Proof of Compliance

Steering System information can be found in:
Document: _____ Page: _____.

3.10 Wheels, rims and tires - Proof of Compliance

Wheel type and size _____.

Front Tires: Make/Model _____ size _____.

Rear Tires: Make/Model _____ size _____.

Wheel, rim, and tire information can be found in:
Document: _____ Page: _____.

3.15.1 Auxiliary Engine - Proof of Compliance

Auxiliary Engine information can be found in:
Document: _____ Page: _____.

3.15.2 a) Blower - Proof of Compliance

Blower information can be found in:
Document: _____ Page: _____.

3.15.2 c) Suction Nozzle - Proof of Compliance

Suction Nozzle information can be found in:
Document: _____ Page: _____.

3.15.2 d) Suction Hose - Proof of Compliance

Suction Hose information can be found in:
Document: _____ Page: _____.

3.15.2 e) Wandering Hose - Proof of Compliance

Wandering Hose information can be found in:
Document: _____ Page: _____.

3.15.3 Trailing Arm Side Broom - Proof of Compliance

Broom Diameter: _____.

Trailing Arm Side Broom information can be found in:
Document: _____ Page: _____.

3.15.4 Extension Broom - Proof of Compliance

Broom Diameter: _____.

Broom Length: _____.

Extension broom information can be found in:
Document: _____ Page: _____.

3.15.5 Hopper - Proof of Compliance

Capacity (volume): _____.

Hopper information can be found in:
Document: _____ Page: _____.

3.15.6 Water System - Proof of Compliance

Water System information can be found in:
Document: _____ Page: _____.

3.16 Lubricants - Proof of Compliance

Auto-lubrication System information can be found in:
Document: _____ Page: _____.

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- a) "Equivalent" - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance.

- b) "Proof of Compliance" - An unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document **shall** provide detailed information on each performance requirement and/or specification. Where a document submitted as Proof of Compliance does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications **shall** be provided. The certificate **shall** detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.