

**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**

<b>Title - Sujet</b> 40 Cu Yd Front Load Refuse Truck	
<b>Solicitation No. - N° de l'invitation</b> 21120-149441/A	<b>Date</b> 2014-02-25
<b>Client Reference No. - N° de référence du client</b> 21120-149441	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HP-916-64744	
<b>File No. - N° de dossier</b> hp916.21120-149441	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2014-04-09</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Paravan, Tony	<b>Buyer Id - Id de l'acheteur</b> hp916
<b>Telephone No. - N° de téléphone</b> (819) 956-3963 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  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**  
Vehicles & Industrial Products Division  
11 Laurier St./11, rue Laurier  
7A2, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

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



Destination Code - Code destinataire	Destination Address - Adresse de la destination	Invoice Code - Code bur.-comptable	Invoice Address - Adresse de facturation
D - 1	CORRECTIONAL SERVICE CANADA COLLINS BAY INSTITUTION 1455 BATH ROAD P.O. BOX 190 KINGSTON, ONTARIO K7L 4V9	21120	CORRECTIONAL SERVICE OF CANADA 340 LAURIER AVE W. ATTN: DAN FITZPATRICK OTTAWA Ontario K1A0P9 Canada

Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM Destination	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	<p>40 Cu Yd Front Load Refuse Truck</p> <ul style="list-style-type: none"> <li>The Contractor must deliver with the vehicle/equipment, the operator, maintenance and parts manuals and a line setting ticket describing the components and options on the cab and chassis. The following must be sent to the Design Authority; safety recalls and technical service bulletins, brochures, replacement parts information and details on warranty, including all separate component warranties. In accordance with the attached Annex ``A`` - Purchase Description For 40 Cu Yd Front Load Refuse Truck, dated 07 February 2014.</li> </ul>	D - 1	21120	1	Each	\$		See Herein	

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Solicitation No. - N° de l'invitation

21120-149441/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

hp916

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

21120-149441

File No. - N° du dossier

hp91621120-149441

CCC No./N° CCC - FMS No/ N° VME

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Annex "A" - Correctional Service Canada - Purchase Description - 40 Cu Yd Front Load Refuse Truck, dated 07 February 2014;

Appendix 1- Technical Information Questionnaire - 40 Cu Yd Front Load Refuse Truck, dated 18 February 2014.

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with this Bid solicitation.

### **2. Requirement**

Correctional Service Canada requires the vehicle as detailed herein, in accordance with Annex "A" - Correctional Service Canada - Purchase Description - 40 Cu Yd Front Load Refuse Truck, dated 07 February 2014 attached hereto.

### **3. Debriefings**

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.

### **4. Interpretation**

The mandatory requirements stated in this Request for Proposal use the words "must" or "mandatory". Proposals not meeting all of the mandatory requirements will be given no further consideration.

## **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 (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) Manual issued by Public Works and Government Services Canada.

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

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

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

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**Delete:** sixty (60) days

**Insert:** ninety (90) days

## **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. 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

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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:

- Offerors / suppliers are requested to provide all correspondence including (but not limited to) documents, reports and invoices in electronic format unless otherwise specified by the Contracting Authority or Project Authority, thereby reducing printed material.
- Offerors / suppliers 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.

## **6. Improvement of Requirement During Solicitation Period**

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least **seven (7)** calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **1. Bid Preparation Instructions**

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

Section I: Technical Bid ( 2 hard copies)

Section II: Financial Bid ( 1 hard copy)

Section III: Certifications and 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 and
- (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 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.

## **2. 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 must complete and submit by the bid closing date and time the following;

- 1) Appendix 1 - Technical Information Questionnaire - 40 Cu Yd Front Load Refuse Truck, dated 18 February 2014.

### **2.1 Equivalent Products**

- 2.1.1 Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:
  - (a) designates the brand name, model and/or part number of the substitute product;
  - (b) states that the substitute product is fully interchangeable with the item specified;
  - (c) provides complete specifications and descriptive literature for each substitute product;
  - (d) provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and

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- (e) clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.
- 2.1.2 Products offered as equivalent in form, fit, function and quality will not be considered if:
- (a) the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
- (b) the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.
- 2.1.3 Offerors / suppliers are encouraged to offer or suggest green solutions whenever possible.
- 2.1.4 In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

### **3. Section II: Financial Bid**

The Bidders must submit their prices in the "Line item Detail" and in accordance with the Basis of Payment identified in **Part 6 - RESULTING CONTRACT CLAUSES**, at **Clause 6.1 Basis of Payment**.

#### **3.1 Exchange Rate Fluctuation Risk Mitigation**

- 3.1.1 The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form PWGSC-TPSGC 450 , Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
- 3.1.2 The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.

3.1.3 The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).

3.1.4 At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450, for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.

3.1.5 Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

#### **4. Section III: Certifications and Additional Information**

Bidders must submit the certifications required under **PART 5 - CERTIFICATIONS**.

##### **4.1 Additional Information**

Canada requests that bidders submit the following information:

###### **4.1.1 Delivery**

While delivery of the 40 Cu Yd Front Load Refuse Truck is desirable by 15 July 2014 \_\_\_\_\_, the best delivery that can be offered is as follows:

Item 001 – Qty 1 - 40 Cu Yd Front Load Refuse Truck will be delivered within \_\_\_\_ calendar days from the effective date of the contract

###### **4.1.2 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.

### **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

#### **1. Evaluation Procedures**

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

1.2 An evaluation team composed of representatives of Canada will evaluate the bids.

## 2. Technical Evaluation

2.1 The purpose of the technical evaluation is to determine if the goods and/or services offered meet all mandatory technical requirements outlined in the documents enumerated hereafter and as required in Section I - Technical Bid of Part 3 - BID PREPARATION INSTRUCTIONS:

- 1) Annex "A"- Correctional Service Canada - Purchase Description - 40 Cu Yd Front Load Refuse Truck, dated 07 February 2014.

## 3. Financial Evaluation

3.1 The purpose of the financial evaluation is to determine the lowest price using the information submitted in "Line item Detail"

3.2 Bids will be evaluated on an aggregate price basis for the item(s) and quantitie(s).

## 4. Basis of Selection

4.1 A bid must comply with the requirements of the bid solicitation and meet all mandatory requirements 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

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## 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 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\\_equality/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equality/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.

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## **PART 6 - RESULTING CONTRACT CLAUSES**

### **1. Security Requirement**

There is no security requirement applicable to this contract.

### **2. Requirement**

The Contractor must deliver Qty 1, 40 Cu Yd Front Load Refuse Truck in accordance with Annex "A" - Correctional Service Canada - Purchase Description - 40 Cu Yd Front Load Refuse Truck, dated 07 February 2014;

### **3. Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) Manual issued by Public Works and Government Services Canada.

#### **3.1 General Conditions**

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

### **4. Term of Contract**

#### **4.1 Delivery of Vehicle/Equipment**

Delivery of the vehicles must be made as follows:

Item 001 - 40 Cu Yd Front Load Refuse Truck must be delivered on or before

\_\_\_\_\_  
(Date to be inserted by PWGSC at time of contract award.)

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Tony Paravan  
Title: Supply Specialist

Solicitation No. - N° de l'invitation  
21120-149441/A

Amd. No. - N° de la modif.  
hp916

Buyer ID - Id de l'acheteur  
hp916

Client Ref. No. - N° de réf. du client  
21120-149441

File No. - N° du dossier  
hp91621120-149441

CCC No./N° CCC - FMS No/ N° VME

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Organization: Public Works and Government Services Canada - Acquisitions  
Branch: LEFT Directorate, HP Division,  
7A2, Place du Portage, Phase 3, 11 Laurier Street, Gatineau  
Quebec, K1A 0S5  
Telephone: 819 956-3963  
Facsimile: 819 953-2953  
E-mail: tony.paravan@pwgsc-tpsgc.gc.ca

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

## 5.2 Procurement Authority

The Procurement Authority for the Contract is:

Name: \_\_\_\_\_ (To be inserted by PWGSC at time of contract award.)  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
E-mail: \_\_\_\_\_

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: (If applicable)

The Technical Authority for the Contract is:

Name: \_\_\_\_\_ (To be inserted by PWGSC at time of contract award.)

Title: \_\_\_\_\_  
 Organization: \_\_\_\_\_  
 Address \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 E-mail: \_\_\_\_\_

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

#### 5.4 Contractor's Representative

Name and telephone number of the person responsible for :

##### General enquiries

Name: \_\_\_\_\_ (To be completed by the bidder.)  
 Title: \_\_\_\_\_  
 Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 E-mail: \_\_\_\_\_

##### Delivery follow-up

Name: \_\_\_\_\_ (To be completed by the bidder.)  
 Title: \_\_\_\_\_  
 Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 E-mail: \_\_\_\_\_

## 5.5 After Sales Service

5.5.1 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:

### Item 001

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

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

## 6. Payment

### 6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of their obligations under the Contract, the Contractor will be paid firm unit 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.

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

### 6.2 SACC Manual Clauses

H1000C Single Payment 2008-05-12

### 6.3 Exchange Rate Fluctuation Adjustment

6.3.1 The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.

6.3.2 For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such

items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.

- 6.3.3 The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:

$$\text{Adjustment} = FCC \times Qty \times (i_1 - i_0) / i_0$$

where formula variables correspond to:

FCC Foreign Currency Component (per unit)

$i_0$

Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

$i_1$

exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

Qty quantity of units

- 6.3.4 The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date.
- 6.3.5 For goods, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the noon rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the noon rate on the date the payment was due. The most recent noon rate will be used for non-business days.
- 6.3.6 The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450, Claim for Exchange Rate Adjustments.
- 6.3.7 The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450 (i.e.  $[i_1 - i_0] / i_0$ ).

6.3.8 Canada reserves the right to audit any revision to costs and prices under this clause.

## 7. Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed. Offerors / suppliers are requested to provide invoices in electronic format unless otherwise specified by the Contracting Authority or Project Authority, thereby reducing printed material.

Invoices must be distributed as follows:

- 1) The original and one copy of the Contractor's own invoice must be forwarded by mail to:  
(Insert invoicing address as per requisition):

Name: \_\_\_\_\_ (To be inserted by PWGSC at time of contract award.)

Title: \_\_\_\_\_

Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_

Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_

E-mail: \_\_\_\_\_

- 2) One copy of all invoices to the PWGSC Contracting Authority.

## 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.

## 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 general conditions 2010A (2013-04-25) General Conditions - Goods (MediumComplexity);
- (c) Annex "A" - Correctional Service Canada - Purchase Description - 40 Cu Yd Front Load Refuse Truck, dated 07 February 2014;
- (d) Appendix 1- Technical Information Questionnaire - 40 Cu Yd Front Load Refuse Truck, dated 18 February 2014;
- (e) the Contractor's bid dated \_\_\_\_\_.

## 11. SACC Manual Clauses

The following clauses set out in the SACC Manual must form part of this Contract:

A1009C	Work Site Access	2008-05-12
A9049C	Vehicle Safety	2011-05-16
B1505C	Shipment of Hazardous Materials	2006-06-16
G1005C	Insurance	2008-05-12

## 12. Inspection and Acceptance

The Technical Authority 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 representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work 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

The vehicle / equipment must 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 Library and Archives Canada personnel at the final delivery location.

The fuel tanks must be at least half full prior to release of the vehicle(s) to Library and Archives Canada personnel.

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Any attempt by the carrier to deliver vehicles will be refused unless arrangements have been made for authorized, qualified personnel to be available to perform inspections and to accept the delivery. 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 additional costs.

#### **14. Shipping Instructions - Delivery at Destination**

The Contractor must ship the goods prepaid DDP - Delivered Duty Paid, Kingston, ON. 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 taxes.

Item 001 - the contact person for delivery is: \_\_\_\_\_ (to be inserted by PWGSC at time of contract award).

#### **15. Post-Contract Award Meeting/Pre-Production Meeting**

Within ten (10) working days of the receipt of the contract, the Contractor must contact the Technical Authority to determine the details of a pre-production meeting. The meeting will be held at the Contractor's plant \_\_\_\_\_ (specify location). Cost of holding such pre-production meeting must be included in the price of the bid. Please note that the travel and living expenses for Government Personnel will be arranged and paid for by the Crown.

#### **16. Material**

Material supplied must be new, unused and of current production by manufacturer (2014 model-year or newer).

#### **17. Spare Part Availability**

The contractor must ensure that spare parts required to properly maintain and repair the complete vehicle covered by this specification will be available for purchase by Library and Archives Canada, or its authorized agents, for a period of **10** years.

#### **18. Packaging**

The methods used for preservation and packaging must be in conformity with the contractor's normal standard for domestic shipment or, if necessary, with standards for overseas shipment (as below deck cargo).

Solicitation No. - N° de l'invitation

21120-149441/A

Amd. No. - N° de la modif.

File No. - N° du dossier

hp91621120-149441

Buyer ID - Id de l'acheteur

hp916

CCC No./N° CCC - FMS No/ N° VME

21120-149441

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## 19. Warranty

The manufacturer's standard warranty of **(to be inserted by PWGSC at time of contract award)**(\_\_\_\_\_ months or \_\_\_\_\_ km) as administered through the designated dealer or authorized agent apply.

**Annex “A” Purchase Description For 40 Cu Yd, Front Load Refuse Truck For  
Correctional Service Canada**

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February 7, 2014.

**1. SCOPE**

- 1.1. **Scope** This purchase description describes the requirements for a diesel powered 6X4 cab and chassis, complete with a full eject, 40 cubic yard, front end loader, refuse system.
- 1.2. **Instructions** The following instructions and definitions apply to the interpretation of this Purchase description.
  - 1.2.1. Mandatory requirements are identified by the word “must”. Deviations will not be permitted (Manufacturer’s suggested options that enhance specified performance may be submitted, however, these will not be considered during proposal evaluation and/or contract award.)
  - 1.2.2. In this document “provided” must mean “provided and installed”.
  - 1.2.3. When a standard or specification is required and the bidder offers an equivalent, that equivalent standard must be provided upon demand.
  - 1.2.4. Where equipment certification is required, it is requested that the bidder provide the certification document with the bid. If certification is not available at bid closing, the certification document must be made available to the Design Authority prior to equipment delivery.
  - 1.2.5. The term Design Authority is defined as the government appointed agent responsible for technical management of this requirement. The design authority is the Correctional Service Canada, Regional Fleet Manager.
  - 1.2.6. The term “Design Authority approved equivalent” is defined as an alternative standard, design feature, or component which is evaluated by the Design Authority and is determined to meet the specified requirements for form, fit, function and performance as applicable.
  - 1.2.7. Prior to contract award, any question relating to technical interpretation of this purchase description must be referred to Public Works and Government Services Canada.
- 1.3. **Technical Information Appendix(s)** The following applies:
  - 1.3.1. The bidder must complete Appendix 1 Technical Information Questionnaire for the vehicle capacity/model offered. Failure to provide any requested brochures, performance analysis, drawings, curves or tables will render the proposal non-compliant.

## **2. REQUIREMENTS**

- 2.1. Standard design The vehicle design:
- 2.1.1. **Must** be manufacturer’s latest model (2013 or newer). The vehicle **must** be “new” as opposed to “used”. Every effort **must** be made to maintain the same Make, and Model year.
  - 2.1.2. **Must** have demonstrated industry acceptability by having been manufactured, marketed and sold commercially.
  - 2.1.3. **Must** have been proven in service for at least 1 year; or, have objective evidence, from a proven manufacturer (at least 5 years in industry) of recently introduced equipment’s capability to satisfy performance requirements, submitted with the bid.
  - 2.1.4. **Must** conform to all applicable laws, regulations and industry standards governing manufacture, safety, noise levels and pollution in effect in Canada at time of sale.
  - 2.1.5. System and component capacities **must** not be increased above published ratings.
  - 2.1.6. Must include all components, equipment and accessories normally supplied for this application, although they may not be specifically described in this purchase description.
  - 2.1.7. May include normal product improvements during a one-year period.
- 2.2. **Operating Conditions** The vehicle, under all load conditions, **must** operate as follows without degradation in performance, reliability and maintainability:
- 2.2.1. The vehicle **must** operate safely and efficiently on paved roads, gravel roads, dirt roads with severe washboard and potholes and off-road terrain. Off-road conditions are defined as refuse dumps and dirt tracks. The vehicle will also operate in areas with severe grades and switchback turns. Conditions include year round operation on snow, mud and ice.
  - 2.2.2. The vehicle **must** operate safely and efficiently in the temperature range of -40°C to 37°C (-40°F to 98°F).
  - 2.2.3. The vehicle **must** operate safely and efficiently within the GVWR/GCWR specified under all the operating conditions specified.
- 2.3. **Vehicle Safety Regulations** The vehicle **must** meet the provisions of the Canadian Motor Vehicle Safety Act and the regulations made there under, in effect on the date of sale of the vehicle.
- 2.4. **Human Engineering and Safety** The following applies:
- 2.4.1. Entry and exit points **must** be equipped with handles and steps suitably positioned where required.
  - 2.4.2. Safety features such as warning and instruction plates, non-slip walking surfaces and heat shields **must** be provided where required for operator safety.
- 2.5. **Maintainability** All maintenance and repair tasks, especially routine operator maintenance, **must** be easy to perform with a minimum of special tools and skills.
- 2.6. **Payload and Weight Rating**
- 2.6.1. **Payload** The cab and chassis truck (including driver, passenger(s), full fuel tank(s)) **must** be capable of transporting, at a minimum, 40 cubic yards of refuse.

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2.7. **Dimensions** The following nominal dimensions must be provided:

- 2.7.1. Wheelbase (WB) – 5,334mm (210 inches)
- 2.7.2. Height in Travel Position – 4,064mm (160 inches)
- 2.7.3. Overall width (OAW) – 2,489mm (98 inches)

2.8. **Performance**

- 2.8.1. **Speed** The loaded vehicle must achieve 100 km/h (62 mph)
- 2.8.2. **Stall Gradability** The loaded vehicle must have a first gear stall gradability of at least 35 per cent.
- 2.8.3. **Gradability** The loaded vehicle must achieve a gradability of at least 1% at 90 km/h (56 mph).

2.9. **Chassis and Power Train Systems**

2.9.1. **Engine Systems** The following must be provided:

- 2.9.1.1. A turbocharged, electronically controlled, heavy duty, diesel engine.
- 2.9.1.2. The engine must be at least 300hp with a minimum of 1,000 foot pounds of torque.
- 2.9.1.3. A fan shroud.

2.9.2. **Cold Weather Starting Aid** The following must be provided:

- 2.9.2.1. An ether injection system with the following features;
  - 2.9.2.1.1. A thermostatically controlled safety shut-off device to prevent the injection of starting fluid into a hot air intake.
  - 2.9.2.1.2. An automatic control, enabling operation only when the starter is engaged
  - 2.9.2.1.3. An easily accessible starting fluid reservoir, changeable without special tools.
  - 2.9.2.1.4. An air intake heater system.

2.9.3. **Block Heater** A 110-volt block heater must be provided, which must have a capacity of at least 1500 watts.

2.9.4. **Cooling System** The following must be provided:

- 2.9.4.1. A viscous or an air-operated on/off, temperature controlled fan.
- 2.9.4.2. Silicone or green stripe II radiator/heater hoses with constant tension spring type hose clamps.
- 2.9.4.3. Antifreeze suitable for the specified operating conditions.

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2.9.5. **Filtration Systems** The following must be provided:

2.9.5.1. A fuel/water separator incorporating a thermostatically controlled heater to prevent freezing

2.9.5.2. A replaceable dry type air filter

2.9.5.3. An in-cab air cleaner restriction indicator

2.9.5.4. Replaceable oil, coolant and fuel filters

2.9.6. **Fuel Tank** The following must be provided:

2.9.6.1. Fuel tank(s) with a capacity of at least 250 Litres.

2.9.6.2. Heavy duty fuel tank-mounting brackets.

2.9.7. **Transmission** The following must be provided:

2.9.7.1. An electronically controlled, fully automatic transmission, which is fully compatible with an electronically controlled diesel engine. The transmission must be a 5 or 6 forward speed Allison HD-4560P or Design Authority approved equivalent.

2.9.7.2. An oil cooler

2.9.7.3. An oil filter

2.9.8. **Steering** Power steering must be provided.

2.9.9. **Brakes** The following must be provided:

2.9.9.1. A four channel anti-lock brake system (ABS)

2.9.9.2. S-Cam type air brakes

2.9.9.3. All drive axles equipped with emergency brake chambers

2.9.9.4. Brake housing dust shields

2.9.9.5. Automatic slack adjusters

2.9.9.6. Front and rear wheel visual brake stroke indicators, which must be a “Stop R” system, or a Design Authority approved equivalent

2.9.9.7. The wet tank capable of being recharged using a glad hand

2.9.9.8. A heated automatic moisture expelling valve

2.9.9.9. An automatic air dryer. The air dryer must be a heated Bendix Model AD 9 or a Design Authority approved equivalent.

2.9.9.10. At a minimum, a .423 cu m/min (15 cfm) compressor

2.9.10. **Tires and Wheels** The following applies:

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- 2.9.10.1. Tubeless steel belted radial tires must be provided.
- 2.9.10.2. The front tires must be 425/65R 22.5 Michelin XZY or Design Authority approved equivalent.
- 2.9.10.3. The front rim size must be 12.25 X 22.5
- 2.9.10.4. The rear tires must be 11R x 22.5 Michelin XDE or Design Authority approved equivalent.
- 2.9.10.5. The rear rim size must be 8.25 x 22.5
- 2.9.10.6. The spare wheel/tire assembly must be interchangeable with a front wheel assembly
- 2.9.10.7. Heavy duty disc wheels must be provided and be equipped for a Hub Pilot system.
- 2.9.10.8. All wheel assemblies including the spare must be balanced to preclude shimmy at all speeds.
- 2.9.11. **Suspension and Axles** The following must be provided:
  - 2.9.11.1. Rubber block, 54” spread Hendrickson HN462
  - 2.9.11.2. Double acting shock absorbers on front axle.
  - 2.9.11.3. Driver controlled full locking differentials with a capacity of at least 20,865 kg (46,000 lbs)
  - 2.9.11.4. A front steering axle with a capacity of at least 9,072 kg (20,000 lbs)
- 2.9.12. **Exhaust System** A vertical stack that clears the packer unit roofline, fitted with exhaust elbow, must be provided.

**2.10. Cab Systems**

- 2.10.1. **Cab Features** the following applies:
  - 2.10.1.1. A Cab Over Engine (COE) must be provided.
  - 2.10.1.2. A power window must be provided in the right hand door and activated from the left driver’s door.
  - 2.10.1.3. One set of two air horns mounted on the same pedestal. Snow shields must be provided if the horns are mounted on the roof of the cab or fully exposed to the elements.
  - 2.10.1.4. Dual, rotating and pivoting interior sun visors must be provided.
  - 2.10.1.5. Mid Grade interior trim must be provided.
  - 2.10.1.6. Cab insulation, dark upholstery, coat hooks, rubber mats as well as padded armrests on both doors must be provided.
  - 2.10.1.7. Tinted glass
- 2.10.2. **Seating** The following must be provided:

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- 2.10.2.1. A low back air suspended driver seat, and a fixed co-driver seat with cloth inserts. The air suspended seat must be operated through the use of push buttons, and the air supplied from the vehicle compressed air system.
- 2.10.2.2. Retractable muster/lap belt assemblies for the driver and passenger.
- 2.10.3. **Mirrors** The following must be provided:
  - 2.10.3.1. Two heavy duty west coast mirrors (right ride motorized), minimum glass area 150mm by 400mm (6 by 16 inches)
  - 2.10.3.2. Replaceable heads or glass
  - 2.10.3.3. Heating elements
  - 2.10.3.4. Two 203mm (8 inch) minimum diameter convex mirrors mounted below the west coast mirror assemblies
- 2.10.4. **Instruments** The following must be provided:
  - 2.10.4.1. A tachometer
  - 2.10.4.2. An odometer
  - 2.10.4.3. A coolant temperature gauge
  - 2.10.4.4. An oil pressure gauge
  - 2.10.4.5. A voltmeter or ammeter
  - 2.10.4.6. A transmission temperature gauge
  - 2.10.4.7. A fuel gauge
  - 2.10.4.8. An Air pressure gauge
- 2.10.5. **Warning Devices** The following must be provided:
  - 2.10.5.1. A warning light for low oil pressure
  - 2.10.5.2. A warning light for high coolant temperature
  - 2.10.5.3. A warning light for differential lockup actuation
  - 2.10.5.4. A warning light for PTO actuation
  - 2.10.5.5. A warning light and buzzer for low air pressure
  - 2.10.5.6. A Back Up alarm
- 2.10.6. **Cab and Chassis Controls** The following must be provided:
  - 2.10.6.1. An AM/FM radio
  - 2.10.6.2. Intermittent windshield wipers

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- 2.10.6.3. Electric windshield washers
- 2.10.6.4. An instant release, electrically operated high idle control. The high idle control must be connected so as to not allow the high idle to engage when the transmission is in gear and the parking brake is released.
- 2.10.7. **In-Cab Refuse Body Controls** The following must be provided and must be protected by circuit breakers:
  - 2.10.7.1. Hydraulic Pump – On/Off switch
  - 2.10.7.2. Arms and Forks – Single lever joystick and air control with air pressure regulator
  - 2.10.7.3. Hopper Cover – Single lever direct air control or electric over air.
  - 2.10.7.4. Tailgate – Single lever direct air control with mechanical lever lockout or electric over air and a warning buzzer for tailgate ajar
  - 2.10.7.5. Auto Pack – Red Stop and Green Start, ON/Off push buttons; Auto and manual selector; Extend and retract manual ram controls; Red Emergency Stop button
  - 2.10.7.6. Manual Pack – Toggle switch and momentary On/Off /On positions
- 2.10.8. **Air Conditioning System** A factory installed, air conditioning system equipped with an environmentally fluid such as R134A must be provided. Must conform to Federal Halo-Carbon Regulations.

**2.11. Electrical System**

- 2.11.1. **Electrical System Features** The following must be provided:
  - 2.11.1.1. A minimum 100 ampere alternator
  - 2.11.1.2. Wiring protected by insulating grommets where passing through metal
  - 2.11.1.3. Electrical circuits protected with fuses, relays or circuit breakers
- 2.11.2. **Batteries** The following must be provided:
  - 2.11.2.1. Heavy-duty maintenance free batteries. Minimum of 4 batteries to be provided.
  - 2.11.2.2. The batteries must have a total capacity of at least 1,850 CCA.
  - 2.11.2.3. Battery shut off switch at battery box.
- 2.11.3. **Lighting** The following must be provided:
  - 2.11.3.1. Halogen headlights. Sealed beams are preferred over replacement bulbs.
  - 2.11.3.2. An interior cab light with door switch.
  - 2.11.3.3. Fog lights inset in the bumper.
  - 2.11.3.4. Lights must be sealed beam type and be mounted in rubber shock proof mounts

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- 2.11.3.5. Two high mounted fixed floodlights to illuminate the rear of the body. The lights must have a nominal dimension of at least 127mm (5 inches) in diameter and be provided with a light switch on the dashboard.
- 2.11.3.6. An amber rotating/strobe light mounted on rear of the body and positioned to be highly visible.
- 2.11.3.7. A packer light with in can switch.
- 2.11.3.8. Dual high mounted back up lights with in-cab switch.

**2.12. Refuse Body and Equipment**

- 2.12.1. **Body** The body must be a Full Eject, 40 cubic yard, front end loader system, and incorporate the following features:
  - 2.12.1.1. Partial lift capability to facilitate limited chassis servicing and repairs, a removable cab protector with foldaway front section, and anti-drip edges.
  - 2.12.1.2. The body must be high strength and wear resistant. All surfaces that come in contact with the refuse must be abrasive resistant and within the hardness range of 400 to 500 Brinell. All other body parts must be fabricated from high strength, steel alloy with minimum 80,000 – 90,000 PSI min yield.
  - 2.12.1.3. The tailgate must have the following features;
    - 2.12.1.3.1. The tailgate must be semi round with a 40 cubic yard capacity and equipped with heavy duty slide type hinges to allow automatic open/close action,
    - 2.12.1.3.2. Be equipped with four bottom and two side locks, a Neoprene gasket which extends a minimum of 28” up each side and held in place by stainless steel removable gasket retainers, and
    - 2.12.1.3.3. Be equipped with stainless steel light boxes, bottom lock supports and seal retainers.
  - 2.12.1.4. The packer/ejector glide track system must be equipped with a long life l, and the hopper floor must be constructed of minimum 5/16 inch AR-425 material.
  - 2.12.1.5. No refuse system hydraulic or electrical system lines under the body
  - 2.12.1.6. All pivots must be sealed to ensure grease retention. The sealed points must allow the system to operate normally for at least 3 months without requiring additional lubrication.
  - 2.12.1.7. The rear of the body must be equipped with a CMVSS approved under ride bumper, and a broom and shovel holder located on the backside of the packer panel.
  - 2.12.1.8. The hopper must have a full length sliding top cover with an integrated wind guard and also, a passenger side access door with ladder for access into the hopper.
- 2.12.2. **Lift Arms** The following applies:
  - 2.12.2.1. The lift arms must have a minimum of 8,000 pound lifting capacity, and be spaced minimum 74 inches apart as measured from the inside of each arm. The arm cylinders must be cushioned for smoother dumping operation.

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2.12.2.2. The arms must incorporate hydraulic line fork cylinder ducting to eliminate the risk of easily damaging external lines.

2.12.3. **Mounting** The front of the refuse body must be capable of being secured to frame brackets through the use of air operated pins or wedges. This feature is required to secure the refuse body to the chassis during transit to and from the refuse collection point(s).

2.12.4. **Hydraulic System** the following applies:

2.12.4.1. The hydraulic system must be powered by an air operated, constant meshed Power take Off (PTO), which powers a Heavy Duty gear type pump which operates with a Tyrone DV 25-450 Dry Valve system or a Design Authority approved equivalent.

2.12.4.2. The hydraulic pump must have a minimum capacity of 40 Gallons Per Minute (GPM) @ 1000 RPM with a maximum rating of 2500 PSI @ 2500 RPM.

2.12.4.3. The hydraulic reservoir must be frame mounted, steel construction and have a capacity of minimum 55 US Gallons, and be equipped with the following features;

2.12.4.3.1. A clean out and inspection port,

2.12.4.3.2. A tank drain and magnetic drain plug,

2.12.4.3.3. An oil level sight gauge,

2.12.4.3.4. A filter breather,

2.12.4.3.5. A ball type shut-off valve,

2.12.4.3.6. A return line diffuser,

2.12.4.3.7. A minimum 100 mesh suction strainer with a minimum 100GPM capacity,

2.12.4.3.8. Dual, 10 micron return line filters with a 100 GPM capacity

2.12.4.4. **The Control Valve** must have a minimum capacity of 75 GPM and be equipped with air actuators, have five circuits, with pressure protection for individual circuits. The control valve must also incorporate the following features;

2.12.4.4.1. Main pressure relief and port relief for hopper doors and arms.

2.12.4.4.2. Pack circuit dump valve with a fast return cycle, and

2.12.4.4.3. Tailgate with check valve and drain fuse to maintain constant closing pressure.

2.12.4.5. **The Hydraulic Lines** must be as follows;

2.12.4.5.1. The steel lines must be seamless hydraulic tubes with impact formed JIC flared connections, and equipped with rubber isolated clamping system, and

2.12.4.5.2. The hydraulic lines must be Super High Pressure two braid hoses with crimp type non-reusable couplings, and be equipped with a nylon guard to prevent chaffing.

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- 2.12.4.6. **The Hydraulic Cylinders** must be heavy duty, manufactured for severe service applications and have an internal gland design. The cylinders must also incorporate the following features;
- 2.12.4.6.1. All shafts and moving parts must be equipped with lubrication fittings,
  - 2.12.4.6.2. The rod seals must include a hi-tech rod wiper, and dual rod seals, one high pressure and one buffer seal,
  - 2.12.4.6.3. The rods must be chromed and hardened to 55 Rockwell, minimum 0.65” deep,
  - 2.12.4.6.4. Glass filled low friction long life wear bands, and
  - 2.12.4.6.5. All cylinders must be equipped with spherical self-aligning bearings at each pivot point to prevent side loading and extend the service life of pivot pins and bushings.
- 2.12.5. **Electrical System** The electrical system must be vapour proof with liquid tight conduit and compression fittings. All other external junction or distribution boxes must be watertight.

**2.13. Miscellaneous Equipment**

- 2.13.1. **Equipment Location** All systems and components must be properly located and/or protected from road hazards such as water, mud and gravel.
- 2.13.2. **Recovery / Tow Points** The following must be provided:
- 2.13.2.1. Front tow hooks or loops positioned and of sufficient strength to permit the recovery of the loaded vehicle.
  - 2.13.2.2. Two rear tow hooks or loops positioned and of sufficient strength to permit the recovery of the loaded vehicle.
- 2.13.3. **License Plate Holders** Front and rear holders must be provided.
- 2.13.4. **Mud Flaps** Mud Flaps must be provided for the rear of the front wheels and front and rear of the rear tandem.
- 2.13.5. **Automated Greasing System** that will grease all fixed point fittings on both packer body and chassis must be provided.
- 2.13.6. **Backup Camera and Scale System** capable of weighing individual bins that includes software must be provided.

**2.14. Commercial Paint and Corrosion Protection**

- 2.14.1. **Paint Finish** The following applies:
- 2.14.1.1. The vehicle including the cab, chassis and body systems must be painted in accordance with the paint manufacturer’s recommendations and the manufacturer’s best protection procedures, rendering a durable finish and a smooth appearance free from runs, sag and orange peel.
  - 2.14.1.2. A phosphate treatment plus primer or an E-coat system must be provided on all ferrous metals. This must be followed by two coats of paint.

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- 2.14.1.3. A cleaning and etching treatment plus primer followed by two coats of paint must be provided on all aluminum components.
- 2.14.1.4. A clear exterior grade sealer must be applied on all wooden surfaces.
- 2.14.2. **Paint Colour** (Dark Blue) The following applies:
  - 2.14.2.1. Dark Blue applied on all exposed exterior surfaces normally painted for the commercial trade must be provided.
  - 2.14.2.2. Chromed, polished and mill finished surfaces need not be painted.
- 2.14.3. **Cab and Chassis Corrosion Protection System** The following must be provided for the cab and chassis:
  - 2.14.3.1. In addition to standard factory rust proofing, after market rust proofing must be provided
  - 2.14.3.2. Metal surfaces treated with a rust preventive oily film product having the following properties:
    - 2.14.3.2.1. Moisture displacing
    - 2.14.3.2.2. Creeping ( Capillary Action)
    - 2.14.3.2.3. Low solvent content
    - 2.14.3.2.4. Compatibility with rubbers, plastics and all other materials used in automotive construction
    - 2.14.3.2.5. Non-toxic
    - 2.14.3.2.6. Minimal dripping
  - 2.14.3.3. Written proof of a twelve hour ASTM B117 salt spray endurance test certification by an independent test laboratory. Krown Rust Kontrol and Rust Check products have been accepted as certified, proof not required.
  - 2.14.3.4. The application includes, but is not limited to the underside of fenders and hood, enclosed and boxed-in sections , seams, mouldings, crevices, weld points, underbody and exposed exterior brackets.
  - 2.14.3.5. A decal and warranty paper must accompany the vehicle.
- 2.14.4. **Corrosion Resistant Materials** Stainless steel, zinc plated or hot dipped galvanized fasteners must be provided, and the design of the vehicle must prevent galvanic corrosion.

**2.15. Miscellaneous**

- 2.15.1. Identification Plate The following information must be provided as a minimum, permanently marked and in a conspicuous and protected location:
  - 2.15.1.1. Manufacturer, Model, Model Year and Serial Number
  - 2.15.1.2. GAWR, GVWR and GCWR ratings

**Annex “A” Purchase Description For 40 Cu Yd, Front Load Refuse Truck For  
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- 2.15.2. **Warning and Instruction Plates** The following applies:
- 2.15.2.1. All plates must be within easy view of the user.
  - 2.15.2.2. Instructions for engine starting, transmission operation, system operations and other special procedures to be followed must be provided.
  - 2.15.2.3. International symbols and/or bilingual markings must be provided.
- 2.15.3. **Lubricants and Fluids** The following applies:
- 2.15.3.1. The vehicle must with standard lubricants and fluids compatible with the delivery location and season
  - 2.15.3.2. The engine must be capable of operating on SAE 15W40 SF/CD oil.
  - 2.15.3.3. The hydraulic system must be capable of operating with DEXRON II
- 2.15.4. **Line Setting Ticket** The following must be provided:
- 2.15.4.1. A line setting ticket describing the components and options on the cab and chassis accompany each vehicle.
- 2.15.5. **Safety Recalls and Servicing Data** the following information must be sent to the Design Authority on a continuing basis, throughout the expected life of the vehicle (15 years):
- 2.15.5.1. Safety Recalls
  - 2.15.5.2. Pertinent manufacturer’s technical service bulletins that may impact on equipment performance, reliability and durability.
- 2.15.6. **Replacement Part Information** the following information must be sent to the Design Authority on a continuing basis, throughout the expected life of the vehicle (15 years):
- 2.15.7. **Bid Package Additional Information** The following must be supplied:
- 2.15.7.1. Up-to-date brochures and other applicable information
  - 2.15.7.2. Details on the warranty, including all separate component warranties
  - 2.15.7.3. A listing of all applicable operator, maintenance and parts manuals.
  - 2.15.7.4. A diagram with dimensions, weights

**APPENDIX 1 - TECHNICAL INFORMATION QUESTIONNAIRE****40 Cu Yd Front Load Refuse Truck**

Bidders are required to complete the following questionnaire

A) This is not a purchase description but rather a generic specifications sheet designed to cover the majority of vehicle purchases in this class. Refer to Annex "A" - Correctional Service Canada - Purchase Description - 40 Cu Yd Front Load Refuse Truck, dated 07 February 2014;

B) Fill out the form where applicable in order to provide details on the unit(s) you are offering.

- (1) Cab and Chassis Make: \_\_\_\_\_ Model: \_\_\_\_\_ Year: \_\_\_\_\_
- (2) GVWR \_\_\_\_\_ lbs. GCWR \_\_\_\_\_ lbs.
- (3) Dimensions WB: \_\_\_\_\_ inches CA: \_\_\_\_\_ inches
- (4) Engine Make: \_\_\_\_\_ Model: \_\_\_\_\_  
 Net HP: \_\_\_\_\_ HP at \_\_\_\_\_ RPM  
 Net torque: \_\_\_\_\_ lbs. feet at \_\_\_\_\_ RPM
- (B) Radiator Shutters Make: \_\_\_\_\_ Model: \_\_\_\_\_
- (5) Transmission Make: \_\_\_\_\_ Model: \_\_\_\_\_ No. of Speeds: \_\_\_\_\_
- (B) Clutch Type: \_\_\_\_\_ Size: \_\_\_\_\_
- (C) Transfer Case Make: \_\_\_\_\_ Model: \_\_\_\_\_ Ratio: \_\_\_\_\_
- (6) Front Axle Make: \_\_\_\_\_ Model: \_\_\_\_\_ Capacity: \_\_\_\_\_ lbs.
- (7) Rear Axle Make: \_\_\_\_\_ Model: \_\_\_\_\_  
 Capacity: \_\_\_\_\_ lbs. Ratio(s): \_\_\_\_\_
- (8) Suspension  
 Capacity at Ground Front: \_\_\_\_\_ lbs. each Shocks: \_\_\_\_\_  
 Rear: \_\_\_\_\_ lbs. each Shocks: \_\_\_\_\_  
 Auxiliary: \_\_\_\_\_ lbs. each
- (9) Tires Front size: \_\_\_\_\_ X \_\_\_\_\_ Ply/PR: \_\_\_\_\_ Tread: \_\_\_\_\_

Rear size: \_\_\_\_\_ X \_\_\_\_\_ Ply/PR: \_\_\_\_\_ Tread:

Spare size: \_\_\_\_\_ X \_\_\_\_\_ Ply/PR: \_\_\_\_\_ Tread:

(10) Frame Material: \_\_\_\_\_ RBM: \_\_\_\_\_ in lbs.

(B) Reinforcement Type: \_\_\_\_\_ RBM: \_\_\_\_\_ in lbs.

(11) Fuel Tank(s) Qty: \_\_\_\_\_ Type(s):

Capacity (each): \_\_\_\_\_ Gallons Locations:

(12) Battery(s) Qty: \_\_\_\_\_ Individual battery rating: \_\_\_\_\_ CCA

Total capacity: \_\_\_\_\_ CCA

(13) Alternator Output: \_\_\_\_\_ amps

(14) Steering Type: \_\_\_\_\_ Model:

(15) Brakes Type: \_\_\_\_\_ Size Front: \_\_\_\_\_ Rear:

(B) Compressor Make: \_\_\_\_\_ Model: \_\_\_\_\_ Capacity:  
CFM

(C) Air Dryer Make: \_\_\_\_\_ Model:

(D) Moisture Ejector Make: \_\_\_\_\_ Model:

(16) Seats Driver's Make: \_\_\_\_\_ Model:

Passenger's Make: \_\_\_\_\_ Model:

(17) Accessories

(18) Instruments

(19) VEHICLE PERFORMANCE (truck at full GVWR)

Geared Top Speed - \_\_\_\_\_ MPH (SAE J688)

(20) Snow Plough Make: \_\_\_\_\_ Model:

Blade length: \_\_\_\_\_ inches Height intake: \_\_\_\_\_ inches

Discharge: \_\_\_\_\_ inches

(21) Hopper/Spreader Specifications Make: \_\_\_\_\_ Model:

\_\_\_\_\_

Capacity: \_\_\_\_\_

Engine size: \_\_\_\_\_

Gear box ratio: \_\_\_\_\_

Spreader capabilities: minimum \_\_\_\_\_ feet maximum \_\_\_\_\_ feet

(22) Dump Body Make: \_\_\_\_\_ Model:

Capacity: \_\_\_\_\_ cubic yards

Dimensions

Inside length: \_\_\_\_\_ inches width: \_\_\_\_\_ inches

Heights front: \_\_\_\_\_ inches sides: \_\_\_\_\_ inches tailgate: \_\_\_\_\_ inches