



## **REQUEST FOR QUOTATIONS**

**Title:** Supply and Delivery Garbage Compactor Vehicle

**Reference No.:** 1220-040-2021-027

**FOR THE SUPPLY OF GOODS**

(General Services)

Issue Date: March 3, 2021

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## REQUEST FOR QUOTATIONS

### 1. INTRODUCTION

The City of Surrey (the “**City**”) invites contractors to provide a quotation on the form attached as Schedule B – Form of Quotation to Attachment 1 – Quotation Agreement (the “**Quotation**”) for the supply and delivery of the goods described in Schedule A – Specifications of Goods to Attachment 1 – Quotation Agreement - Goods (the “**Goods**”). The description of the Goods sets out the minimum requirements of the City. A person that submits a Quotation (the “**Contractor**”) should prepare a Quotation that meets the minimum requirements, and may as it may choose, in addition, also include goods, or terms that exceed the minimum requirements.

### 2. ADDRESS FOR DELIVERY

The Contractor should submit the Quotation **electronically** in a single pdf file which must be delivered to the City by email at: [purchasing@surrey.ca](mailto:purchasing@surrey.ca)

Confirmation of receipt of emails will be issued. Quotations that cannot be opened or viewed may be rejected. A Contractor bears all risk that the City’s receiving computer equipment functions properly so that the City receives the Quotation.

**Note:** The maximum file size the City can receive is 10Mb. If sending large email attachments, Contractors should phone [604-590-7274] to confirm receipt.

### 3. DATE

The City would prefer to receive Quotations on or before March 25, 2021 (the “**Date**”).

### 4. INQUIRIES

All inquiries related to this Request for Quotations (the “**RFQ**”) should be directed in writing to the person named below (the “**City Representative**”). Information obtained from any person or source other than the City Representative may not be relied upon.

Name: Richard D. Oppelt, Manager, Procurement Services

Email: [purchasing@surrey.ca](mailto:purchasing@surrey.ca)

Reference: 1220-040-2021-027

Inquiries should be made no later than seven (7) business days before Date. The City reserves the right not to respond to inquiries made within seven (7) business days of the Date. Inquiries and responses will be recorded and may be distributed to all Contractors at the discretion of the City.

Contractors finding discrepancies or omissions in the Agreement or RFQ or having doubts as to the meaning or intent of any provision, should immediately notify the City Representative. If the City determines that an amendment is required to this RFQ, the City

Representative will issue an addendum in accordance with Section 5. No oral conversation will affect or modify the terms of this RFQ or may be relied upon by any Contractor.

## **5. ADDENDA**

If the City determines that an amendment is required to this RFQ, the City Representative will issue a written addendum by posting it on the BC Bid website at [www.bcbid.gov.bc.ca](http://www.bcbid.gov.bc.ca) and the City website at [www.surrey.ca](http://www.surrey.ca) (collectively, the “Websites”), and upon posting, any addenda will form a part of this RFQ. It is the responsibility of Contractors to check the Websites for addenda. The only way this RFQ may be added to, or amended in any way, is by a formal written addendum. No other communication, whether written or oral, from any person will affect or modify the terms of this RFQ or may be relied upon by any Contractor. By delivery of a Quotation the Contractor is deemed to have received, accepted and understood the entire RFQ, including any and all addenda.

## **6. NO CONTRACT**

This RFQ is simply an invitation for quotations (including prices and terms) for the convenience of all parties. It is not a tender and no obligations of any kind will arise from this RFQ or the submission of Quotations. The City may negotiate changes to any terms of a Quotation, including terms in Attachment 1 and Schedules A and B and including prices, and may negotiate with one or more Contractors or may at any time invite or permit the submission of quotations (including prices and terms) from other parties who have not submitted Quotations.

## **7. ACCEPTANCE**

A Quotation will be an offer to the City which the City may accept at any time by signing the copy of the Quotation and delivering it to the Contractor. A Quotation is not accepted by the City unless and until both the authorized signatory of the Contractor and the authorized signatory of the City have signed. Delivery of the signed Agreement by the City may be by fax, pdf e-mail or hard copy. In that event, the contract will be comprised of the documents included in the definition of Agreement in Attachment No. 1 – Quotation Agreement – Goods.

## **8. CONTRACTOR'S EXPENSES**

Contractors are solely responsible for their own expenses in preparing and submitting Quotations, and for any meetings, negotiations or discussions with the City or its representatives and consultants, relating to or arising from the RFQ. The City will not be liable to any Contractor for any claims, whether for costs, expenses, losses or damages, or loss of anticipated profits, incurred by the Contractor in preparing and submitting a Quotation, or participating in negotiations for a contract, or other activity related to or arising out of this RFQ.

## **9. CONTRACTOR'S QUALIFICATIONS**

By submitting a Quotation, a Contractor represents that it has the expertise, qualifications, resources, and relevant experience to supply the Goods.

**10. CONFLICT OF INTEREST**

A Contractor should disclose in its Quotation any actual or potential conflicts of interest and existing business relationships it may have with the City, its elected or appointed officials or employees. The City may rely on such disclosure.

**11. SOLICITATION OF COUNCIL MEMBERS, CITY STAFF AND CITY CONSULTANTS**

Contractors and their agents will not contact any member of the City Council, City staff or City consultants with respect to this RFQ, other than the contact person named in Section 4, at any time prior to the award of a contract or the cancellation of this RFQ.

**12. CONFIDENTIALITY**

All Quotations become the property of the City and will not be returned to the Contractor. All Quotations will be held in confidence by the City unless otherwise required by law. Contractors should be aware the City is a "public body" defined by and subject to the *Freedom of Information and Protection of Privacy Act* of British Columbia.

**13. SIGNATURE**

The legal name of the person or firm submitting the Quotation should be inserted in the Quotation. The Quotation should be signed by a person authorized to sign on behalf of the Contractor and include the following:

- (a) If the Contractor is a corporation then the full name of the corporation should be included, together with the names of authorized signatories. The Quotation should be executed by all of the authorized signatories or by one or more of them provided that a copy of the corporate resolution authorizing those persons to execute the Quotation on behalf of the corporation is submitted;
- (b) If the Contractor is a partnership or joint venture then the name of the partnership or joint venture and the name of each partner or joint venturer should be included, and each partner or joint venturer should sign personally (or, if one or more person(s) have signing authority for the partnership or joint venture, the partnership or joint venture should provide evidence to the satisfaction of the City that the person(s) signing have signing authority for the partnership or joint venture). If a partner or joint venturer is a corporation then such corporation should sign as indicated in subsection (a) above; or
- (c) If the Contractor is an individual, including a sole proprietorship, the name of the individual should be included.

**14. EQUIVALENTS, SUBSTITUTIONS, ALTERNATIVES**

Unless otherwise expressly stated, if and wherever the specifications set out in Schedule A Specification of Goods to Attachment 1 – Agreement Goods, use a brand name of a manufacturer, make, trade name, or catalogue designation in specifying an item, it does not restrict Contractors to the identified manufacturer, make, trade name, or catalogue

designation. The usage of such identification is simply to indicate the character, quality and/or performance equivalence of the commodity identified.

Prior to the Date, a Contractor may request, pursuant to Section 4 the City to approve a commodity(ies) (each, an "Equivalency") to be included in a Quotation in substitution for a commodity(ies), indicated in Schedule A Specification of Goods to Attachment 1 – Agreement Goods, on the basis that the substitution of the same or better character, quality and/or performance as the commodity(ies) indicated in Schedule A Specification of Goods to Attachment 1 – Agreement Goods, such that that the proposed Equivalency will serve the purpose for which it is intended to be used equally as well. Applications for an Equivalency should be in writing delivered to the City Representative, accompanied by appropriate supporting information, data, specifications and documentation. The City may request any additional supporting information, data, specifications and documentation it considers necessary to make a decision with respect to the application. If the City decides in its sole discretion to accept an Equivalency, then the City will provide written confirmation of such acceptance to the Contractor, without notification to other Contractors (subject to the City's discretion under Section 4). The City is not obligated to review or accept any application for an Equivalency. Without limiting the City's discretion as set out in this Section 14, the City may specifically refuse to approve an application for an Equivalency with which there may be an associated increase to a Quotation Price or a delay to the supply and delivery of the Goods.

The Contractor should clearly identify in its Quotation any Equivalencies approved by the City under this Section 14.

If the Contractor does not in its Quotation indicate any Equivalencies, the Contractor will be deemed to accept the commodity(ies) described in Schedule A Specification of Goods to Attachment 1 – Agreement Goods.

**Attachment No. 1 – DRAFT QUOTATION AGREEMENT – GOODS**

**Reference RFQ Title: Supply and Delivery Garbage Compactor Vehicle**

**RFQ No.: 1220-040-2021-027**

**BETWEEN:**

**CITY OF SURREY**  
13450 – 104<sup>th</sup>. Avenue  
Surrey, B.C., V3T 1V8  
(the "**City**")

**AND:**

\_\_\_\_\_  
(the "**Contractor**")

**WHEREAS** the City wishes to engage the Contractor to provide the Goods and the Contractor agrees to provide the Goods.

**THEREFORE** in consideration of the payment of one (\$1.00) dollar and other good and valuable consideration paid by each of the parties to the other (the receipt and sufficiency of which is hereby acknowledged) the City and the Contractor agree as follows:

**DEFINITIONS AND INTERPRETATION**

1. In these General Terms and Conditions:
  - (a) "Agreement" means this agreement and all schedules attached hereto;
  - (b) "City" means the City of Surrey;
  - (c) "Contractor" means a contractor whose Quotation has been accepted by the City and who is supplying the Goods under this Agreement;
  - (d) "Goods" means the equipment or materials that are the subject of this Agreement; and
  - (e) "Purchase Price" means the price quoted by the Contractor and accepted by the City, unless otherwise agreed by the parties in writing, and includes all taxes, duties, freight charges and other charges except GST and PST.
  
2. This Agreement may be modified only by express and specific written agreement. In the event of a conflict between the provisions of any documents listed below, then the documents shall govern and take precedence in the following order:
  - (a) this Agreement;
  - (b) Schedule B – Quotation Extracts;
  - (c) Schedule A – Specifications of Goods; and
  - (d) other terms, if any, that are agreed to by the parties in writing.

3. The following attached Schedules are a part of this Agreement:

Schedule A – Specifications of Goods; and  
Schedule B – Quotation Extracts.

## **GOODS**

4. The Contractor will supply the Goods in accordance with this Agreement. The Goods supplied will meet the specifications set out in Schedule A – Specifications of Goods of this Agreement.
5. The Contractor will deliver the Goods free and clear of all liens and encumbrances in the manner and to the destination stipulated. In the event of the Contractor's failure to meet this condition, the Contractor will, on written notice from the City, forthwith return all monies paid by the City on account of the Goods and in addition the City may by written notice terminate this Agreement without liability, and in such event, in addition to the above, the Contractor will be liable for any and all expenses or losses incurred by the City resulting from such failure.

## **PURCHASE PRICE**

6. The City will pay the Purchase Price to the Contractor in accordance with this Agreement. The Purchase Price shall also include without limitation all costs of boxing, packing, crating, and loading and unloading the Goods at the prescribed destination.

## **TIME**

7. Time is of the essence.

## **PAYMENT**

8. Invoices should include the Contractor's name, address and telephone number, the City's purchase order number, the Contractor's invoice number, the Contractor's GST registration number or an indication that it is not applicable if the Contractor is a small trader, the quantity, tax amount (if any) and the complete Purchase Price calculations, including extensions and discounts.
9. The City will pay the invoice, in the amount as the City determines is correct less any deductions for setoffs or holdbacks permitted by this Agreement including, without limitation, those described in this Agreement, within 30 days of the receipt of the invoice, unless the parties have agreed in writing to other payment terms. The payment by the City of any invoice will not bind the City with respect to any subsequent payment or final payment and will not mean that the City has accepted that the Goods are in accordance with the requirements of this Agreement, or that the Contractor is in any manner released from its obligation to comply with this Agreement.



10. Unless otherwise provided, all dollar amounts referred to in this Agreement are in lawful money of Canada.
11. Payments to Contractors will be made through Electronic Funds Transfer (EFT), directly into the Contractor's bank account. An EFT application form will be provided to the Contractor for completion.

## **DEFICIENCIES**

12. The City shall have a reasonable time to inspect and to accept the Goods. The City may reject any Goods not in accordance with this Agreement, whether due to damage resulting from improper packing, loading, unloading or otherwise. The City shall notify the Contractor of rejection of the Goods whereupon the Goods will be held subject to the disposition by the Contractor. Any costs or expenses incurred by the City as a result of the rejection of the Goods are, immediately upon written demand by the City, payable by the Contractor, and may be set off against any payments owing by the City to the Contractor.
13. The City may hold back from payments otherwise due to the Contractor up to 150% of a reasonable estimate, as determined by the City, on account of deficient or defective materials. This holdback may be held, without interest, until replacement Goods are received or such deficiency or defect is remedied.

## **DEFAULT AND TERMINATION**

14. In the event the Contractor does not ship the Goods by the shipping date specified in this Agreement, or does not deliver the Goods by the delivery date specified in this Agreement, or otherwise fails to comply with the requirements of this Agreement, then:
  - (a) the City reserves the right to terminate this Agreement, in whole or in part, and in the event of such termination no payment will be owing by the City on account of this Agreement and the Contractor will be liable for any and all expenses or loss resulting from such failure or delay and will return all monies paid by the City; or
  - (b) if the City does not terminate this Agreement for late shipping or delivery, the City may deduct and setoff from any payments owing to the Contractor all additional costs the City reasonably incurs on account of the late shipping or delivery.
15. The City may by written notice at any time cancel this Agreement with respect to Goods which, as of the date of cancellation, have not been shipped.
16. If the Contractor becomes insolvent or makes an assignment for the benefit of creditors or a receiver or trustee is appointed for the property of the Contractor, then the City may, at its election, and without prejudice to its rights at law or in equity, terminate this Agreement.

17. The City will not accept nor be responsible for any restocking charges for any Goods shipped to the City and then, for whatever reason, returned to the Contractor pursuant to this Agreement. The Contractor is to bear all costs including shipping and handling of returned Goods.

## **WARRANTIES AND INDEMNITIES**

18. The Contractor warrants that the Goods shall be free from defects in design, materials, workmanship and title, shall conform in all respects to the terms of this Agreement, shall be fit and suitable and perform satisfactorily for the purposes and under the conditions made known to the Contractor by the City or which were reasonably inferable. The Goods shall be at least equal to the higher of national standards or codes (such as, by way of illustration, CSA or ASTM), or standards and codes customarily applicable at the place where the City will use the Goods. The Goods shall be of the best quality, if no quality is specified. This general warranty is independent of and without prejudice to any specific warranty or service guarantee offered by the Contractor or third party manufacturer or supplier of the Goods in connection with the purpose for which the Goods were purchased. The Contractor shall assign to the City any warranty or service guarantee offered by a third party manufacturer or supplier of the Goods. Notwithstanding this assignment, if at any time up to one year from the date of delivery or installation (if applicable) the City determines the Goods or any part do not conform to these warranties, the City shall notify the Contractor within a reasonable time after such discovery, and the Contractor shall then promptly correct such nonconformity at the Contractor's expense. Goods used to correct a nonconformity shall be similarly warranted for one year from the date of installation. The Contractor's liability shall extend to all liabilities, losses, damages, claims and expenses incurred by the City caused by any breach of any of the above warranties.
19. The Contractor warrants and guarantees that Goods delivered under this Agreement do not infringe any valid patent, copyright or trademark, foreign or domestic, owned or controlled by any other corporation, firm or person, and agrees to indemnify and save harmless the City and all of its elected and appointed officials, officers, employees, servants, representatives and agents (collectively the "Indemnitees"), from and against any and all claims, demands, causes of action, suits, losses, damages and costs, liabilities, expenses and judgments (including all actual legal costs) by reason of any claim, action or litigation arising out of any alleged or actual infringement of any patent, copyright or trademark, foreign or domestic, relating to the Goods supplied under this Agreement.
20. The Contractor represents and warrants that all Goods delivered under this Agreement shall comply with all applicable codes, statutes, by-laws, rules and regulations, or any federal, provincial, municipal or other competent authority for the time being in force, including any environmental laws and that the Goods are not dangerous to the environment or to person or health.

21. The Contractor will indemnify and save harmless the Indemnitees from and against all claims, demands, causes of action, suits, losses, damages and costs, liabilities expenses and judgments (including all actual legal costs) for damage to or destruction or loss of property, including loss of use, and injury to or death of any person or persons which any of the Indemnitees incur, suffer or are put to arising out of or in connection with any failure, breach or non-performance by the Contractor of any obligation of this Agreement, or any wrongful or negligent act or omission of the Contractor or any employee or agent of the Contractor.

## **CUSTOMS**

22. Documentation for shipments of Goods from outside Canada shall be provided by a Contractor by airmail and shall include all documents as required by law or customary practice. All packages shall be marked as follows:

“Upon arrival, please contact customs broker:  
Livingston International Inc.  
Telephone: 604-685-3555  
Fax: 604-605-8231  
Email: cst19@livingstonintl.com”

## **INSPECTIONS**

23. If this Agreement pertains to the fabrication, assembly or other processing of the Goods, representatives of the City shall be permitted free access at all reasonable times for the purpose of inspection, testing or obtaining information as to the progress of the fabrication, assembly or processing.

## **SAFETY**

24. If this Agreement includes any inspection, installation or other work on the City's premises by the Contractor, or representative or subcontractor of the Contractor, all such activity shall be performed and undertaken in strict compliance with all applicable health and safety laws and regulations, including, without limitation, the *Workers Compensation Act*, the Occupational Health & Safety Regulation and the *Hazardous Products Act*, and also in strict compliance with any published and issued by the City for use at the City's premises. The Contractor shall provide the City with the Contractor's Workers Compensation Board registration number and a letter from the Workers Compensation Board confirming the supplier is registered in good standing with the Workers Compensation Board and that all assessments have been paid to the date thereof prior to the City having any obligation to pay monies under this Agreement.

## **WHMIS/MSDS**

25. The Contractor covenants and agrees to comply with all the Workers Compensation Board Occupational Health and Safety Regulations for hazardous materials and

substances, and in particular with the “Workplace Hazardous Materials Information Systems (WHMIS)” Regulations. All “Material Safety Data Sheets (MSDS)” will be shipped along with the Goods and any future MSDS updates will be forwarded.

## **SHOP DRAWINGS**

26. The City may require that shop drawings be submitted by the Contractor for review prior to the delivery of the Goods. The City may require that a qualified registered professional engineer stamp and approve a shop drawing prior to submission. Any review of shop drawings by the City will not relieve the Contractor from its obligation to deliver Goods in full compliance with all requirements of this Agreement.

## **WAIVER**

27. Any failure of the City at any time or from time to time to enforce or require the strict keeping or performance of any of the terms and conditions contained in this Agreement shall not constitute a waiver of the terms and conditions and shall not affect or impair the terms or conditions in any way or the City's right at any time to avail itself of any remedies as the City may have for any breach or breaches of the terms and conditions.

## **APPLICABLE LAW**

28. This Agreement shall be governed by and construed in accordance with the laws of the Province of British Columbia. The City and the Contractor accept the jurisdiction of the courts of British Columbia and agree that any action under this Agreement shall be brought in such courts.

## **NOTICES**

29. Any notice, report or other document that either party may be required or may wish to give to the other should be in writing, unless otherwise expressly provided for, and will be deemed to be validly given to and received by the addressee:
- (a) by hand, on delivery;
  - (b) by facsimile, on transmission; or
  - (c) by mail, five calendar days after posting.

The addresses for delivery will be as follows:

- (a) The City:  
Attention:
  
- (b) The Contractor:  
Attention:

## **MERGER AND SURVIVAL**

30. The representations, agreements, covenants and obligations set out in this Agreement shall survive the delivery of the Goods and payment of the Purchase Price.

## **ENTIRE AGREEMENT**

31. This Agreement, including any other documents expressly included by reference in this Agreement, contains the entire agreement of the parties regarding the provision of the Goods, and no understandings or agreements, oral or otherwise, exist between the parties except as expressly set out in this Agreement. This Agreement supersedes and cancels all previous agreements between the parties relating to the Goods.
32. In the event that the Contractor issues an invoice, packing slip, sales receipt, or any like document to the City, the City accepts the document on the express condition that any terms and conditions in it which constitute terms and conditions which are in addition to or which establish conflicting terms and conditions to those set out in this Agreement are expressly rejected by the City.

## **SIGNATURE**

33. This Agreement may be executed in one or more counterparts all of which when taken together will constitute one and the same Agreement, and one or more of the counterparts may be delivered by fax transmission or as a pdf file.

**- END OF PAGE -**

**ENUREMENT**

34. This Agreement shall enure to the benefit of and be binding upon the respective successors and permitted assigns of the City and the Contractor.

This Quotation Agreement is executed by the Contractor this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

**CONTRACTOR**

**I/We have the authority to bind the Contractor.**

\_\_\_\_\_  
(Legal Name of Contractor)

\_\_\_\_\_  
(Signature of Authorized Signatory)

\_\_\_\_\_  
(Signature of Authorized Signatory)

\_\_\_\_\_  
(Print Name and Position of Authorized Signatory)

\_\_\_\_\_  
(Print Name and Position of Authorized Signatory)

This Quotation Agreement is executed by the City of Surrey this \_\_\_\_ day of \_\_\_\_\_, 2021.

**CITY OF SURREY**

by its authorized signatory:

\_\_\_\_\_  
(Signature of Authorized Signatory)

\_\_\_\_\_  
(Print Name and Position of Authorized Signatory)

## **SCHEDULE A – SPECIFICATION OF GOODS**

**PROJECT TITLE:** SUPPLY AND DELIVERY GARBAGE COMPACTOR VEHICLE

**PROJECT No.:** 1220-040-2021-027

### **1. GENERAL DESCRIPTION**

It is the intent of this specification to provide for the purchase of a new and unused 2021/2022 model truck in cab over engine configuration with a rear loading garbage compactor. The vehicle should have a gaseous prepared engine, capable of running dual fuels (CNG and Gasoline). The vehicle should be supplied with factory approved CNG conversion and should be warranted by the vehicle manufacturer. The Contractor should provide details of the layout and configuration of the installed CNG tanks. The installation of the tanks should be done in a manner as to maximize the load carrying space of the trucks. Design concept drawings should be provided at the time of the submission.

### **2. PREFERRED TECHNICAL SPECIFICATIONS**

The City's requirements are outlined in **Schedule A-1 – Preferred Technical Specifications**.

The services include, but are not limited to the following:

- Supply and Delivery of One (1) 19,500lb GVW (minimum) Cab Over Engine Configuration Dual Fuel (CNG & Gasoline) truck with rear loading garbage compactor;
- Provision of local dealer warranty service and replacement parts at no cost to the City at a local dealer preferably in the Surrey area; and
- Provision of post-delivery services and parts availability at a local dealer, preferably in the Surrey area.

Quotations will be reviewed based upon the suitability of the Contractor's proposed solution in relation to the Schedule A-1 Preferred Technical Specifications.

As part of their Quotation, Contractors should submit Schedule B-1 (Preferred Technical Specifications Response Form) by completing the spreadsheet's fourth right-most columns.

### **3. PRE-DELIVERY AND INSPECTION**

Prior to delivery, the vehicle should be completely inspected and serviced by the Contractor and/or the manufacturer's Service Centre. The Contractor is responsible to ensure the vehicle is thoroughly tested inspected, and that all deviations are corrected prior to delivery. The vehicle should contain a pre-delivery check sheet showing what operations have been performed on the vehicle by the Contractor. The vehicle is to be clean, and all stickers are to be removed from glass prior to delivery with the exception of any sticker required by law.

The City will inspect the vehicle, upon delivery, for workmanship, appearance, proper functioning of all vehicle and accessories and systems, and conformance to all requirements of the specifications. In the event deficiencies are detected, the vehicle will be rejected, and it should be the Contractor's responsibility to pick-up the vehicle, make the necessary corrections and re-deliver the vehicle for a re-inspection and acceptance.

The Contractor should be responsible for securing any and all inspections required by law, including B.C. Provincial Inspection stickers. Any fee charged for these inspections should be the sole responsibility of the Contractor.

#### 4. DELIVERY REQUIREMENTS

The Good is to be delivered F.O.B. Destination, Freight Prepaid, to City of Surrey, Fleet/Service Centre, Central Operations Works Yard, 6651 – 148th Street, Surrey, BC, V3S 3C7, attention: Mr. Keith Sharp, Fleet & Garage Manager.

Deliveries are to be made between the hours of 8:30 a.m. to 4:30 p.m. Monday through Friday, excluding statutory holidays, unless other arrangements have been agreed to in writing from the City.

The Contractor should notify the Fleet & Garage Manager at 604-590-7269 not less than three (3) working days prior to expected delivery / arrival to permit inspection scheduling. The City will not assume any liability for vehicle delivered to an unauthorized location.

The Good should be inspected by the City to determine compliance with the specifications and/or to test its ability to perform its intended use.

#### 5. DOCUMENTATION AT TIME OF DELIVERY

The Contractor should provide the following documentation upon delivery:

- **KEYS** – All three [three (3) full sets];
- Manufacturer's **Certificate of Origin**;
- **Warranty** documents and certifications;
- One (1) complete **Service Manual** to cover, but not limited to, tires, engine, batteries, transmission, axles, electrical components to cover the vehicle(s) equipment;
- One (1) **Parts Manual** covering the entire vehicle(s) equipment;
- One (1) set of **As-built Electrical Wiring Schematics** to cover any and all wiring not installed by the manufacturer. This diagram to include part numbers and brand names of switches, lights, etc. of part used;



- Complete **Parts List** of all belts, hoses and filters; including parts numbers, manufacturer and use; and
- A **Fluid Capacities** in litres.

## **6. TITLE, RISK OF LOSS, FREIGHT**

Title of the vehicle should remain with the Contractor until it is delivered to the City address specified and transfer of title is executed by the City.

The Contractor agrees to bear all risks of loss, injury, or destruction of goods and materials ordered herein which occur prior to delivery and acceptance.

The Contractor should be responsible for customs clearance and payment of any duties and/or taxes owing at time of importation into Canada, as applicable.

## **7. MANUFACTURER'S WARRANTY**

The Contractor will be required to furnish a warranty by the manufacturer that the Good is suitable for the service intended, in accordance with the specifications defined herein. The Contractor shall agree to replace and install without charge [including all labour], within the scope of the warranty, any defective part or any parts that are determined by the City not to be suitable for the service intended.

The warranty period will go into effect at the time the vehicle is placed into service by the City. Contractors are to include a complete warranty statement with their Quotation.

**-END OF PAGE-**

## SCHEDULE A-1 – PREFERRED TECHNICAL SPECIFICATIONS

### **PREFERRED TECHNICAL SPECIFICATIONS**

**DESCRIPTION:** Each Good to be supplied with all available standard equipment in addition to the specifications listed below. Provide warranty details for the unit offered.

The preferred specifications herein states the preferred specifications of the City of Surrey.

<b>Preferred Specifications</b>
<b>1. Chassis</b>
1.1 Colour - White
1.2 Chassis should be a cab over engine configuration with 150" wheelbase approx. & with a 127.5" CA approx. - to be confirmed by garbage compactor supplier, allowing for approximately 30" wide x 48" high toolbox behind cab. Exact dimensions to be confirmed.
1.3 Dual cab mounted exterior mirrors with integral convex mirror – mirrors should be heated
1.4 State chassis make, model and point of manufacture
<b>2. Axles, Suspension, Frame</b>
2.1 Chassis should be a minimum of approx. 19,500 lbs. GVW rating
2.2 State max towing capacity in lbs.
2.3 Rear axle capacity should be a minimum of 14,400 lbs., with taper leaf springs and shock absorbers
2.4 Front axle capacity should be a minimum of 7,275 lbs., with taper leaf springs and shock absorbers
2.5 A load distribution drawing should be provided.
2.6 Differential should be limited slip and comes with synthetic gear oil
<b>3. Engine - Transmission</b>
3.1 Engine should be prepared (gaseous prep engine) to run on CNG and gasoline, and should comply with all Provincial and Federal engine emission regulations
3.2 Engine should have a minimum power out put of 310 hp, and minimum torque of 350 lb – ft. State engine configuration, size, HP, torque specifications
3.3 Full manufactures warranty with CNG conversion should be provided
3.4 Extended life coolant 50/50 mix. The cooling system should be protected to -34 deg F.
3.5 The vehicles should default to run on CNG, and should only operate on gasoline when the CNG tanks are empty, or if there is a requirement to start the engine on gasoline, until up to normal operating temperature
3.6 Automatic transmission, Allison RDS 1000 model transmission with dual PTO
<b>4. Brakes</b>
4.1 Brakes should be vacuum/hydraulic type with 4-channel ABS
4.2 Front and rear brakes should be disc type
4.3 Parking brake should be drum/driveline, internal expanding shoes.
<b>5. Fuel</b>
5.1 The manufacturers gasoline fuel tank should remain

<b>Preferred Specifications</b>
5.2 CNG tank(s) should be of a size of at least 24.5 GGE/93GLE (@3600 PSI). Two tanks should be provided to give sufficient operating range under normal operating conditions and should be made of composite material – steel tanks are unacceptable. State tank size
5.3 Tanks are to be mounted in locations which does not interfere with mounting of the garbage compactor.
5.4 CNG fuel tank mounting/placement. The City suggests that one tank is mounted in the toolbox behind the cab in upper most part of the box. The box should be designed and engineered to allow for the mounting in this position and comply with all regulations. Mounting the cylinder in the upper part of the toolbox allows for tool and equipment storage. The second tank could be mounted on the chassis rail on the driver's side of the vehicle. CNG installer, chassis supplier and garbage compactor supplier should work together to ensure sufficient space is available. All tank mounting must meet relevant regulations. Contractors to provide design drawing as part of the submission including the location of the CNG tanks.
5.5 Fuel gauge for each fuel type should be provided in easy view for the driver
5.6 CNG filling port should be located between the cab and the toolbox with a filling receptacle on both sides of the truck
5.7 Valving should be installed in a suitable location to allow for the CNG system to be de-fueled should the need arise
5.8 The gasoline tank should remain and should be mounted between the chassis rails at the rear of the chassis. The tank should be constructed from stainless steel with a capacity of approximately 35 gallons
<b>6. Wheels, Tires</b>
6.1 Rims should be 19.5inch diameter
6.2 Tires should be 225/70R 19.5 - 14 ply all-season tires in all positions – preference to Bridgestone or Michelin tires.
<b>7. Cab</b>
7.1 Cab interior should be fully air-conditioned including a fresh air heater/ventilator/defroster.
7.2 Seats should be breathable cloth covered high back driver's seat with two occupant passenger seats. Seat covers are to be provided
7.3 Cab should have full flow through ventilation for optimal temperature control and operator comfort.
7.4 Wipers should have intermittent feature.
7.5 Power windows and door locks
7.6 Cab should include dash 12volt power outlet
7.7 Cab should include AM/FM/CD radio with (2) speakers and antenna, Bluetooth capable, auxiliary input/USB port
7.8 Rubber Floor Mats should be provided for all seating areas
7.9 Full vision illuminated instrumentation and warning lights, with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge
7.10 Keyless entry with 3 sets of keys/fobs
<b>Rear Loading Garbage Compactor</b>
<b>8. Capacity</b>

<b>Preferred Specifications</b>
8.1 The capacity of the body should be approximately 6 cubic yards – excluding the hopper
8.2 The minimum capacity of the hopper should be 1.0 cubic yard without the use of a hopper loading sill extensions
8.3 The body will allow for the compaction of household waste of 1,000 lbs. per cubic yard
<b>9. Body Dimensions</b>
9.1 Body width of approximately 89 inches
9.2 Inside body width should be 74 inches at the widest point
9.3 Body height of approximately 70 inches above the chassis rail
9.4 The weight of the body, and tailgate should be approximately 7,200 lbs
<b>10. Body Construction</b>
10.1 The body should have a smooth floor with no trough. No cylinders, valves or other hydraulic components should be exposed to refuse in the body
10.2 The body sides should be fabricated from 10-gauge high tensile steel and be of a curved one-piece design
10.3 The body roof should be fabricated from 10-gauge high tensile steel and be of a curved design
10.4 There should be a 20"x26" door on the driver's side of the body, the door is closed by a spring-loaded latch
10.5 The body floor should be fabricated from 7 gauge hi-tensile steel full width of the body with no depression or trough for an ejector cylinder
10.6 The body should have 8" x 3/16 high tensile steel longitudinal rails, with floor cross members fabricated from 7-gauge high tensile steel
<b>11. Tailgate Dimensions &amp; Construction</b>
11.1 The hopper should have an opening of 66" wide x 48" high to permit unobstructed loading of the tailgate hopper
11.2 The top of the loading sill should be 2" above the top of the chassis frame to allow for easy loading
11.3 The overall height above the chassis frame with tailgate raised should be 118"
11.4 The length of the tailgate should be 53 ½"
11.5 The lower tailgate sides should be fabricated from 10-gauge AR235 steel
11.6 The hopper floor and chute should be fabricated from 3/16" AR235 abrasion resistant steel
11.7 The tailgate sides and hopper chute should be reinforced with high tensile steel channels and fully welded
11.8 The tailgate should be secured to the body with tailgate lock bars made of ¾" high tensile steel. The tailgate locks should operate automatically when the tailgate is moved
11.9 The tailgate seal should extend a minimum of 14" up the body side
11.10 Two grab handles should be located each side of the tailgate
11.11 The rear steps should be fabricated from open grip strut material with a minimum standing surface of 330 square inches per step. The steps should be of a bolt on style and comply with A.N.S.I standards
<b>12. Packing Mechanism</b>
12.1 The packing cycle should be controlled by a two - lever system that allows the operator to start, stop, and reverse the direction of any function at any point during the packing cycle
12.2 The tailgate hydraulic control valve should be under the top covers, and should be a

<b>Preferred Specifications</b>
sectional type valve
12.3 The packing blade assembly should consist of two primary components – 1) the slide blade 2) the sweep blade
12.4 The packing blade assemblies should be mounted on four wear shoe assemblies utilizing UHMW poly wear shoes. The shoe assemblies should be replaceable without removing packing blade assembly from the tailgate. The packing blade and the slide blade should be attached by two 2 1/4" DIA. alloy steel pins. These pins should also support the (2) lower wear assemblies.
12.5 The slide blade should be constructed of 3/16" high tensile steel
12.6 The sweep blade should be mounted to the pivot on the slide blade. The sweep blade should be fabricated from high tensile steel, varying in thickness from 10 gauge to 3/8" and the face sheet should be 3/16" T-1
12.7 The packing blades should be powered by two 3 1/2" bore x 1 3/4" rod x 19" stroke sweep hydraulic cylinders
12.8 The packing slide should be powered by two 3 1/2" bore x 1 3/4" rod x 19" stroke sweep hydraulic cylinders
12.9 The hydraulic cylinders will have hardened chrome plated rods
12.10 The compaction blade cycle should operate in an 18 second cycle, and a 10 second reload time
12.11 Material in the hopper should be compacted between the packing panel assembly and the ejector panel. The ejector panel should hold pressure against the compacted material and will automatically drift forward by a hydraulic load control valve without operator assistance.
12.12 The sweep blade assembly should be protected by a secondary relief valve that is integral to the tailgate mounted control valve.
<b>13. Ejection System</b>
13.1 The load should be ejected by a double acting, telescopic hydraulic cylinder that should extend and retract the ejector panel the full length of the body without the use of clamp bars or related hardware.
13.2 The ejector cylinder should have the following dimensions: 4 1/2" bore x 47" stroke, and be a single stage cylinder
13.3 The ejector panel should have a 10-gauge high tensile steel face sheet that is reinforced by structural steel tubing and formed channels of high tensile steel.
13.4 The ejector panel should be mounted on 2 high-density polyethylene wear shoes that should be replaceable without removing the ejector panel from the body. Metallic type shoes are unacceptable.
13.5 The ejector panel should be guided in the body by two guide tracks located on the body side 5" above the body floor. The tracks should be 4" deep, fabricated from high tensile steel and full welded to the body sides.
13.6 The ejector cylinder should be mounted angularly to the body floor and not require a trough or depression in the floor.
<b>14. Controls</b>
14.1 The ejector and tailgate lift controls should be mounted at the left front of the body
14.2 Ejector and tailgate controls should be mounted directly to the valve spool.
14.3 A throttle advance switch should be located convenient to the ejector and tailgate lift controls

<b>Preferred Specifications</b>
14.4 The tailgate controls should be located at the right rear of the tailgate. The two-lever design should have positive control of movement of the packing mechanism at all times. The tailgate controls should comply with the applicable A.N.S.I. regulations.
14.5 An automatic throttle advance device should be incorporated with the tailgate controls
<b>15. Hydraulic System</b>
15.1. A heavy-duty cast-iron gear pump with a rated capacity of 12 G.P.M. at 1200 R.P.M. should be driven by a hot shift or air shift power takeoff or by the engine crankshaft.
15.2 For extended life of all hydraulic components the maximum operating pressure should not exceed 2600 PSI.
15.3 The hydraulic system should incorporate an adjustable relief in the body valve.
15.4 Hydraulic hoses and tubes should be secured by clamps as required to prevent damage from abrasion and vibration. Hydraulic hoses and tubes should use S.A.E. O-ring boss and JIC 37-degree flare ends for zero leaks.
15.5 Hydraulic hoses should comply with the applicable S.A.E. standards for the designed specifications.
15.6 Hydraulic hoses are to have a 4:1 burst to working pressure safety factor.
15.7 The hydraulic oil reservoir should have a minimum capacity of 20 gallons. The reservoir should be equipped with filler, breather cap, sight glass, clean out cover, 100 mesh suction filter, magnetic tank drain plug and gate valve at the suction outlet. The hydraulic reservoir should not be a structural member of the body or the mount for the ejector cylinder
15.8 A 10-micron Inline Return line filter should be located on the hydraulic tank and be equipped with a condition indicator.
15.9 A suction screen filter of 100 mesh (141 micron) should strain all the oil leaving the tank. Suction filter should be equipped with a 5 P.S.I. bypass valve.
15.10 All hydraulic valves should be sectional that would allow replacement of defective sections without replacement of the entire valve.
15.11 All cylinders and valves should have SAE O-ring boss ports.
<b>16. Hydraulic Cylinders</b>
16.1 All cylinders should have a working pressure rating of 3000 psi
16.2 The sweep and slide cylinders should have hard chrome plated rods.
16.3 The sweep and slide cylinders should carry a minimum full three-year warranty.
16.4 Tailgate cylinders should have hardened chrome plated cylinder rods, and be equipped with restrictors to limit the speed of raising and lowering of the tailgate
16.5 Telescopic cylinders should have chrome plated cylinder sleeves and plungers.
16.6 All cylinders are to operate without direct contact with the compacted load.
<b>17. Electrical</b>
17.1 All electrical wiring should be colour coded and be in a braided harness or loom.
17.2 Electrical harnesses should be connected with a sealed aircraft type electrical connector.
17.3 Electrical wires should be stranded copper type with an SXL covering to remain flexible and resist deterioration.
17.4 Electrical wires should have function printed on the wire for easy identification
17.5 Body electrical system should be protected with its own fuse block.
17.6 All fuses should be ATO type.
17.7 All limit switches should be waterproof to prevent damage from the elements and pressure

<b>Preferred Specifications</b>
washing.
17.8 All lighting should comply with F.M.V.S.S. #108, with an additional set of two stop, tail and turn lights mounted above the hopper on a light bar.
17.9 Clearance, backup, stop and directional lights should be rubber grommet mounted with sealed light housings, lexan lenses, vibration resistant filaments, and unitized sealed quick change prong connections.
17.10 Conspicuity tape should be placed across the hopper loading sill
<b>18. Painting</b>
18.1 All burrs and rough areas are to be ground smooth and all welds peened to remove slag.
18.2 Prior to application of any coating, all surfaces should be thoroughly cleaned and conditioned to paint manufacturer's specifications.
18.3 The body should then be coated with two (2) coats of a self etching epoxy primer.
18.4 Two finish coats of polyurethane enamel should be applied to produce a high gloss finish.
18.5 Body floor should be undercoated with an automatic grade petroleum-based undercoating for a durable, corrosion resistant finish.
<b>19. Miscellaneous</b>
19.1 Back up alarm - Grote part # 73040 97 dBA. The alarm must also sound when the tailgate is not closed.
19.2 Fire extinguisher 2.5lb dry powder ABC type
19.3 Front and rear mud flaps
19.4 2 - LED amber beacon light – Whelen part# R2LPPA, one mounted in the centre of the behind the cab toolbox, visible both front and rear, and one on the rear left side of the body.
19.5 1 – Whelen traffic advisor, arrowhead style 12 light Amber LED to be mounted on the rear of the garbage compactor
19.6 Reverse Camera
19.7 All auxiliary cab switches should be wired from a non-switched source – e.g., direct from battery
<b>20. Warranty, Services &amp; Training</b>
20.1 Provide details of manufacturer's warranty
20.2 Operators Manuals / Service Manuals
20.3 Vendors should have a full parts and service facility within a reasonable distance from the City Garage. State location and distance
20.4 A qualified technician should provide complete training to City personnel at the City Garage. Training should include safety, operation, maintenance and service.
20.5 The vehicle including the chassis and underside of the body should be rust proofed with a product that provides long term protection and does not require continued reapplication of the product. Contractor to provide details of product offered and warranty.
20.6 The Contractor should deliver the vehicles, registered, insured, and plated as per the City's insurance requirements through the City's insurance broker.



## QUOTATION SCHEDULE B

**RFQ Title: Supply and Deliver Garbage Compactor Vehicle**

**RFQ No.: 1220-040-2021-027**

### CONTRACTOR

**Legal Name:** \_\_\_\_\_

**Contact Person and Title:** \_\_\_\_\_

**Business Address:** \_\_\_\_\_

**Business Telephone:** \_\_\_\_\_

**Business Fax:** \_\_\_\_\_

**Business E-Mail Address:** \_\_\_\_\_

TO:

### CITY OF SURREY

City Representative: Richard D. Oppelt, Manager, Procurement Services

Email: [purchasing@surrey.ca](mailto:purchasing@surrey.ca)

1. If this offer is accepted by the City, such offer and acceptance will create a contract as described in:
  - (a) the RFQ;
  - (b) the specifications of Goods set out above and in Schedule A;
  - (c) the General Terms and Conditions; and
  - (d) this Quotation; and
  - (e) other terms, if any, that are agreed to by the parties in writing.
  
2. Capitalized terms used and not defined in this Quotation will have the meanings given to them in the RFQ. Except as specifically modified by this Quotation, all terms, conditions, representations, warranties and covenants as set out in the RFQ will remain in full force and effect.
  
3. I/We have reviewed the RFQ Attachment 1 – Quotation Agreement - Goods. If requested by the City, I/we would be prepared to enter into that Agreement, amended by the following departures (list, if any):



**Section**

**Requested Departure(s) / Alternative(s)**

---

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**Please State Reason For Departure(s):**

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**Changes and Additions to Specifications:**

4. In addition to the warranties provided in Attachment 1 – Quotation Agreement - Goods, this Quotation includes the following warranties:

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5. I/We have reviewed the RFQ Attachment 1 – Quotation Agreement - Goods, Schedule A – Specifications of Goods. If requested by the City, I/we would be prepared to meet those requirements, amended by the following departures (list, if any):

**Section**

**Requested Departure(s) / Alternative(s) / Additions**

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**Please State Reason For Departure(s):**

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**Fees and Payments**

6. The Contractor offers to supply to the City of Surrey the Goods for the prices plus applicable taxes as follows:

Year, Make & Model: \_\_\_\_\_

All costs to meet the preferred specifications shall be included in the following delivered prices.

<b>F.O.B.</b>		<b>Payment Terms:</b>	<b>Ship Via:</b>
Destination Freight Prepaid		A cash discount of ____% will be allowed if invoices are paid within ____ days, or the ____ day of the month following, or net 30 days, on a best effort basis.	
<b>Item</b>	<b>Particulars</b>		<b>Cost per Unit (CDN \$)</b>
1	Price per Unit:		\$
2	Province of B.C. Environmental Levy (Battery):		\$
3	Province of B.C. Advance Disposal Fee (Tires):		\$
4	Air Conditioning Surcharge:		\$
5	Other Fees/Levies (please state):		\$
	a.)		
	b.)		
	c.)		
6	Subtotal:		\$
7	GST (5%) on \$ _____		\$
8	PST (7%) on \$ _____		\$
9	<b>TOTAL QUOTATION PRICE FOR ONE UNIT:</b>		\$
<i>Pricing is firm until (state date):</i>			
<b>ALL PRICING IN CANADIAN DOLLARS</b>			

The completed unit shall be delivered within \_\_\_\_\_ days after receipt of purchase order.

Manufacturer's Warranty: State Warranty \_\_\_\_\_

Body Warranty: State Warranty \_\_\_\_\_

Warranty repairs shall be performed at \_\_\_\_\_

Please complete if applicable: British Columbia Certified

7. In addition to the warranties provided in the Draft Quotation Agreement, this Quotation includes the following warranties:

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8. I/We the undersigned duly authorized representatives of the Contractor, having received and carefully reviewed the RFQ including without limitation the draft Agreement submit this Quotation in response to the RFQ.

**This Quotation** is offered by the Contractor this \_\_\_\_\_ day of \_\_\_\_\_, 2021.

**CONTRACTOR**

I/We have the authority to bind the Contractor.

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(Full Legal Name of Contractor)

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(Signature of Authorized Signatory)

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(Print Name and Position of Authorized Signatory)

Updated: July 2020

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## SCHEDULE B-1 – PREFERRED TECHNICAL SPECIFICATIONS RESPONSE FORM

**PROJECT TITLE:     SUPPLY AND DELIVERY GARBAGE COMPACTOR VEHICLE**

**PROJECT No.:        1220-040-2021-027**

The specification herein states the preferred requirements of the City of Surrey. All Quotations shall be regular in every respect. Unauthorized conditions, limitations, or provisions may be cause for rejection. The City of Surrey will consider as "irregular" or "non-responsive" any Quotation not prepared and submitted in accordance with the RFQ document and specification, or any Quotation lacking sufficient technical literature to enable the City to make a reasonable determination of compliance to the specification.

It shall be the Contractor's responsibility to carefully examine each item of the specification. Failure to offer a completed Quotation or failure to respond to each section of the technical specification may cause the Quotation to be rejected without review as "non-responsive". All variances, exceptions and/or deviations shall be fully described in the appropriate section.

Note: Contractors are directed to list complete manufacturers' details of model proposed in the right-side column under manufacturers' specifications.

<b>Preferred Specifications</b>	<b>Yes (Circle)</b>	<b>No (Circle)</b>	<b>Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.</b>
<b>1. Chassis</b>			
1.1 Colour - White	Y	N	
1.2 Chassis should be a cab over engine configuration with 150" wheelbase approx. & with a 127.5" CA approx. - to be confirmed by garbage compactor supplier, allowing for approximately 30" wide x 48" high toolbox behind cab. Exact dimensions to be confirmed.	Y	N	
1.3 Dual cab mounted exterior mirrors with integral convex mirror – mirrors should be heated	Y	N	
1.4 State chassis make, model and point of manufacture	Y	N	
<b>2. Axles, Suspension, Frame</b>			
2.1 Chassis should be a minimum of approx. 19,500 lbs. GVW rating	Y	N	
2.2 State max towing capacity in lbs.	Y	N	
2.3 Rear axle capacity should be a minimum of 14,400 lbs., with taper leaf springs and shock absorbers	Y	N	

<b>Preferred Specifications</b>	<b>Yes (Circle)</b>	<b>No (Circle)</b>	<b>Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.</b>
2.4 Front axle capacity should be a minimum of 7,275 lbs., with taper leaf springs and shock absorbers	Y	N	
2.5 A load distribution drawing should be provided.	Y	N	
2.6 Differential should be limited slip and comes with synthetic gear oil	Y	N	
<b>3. Engine - Transmission</b>			
3.1 Engine should be prepared (gaseous prep engine) to run on CNG and gasoline, and should comply with all Provincial and Federal engine emission regulations	Y	N	
3.2 Engine should have a minimum power out put of 310 hp, and minimum torque of 350 lb – ft. State engine configuration, size, HP, torque specifications	Y	N	
3.3 Full manufactures warranty with CNG conversion should be provided	Y	N	
3.4 Extended life coolant 50/50 mix. The cooling system should be protected to -34 deg F.	Y	N	
3.5 The vehicles should default to run on CNG, and should only operate on gasoline when the CNG tanks are empty, or if there is a requirement to start the engine on gasoline, until up to normal operating temperature	Y	N	
3.6 Automatic transmission, Allison RDS 1000 model transmission with dual PTO	Y	N	
<b>4. Brakes</b>			
4.1 Brakes should be vacuum/hydraulic type with 4-channel ABS	Y	N	
4.2 Front and rear brakes should be disc type	Y	N	
4.3 Parking brake should be drum/driveline, internal expanding shoes.	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
<b>5. Fuel</b>			
5.1 The manufacturers gasoline fuel tank should remain	Y	N	
5.2 CNG tank(s) should be of a size of at least 24.5 GGE/93GLE (@3600 PSI). Two tanks should be provided to give sufficient operating range under normal operating conditions and should be made of composite material – steel tanks are unacceptable. State tank size	Y	N	
5.3 Tanks are to be mounted in locations which does not interfere with mounting of the garbage compactor.	Y	N	
5.4 CNG fuel tank mounting/placement. The City suggests that one tank is mounted in the toolbox behind the cab in upper most part of the box. The box should be designed and engineered to allow for the mounting in this position. Mounting the cylinder in the upper part of the toolbox allows for tool and equipment storage. The second tank could be mounted on the chassis rail on the driver's side of the vehicle. CNG installer, chassis supplier and garbage compactor supplier should work together to ensure sufficient space is available. All tank mounting must meet relevant regulations. Contractors to provide design drawing as part of the submission including the location of the CNG tanks.	Y	N	
5.5 Fuel gauge for each fuel type should be provided in easy view for the driver	Y	N	
5.6 CNG filling port should be located between the cab and the toolbox with a filling receptacle on both sides of the truck	Y	N	
5.7 Valving should be installed in a suitable location to allow for the CNG system to be de-fueled should the	Y	N	

<b>Preferred Specifications</b>	<b>Yes (Circle)</b>	<b>No (Circle)</b>	<b>Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.</b>
need arise			
5.8 The gasoline tank should remain and should be mounted between the chassis rails at the rear of the chassis. The tank should be constructed from stainless steel with a capacity of approximately 35 gallons	Y	N	
<b>6. Wheels, Tires</b>			
6.1 Rims should be 19.5inch diameter	Y	N	
6.2 Tires should be 225/70R 19.5 - 14 ply all-season tires in all positions – preference to Bridgestone or Michelin tires.	Y	N	
<b>7. Cab</b>			
7.1 Cab interior environment should be fully air-conditioned including a fresh air heater/ventilator/defroster.	Y	N	
7.2 Seats should be breathable cloth covered high back driver's seat with two occupant passenger seats. Seat covers are to be provided	Y	N	
7.3 Cab should have full flow through ventilation for optimal temperature control and operator comfort.	Y	N	
7.4 Wipers should have intermittent feature.	Y	N	
7.5 Power windows and door locks	Y	N	
7.6 Cab should include dash 12volt power outlet	Y	N	
7.7 Cab should include AM/FM/CD radio with (2) speakers and antenna, Bluetooth capable, auxiliary input/USB port	Y	N	
7.8 Rubber Floor Mats should be provided for all seating areas	Y	N	
7.9 Full vision illuminated instrumentation and warning lights, with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge	Y	N	

<b>Preferred Specifications</b>	<b>Yes (Circle)</b>	<b>No (Circle)</b>	<b>Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.</b>
7.10 Keyless entry with 3 sets of keys/fobs	Y	N	
<b>Rear Loading Garbage Compactor</b>			
<b>8. Capacity</b>			
8.1 The capacity of the body should be approximately 6 cubic yards – excluding the hopper	Y	N	
8.2 The minimum capacity of the hopper should be 1.0 cubic yard without the use of a hopper loading sill extension	Y	N	
8.3 The body will allow for the compaction of household waste of 1000 lbs. per cubic yard	Y	N	
<b>9. Body Dimensions</b>			
9.1 Body width of approximately 89 inches	Y	N	
9.2 Inside body width should be 74 inches at the widest point	Y	N	
9.3 Body height of approximately 70 inches above the chassis rail	Y	N	
9.4 The weight of the body, and tailgate should be approximately 7,200 lbs	Y	N	
<b>10. Body Construction</b>			
10.1 The body should have a smooth floor with no trough. No cylinders, valves or other hydraulic components should be exposed to refuse in the body	Y	N	
10.2 The body sides should be fabricated from 10-gauge high tensile steel and be of a curved one-piece design	Y	N	
10.3 The body roof should be fabricated from 10-gauge high tensile steel and be of a curved design	Y	N	
10.4 There should be a 20"x26" door on the driver's side of the body, the door is closed by a spring-loaded latch	Y	N	
10.5 The body floor should be fabricated from 7 gauge hi-tensile steel full width of the body with no depression or trough for an ejector cylinder	Y	N	



Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
10.6 The body should have 8" x 3/16 high tensile steel longitudinal rails, with floor cross members fabricated from 7-gauge high tensile steel	Y	N	
<b>11. Tailgate Dimensions &amp; Construction</b>			
11.1 The hopper should have an opening of 66" wide x 48" high to permit unobstructed loading of the tailgate hopper	Y	N	
11.2 The top of the loading sill should be 2" above the top of the chassis frame to allow for easy loading	Y	N	
11.3 The overall height above the chassis frame with tailgate raised should be 118"	Y	N	
11.4 The length of the tailgate should be 53 1/2"	Y	N	
11.5 The lower tailgate sides should be fabricated from 10-gauge AR235 steel	Y	N	
11.6 The hopper floor and chute should be fabricated from 3/16" AR235 abrasion resistant steel	Y	N	
11.7 The tailgate sides and hopper chute should be reinforced with high tensile steel channels and fully welded	Y	N	
11.8 The tailgate should be secured to the body with tailgate lock bars made of 3/4" high tensile steel. The tailgate locks should operate automatically when the tailgate is moved	Y	N	
11.9 The tailgate seal should extend a minimum of 14" up the body side	Y	N	
11.10 Two grab handles should be located each side of the tailgate	Y	N	
11.11 The rear steps should be fabricated from open grip strut material with a minimum standing surface of 330 square inches per step. The steps should be of a bolt on style and comply with A.N.S.I standards	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
<b>12. Packing Mechanism</b>			
12.1 The packing cycle should be controlled by a two-lever system that allows the operator to start, stop, and reverse the direction of any function at any point during the packing cycle	Y	N	
12.2 The tailgate hydraulic control valve should be under the top covers, and should be a sectional type valve	Y	N	
12.3 The packing blade assembly should consist of two primary components – 1) the slide blade 2) the sweep blade	Y	N	
12.4 The packing blade assemblies should be mounted on four wear shoe assemblies utilizing UHMW poly wear shoes. The shoe assemblies should be replaceable without removing packing blade assembly from the tailgate. The packing blade and the slide blade should be attached by two 2 1/4" DIA. alloy steel pins. These pins should also support the (2) lower wear assemblies.	Y	N	
12.5 The slide blade should be constructed of 3/16" high tensile steel	Y	N	
12.6 The sweep blade should be mounted to the pivot on the slide blade. The sweep blade should be fabricated from high tensile steel, varying in thickness from 10 gauge to 3/8" and the face sheet should be 3/16" T-1	Y	N	
12.7 The packing blades should be powered by two 3 1/2" bore x 1 3/4" rod x 19" stroke sweep hydraulic cylinders	Y	N	
12.8 The packing slide should be powered by two 3 1/2" bore x 1 3/4" rod x 19" stroke sweep hydraulic cylinders	Y	N	
12.9 The hydraulic cylinders will have	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
hardened chrome plated rods			
12.10 The compaction blade cycle should operate in an 18 second cycle, and a 10 second reload time	Y	N	
12.11 Material in the hopper should be compacted between the packing panel assembly and the ejector panel. The ejector panel should hold pressure against the compacted material and will automatically drift forward by a hydraulic load control valve without operator assistance.	Y	N	
12.12 The sweep blade assembly should be protected by a secondary relief valve that is integral to the tailgate mounted control valve.	Y	N	
<b>13. Ejection System</b>			
13.1 The load should be ejected by a double acting, telescopic hydraulic cylinder that should extend and retract the ejector panel the full length of the body without the use of clamp bars or related hardware.	Y	N	
13.2 The ejector cylinder should have the following dimensions: 4 ½" bore x 47" stroke, and be a single stage cylinder	Y	N	
13.3 The ejector panel should have a 10-gauge high tensile steel face sheet that is reinforced by structural steel tubing and formed channels of high tensile steel.	Y	N	
13.4 The ejector panel should be mounted on 2 high-density polyethylene wear shoes that should be replaceable without removing the ejector panel from the body. Metallic type shoes are unacceptable.	Y	N	
13.5 The ejector panel should be guided in the body by two guide tracks located on the body side 5" above the body floor. The tracks should be 4" deep, fabricated from high tensile	Y	N	

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steel and full welded to the body sides.			
13.6 The ejector cylinder should be mounted angularly to the body floor and not require a trough or depression in the floor.	Y	N	
<b>14. Controls</b>			
14.1 The ejector and tailgate lift controls should be mounted at the left front of the body	Y	N	
14.2 Ejector and tailgate controls should be mounted directly to the valve spool.	Y	N	
14.3 A throttle advance switch should be located convenient to the ejector and tailgate lift controls	Y	N	
14.4 The tailgate controls should be located at the right rear of the tailgate. The two-lever design should have positive control of movement of the packing mechanism at all times. The tailgate controls should comply with the applicable A.N.S.I. regulations.	Y	N	
14.5 An automatic throttle advance device should be incorporated with the tailgate controls	Y	N	
<b>15. Hydraulic System</b>			
15.1. A heavy-duty cast-iron gear pump with a rated capacity of 12 G.P.M. at 1200 R.P.M. should be driven by a hot shift or air shift power takeoff or by the engine crankshaft.	Y	N	
15.2 For extended life of all hydraulic components the maximum operating pressure should not exceed 2600 PSI.	Y	N	
15.3 The hydraulic system should incorporate an adjustable relief in the body valve.	Y	N	
15.4 Hydraulic hoses and tubes should be secured by clamps as required to	Y	N	

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prevent damage from abrasion and vibration. Hydraulic hoses and tubes should use S.A.E. O-ring boss and JIC 37-degree flare ends for zero leaks.			
15.5 Hydraulic hoses should comply with the applicable S.A.E. standards for the designed specifications.	Y	N	
15.6 Hydraulic hoses are to have a 4:1 burst to working pressure safety factor.	Y	N	
15.7 The hydraulic oil reservoir should have a minimum capacity of 20 gallons. The reservoir should be equipped with filler, breather cap, sight glass, clean out cover, 100 mesh suction filter, magnetic tank drain plug and gate valve at the suction outlet. The hydraulic reservoir should not be a structural member of the body or the mount for the ejector cylinder	Y	N	
15.8 A 10-micron Inline Return line filter should be located on the hydraulic tank and be equipped with a condition indicator.	Y	N	
15.9 A suction screen filter of 100 mesh (141 micron) should strain all the oil leaving the tank. Suction filter should be equipped with a 5 P.S.I. bypass valve.	Y	N	
15.10 All hydraulic valves should be sectional that would allow replacement of defective sections without replacement of the entire valve.	Y	N	
15.11 All cylinders and valves should have SAE O-ring boss ports.	Y	N	
<b>16. Hydraulic Cylinders</b>			
16.1 All cylinders should have a working pressure rating of 3000 psi	Y	N	
16.2 The sweep and slide cylinders	Y	N	

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should have hard chrome plated rods.			
16.3 The sweep and slide cylinders should carry a minimum full three-year warranty.	Y	N	
16.4 Tailgate cylinders should have hardened chrome plated cylinder rods, and be equipped with restrictors to limit the speed of raising and lowering of the tailgate	Y	N	
16.5 Telescopic cylinders should have chrome plated cylinder sleeves and plungers.	Y	N	
16.6 All cylinders are to operate without direct contact with the compacted load.	Y	N	
<b>17. Electrical</b>			
17.1 All electrical wiring should be colour coded and be in a braided harness or loom.	Y	N	
17.2 Electrical harnesses should be connected with a sealed aircraft type electrical connector.	Y	N	
17.3 Electrical wires should be stranded copper type with an SXL covering to remain flexible and resist deterioration.	Y	N	
17.4 Electrical wires should have function printed on the wire for easy identification	Y	N	
17.5 Body electrical system should be protected with its own fuse block.	Y	N	
17.6 All fuses should be ATO type.	Y	N	
17.7 All limit switches should be waterproof to prevent damage from the elements and pressure washing.	Y	N	
17.8 All lighting should comply with F.M.V.S.S. #108, with an additional set of two stop, tail and turn lights mounted above the hopper on a light bar.	Y	N	
17.9 Clearance, backup, stop and	Y	N	

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directional lights should be rubber grommet mounted with sealed light housings, lexan lenses, vibration resistant filaments, and unitized sealed quick change prong connections.			
17.10 Conspicuity tape should be placed across the hopper loading sill	Y	N	
<b>18. Painting</b>			
18.1 All burrs and rough areas are to be ground smooth and all welds peened to remove slag.	Y	N	
18.2 Prior to application of any coating, all surfaces should be thoroughly cleaned and conditioned to paint manufacturer's specifications.	Y	N	
18.3 The body should then be coated with two (2) coats of a self etching epoxy primer.	Y	N	
18.4 Two finish coats of polyurethane enamel should be applied to produce a high gloss finish.	Y	N	
18.5 Body floor should be undercoated with an automatic grade petroleum-based undercoating for a durable, corrosion resistant finish.	Y	N	
<b>19. Miscellaneous</b>			
19.1 Back up alarm - Grote part # 73040 97 dBA. The alarm must also sound when the tailgate is not closed.	Y	N	
19.2 Fire extinguisher 2.5lb dry powder ABC type	Y	N	
19.3 Front and rear mud flaps	Y	N	
19.4 2 - LED amber beacon light – Whelen part# R2LPPA, one mounted in the centre of the behind the cab toolbox, visible both front and rear, and one on the rear left side of the body.	Y	N	
19.5 1 – Whelen traffic advisor, arrowhead style 12 light Amber LED to be mounted on the rear of the	Y	N	

<b>Preferred Specifications</b>	<b>Yes (Circle)</b>	<b>No (Circle)</b>	<b>Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.</b>
garbage compactor			
19.6 Reverse Camera	Y	N	
19.7 All auxiliary cab switches should be wired from a non-switched source – e.g., direct from battery	Y	N	
<b>20. Warranty, Service &amp; Training</b>			
20.1 Provide details of manufacturer's warranty	Y	N	
20.2 Operators Manuals / Service Manuals	Y	N	
20.3 Vendors should have a full parts and service facility within a reasonable distance from the City Garage. State location and distance	Y	N	
20.4 A qualified technician should provide complete training to City personnel at the City Garage. Training should include safety, operation, maintenance and service.	Y	N	
20.5 The vehicle including the chassis and underside of the body should be rust proofed with a product that provides long term protection and does not require continued reapplication of the product. Contractor to provide details of product offered and warranty.	Y	N	
20.6 The Contractor should deliver the vehicles, registered, insured, and plated as per the City's insurance requirements through the City's insurance broker.	Y	N	

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