



REQUEST FOR QUOTATIONS

Title: SUPPLY & DELIVERY OF ONE OR MORE TANDEM AXLE
CNG FUELED REAR LOAD GARBAGE TRUCK

Reference No.: 1220-040-2017-137

FOR THE SUPPLY OF GOODS

(General Services)

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ATTACHMENT No. 1 – QUOTATION AGREEMENT - GOODS

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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 to Attachment 1 (the "Quotation") for the supply of the goods described in Schedule A to Attachment 1 (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

A Quotation should be labelled with the Contractor's name, RFQ title and number. A Quotation should be submitted in the form attached to this RFQ as Schedule B – Quotation.

The Contractor may submit a Quotation either by email or in a hard copy, as follows:

(a) Email

If the Contractor chooses to submit by email, the Contractor should submit the Quotation electronically in a single pdf file to the City by email at: purchasing@surrey.ca.

PDF emailed Quotations are preferred and the City will confirm receipt of emails. Note that the maximum file size the City can receive is 10Mb. If sending large email attachments, Contractors should phone to confirm receipt. A Contractor bears all risk that the City's equipment functions properly so that the City receives the Quotation.

(b) Hard Copy

If the Contractor chooses NOT to submit by email, the Contractor should submit one original unbound Quotation and one (1) copy (two (2) in total) which should be delivered to the City at the office of:

Name: Richard D. Oppelt, Purchasing Manager
at the following location:

Address: Surrey City Hall
Finance & Technology Department – Purchasing Section
Reception Counter, 5th Floor West
13450 – 104th Avenue, Surrey, B.C., Canada, V3T 1V8

3. DATE

The City would prefer to receive Quotations on or before **January 11, 2018**. The City's office hours are 8:30 a.m. to 4:00 p.m., Monday to Friday, except statutory holidays.

4. INQUIRIES

All inquiries related to this Request for Quotations ("RFQ") should be directed in writing to:

Name: Richard D. Oppelt, Purchasing Manager
Email: purchasing@surrey.ca
Reference: 1220-040-2017-137

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 (the "BC Bid Website") and the City Website at www.surrey.ca (the "City Website") that will form part of this RFQ. It is the responsibility of Contractors to check the BC Bid Website and the City Website 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 and the purchasing representative have signed on behalf of the City. Delivery of the signed agreement by the City may be by fax or pdf e-mail. 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 must 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 AND CITY STAFF

Contractors and their agents will not contact any member of the City Council and City staff 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 ☐enture should be included, and each partner or joint ☐enture 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 venture 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.

-END OF PAGE-

Attachment No. 1 – DRAFT QUOTATION AGREEMENT – GOODS

Reference RFQ Title: Supply and Delivery of One or More Tandem Axle CNG Fueled Garbage Truck

RFQ No.: 1220-040-2017-137

BETWEEN:

CITY OF SURREY
13450 - 104 Avenue
Surrey BC 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;
 - (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
 - (f) "RFQ" means the Request for Quotations.
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) the RFQ;
 - (c) the Quotation; 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:
Attachment No. 1 – Quotation Agreement - Goods
Schedule A – Specification of Goods
Schedule A-1 – Technical Specifications
Schedule B – Quotation
Schedule B1- Preferred Response Form

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 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.
7. Time is of the essence.

PAYMENT

8. Invoices must 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 (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 Sections 11, 12 and 13, 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.

SUBMITTING YOUR ELECTRONIC INVOICE

Please send electronic invoices to the City of Surrey by email to surreyinvoices@surrey.ca

In order to process your payment, the following submission guidelines **must** be met:

- Invoice(s) must be sent as attachments.
- Attachment(s) must be in PDF format.
- PDF attachment(s) must be named: <Company name>_<Invoice Number>.
- Email(s) must not exceed 2MB.

Please Note: failure to meet the guidelines above may result in payment processing delays or in your payment not being processed.

SUBMITTING YOUR INVOICE BY HARD COPY

Please send your hard copy invoices by mail to:

Name: Keith Sharp, Manager, Fleet and Garage
Address: 6651- 148 Street
Surrey, BC, Canada V3S 3C7

DEFICIENCIES

11. 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.
12. 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

13. 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.
- 14. 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.
- 15. 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.
- 16. 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

- 17. 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.

18. 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.
19. 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.
20. 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

21. 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

22. 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

23. If this Agreement includes any inspection, installation or other work on the City's premises by the Contractor, or representative or sub-contractor 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 Contractor 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

24. 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

25. 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

26. 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

27. 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

28. Any notice, report or other document that either party may be required or may wish to give to the other must 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: 6651-148 Street, Surrey, B.C., V3S 3C7
Attention: Keith Sharp, Fleet and Garage Manager
- (b) The Contractor:
Attention:

MERGER AND SURVIVAL

29. 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

30. 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.
31. 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

32. 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.

ENUREMENT

33. 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 _____, 201__.

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 _____, 201__.

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 OF ONE OR MORE CNG FUELLED REAR
LOAD GARBAGE TRUCK**

PROJECT No.: 1220-040-2017-137

1. GENERAL DESCRIPTION

It is the intent of this specification to provide for the purchase of one new and unused tandem axle CNG fueled garbage truck. The trucks should be delivered to the City of Surrey in operating condition.

It is to have a standard road package that meets all legal requirements for operation on public roadways, including the BC Motor Vehicle Act, the Federal Motor Vehicle Safety Act, Work Safe BC Regulations, and to be built in accordance with SAE standards. The vehicle shall be delivered with a current Commercial Vehicle inspection certificate.

2. QUALITY

Truck and body should be manufactured by a company with a registered quality standard no less than ISO 9001.

3. SPECIFICATIONS OF GOODS

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

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

- Supply and Delivery of the One tandem axle CNG fueled rear load garbage truck.
- 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.

4. ALTERNATES AND/OR VARIATIONS TO SPECIFICATIONS

Wherever the specifications state a brand name, make, name of manufacturer, trade name, or Contractor catalogue number, it is for the purpose of establishing a grade or standard. It is not intended to rule out competition from equal brands or makes. If vehicle(s) other than that specified is offered, it is the Contractor's responsibility to provide information in its Quotation that enables the City to confirm equivalency and acceptance.

Except where stated otherwise, the specifications described in **Schedule A-1 – Technical Specifications** describe what is considered necessary to meet the performance requirements of the City and Contractor's should consider this in its Quotation. If the Contractor cannot meet

specifications, the Contractor may identify and offer an alternative which it believes to be an equal or better alternative.

Contractors shall clearly indicate any variances from the City's specifications or conditions and attach descriptive literature.

The City is not obligated to accept any alternatives. The City will determine what constitutes acceptable deviations and overall best value.

5. PRE-DELIVERY AND INSPECTION

Prior to delivery, the vehicle(s) shall be completely inspected and serviced by the Contractor and/or the manufacturer's Service Centre. The Contractor is responsible to ensure the vehicle(s) are thoroughly tested inspected, and that all deviations are corrected prior to delivery. The vehicle(s) shall contain a pre-delivery check sheet showing what operations have been performed on the vehicle(s) by the Contractor. The vehicle(s) are 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(s), upon delivery, for workmanship, appearance, proper functioning of all vehicle(s) and accessories and systems, and conformance to all requirements of the specifications. In the event deficiencies are detected, the vehicle(s) will be rejected and it shall be the Contractor's responsibility to pick-up the vehicle(s) make the necessary corrections and re-deliver the vehicle(s) for a re-inspection and acceptance.

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

6. DELIVERY REQUIREMENTS

The Contractor will deliver the vehicle(s) 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 vehicle(s) 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.

The vehicle(s) 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(s) delivered to an unauthorized location.

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

7. DOCUMENTATION AT TIME OF DELIVERY

The Contractor should provide the following documentation upon delivery:

- **KEYS** – All key [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.

8. TITLE, RISK OF LOSS, FREIGHT

Title of the vehicle(s) shall 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 shall be responsible for customs clearance and payment of any duties and/or taxes owing at time of importation into Canada, as applicable.

SCHEDULE A-1 –TECHNICAL SPECIFICATIONS

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

The specification herein states the minimum preferred specifications of the City of Surrey. All Quotations shall be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection.

Preferred Technical Specifications	
Truck Cab & Chassis	
A. EXTERIOR	
1.	Weight GVWR. 27,000 kgs approx.,
2.	Wheel Base 290" approx. (To fit a 25 cu. yd rear loader body). Please provide details. Dimensions to be confirmed with rear loader supplier for optimal wheelbase
3.	Weight distribution chart and drawing shall be provided
4.	Bumper: Chrome with collapsible ends
5.	Mirrors (Power): Two outside west coast style, Individual heat control from inside cab, stainless steel backs, c/w 2 auxiliary convex mirrors attached to main mirrors, one each side
6.	All lights to comply with Provincial Laws. Front: hi/lo beam headlights Daytime running lights 4 way hazards and directional lamps Cab ID lights ID lights on mirrors.
7.	Rear lights: (included in garbage packer package) LEDs ONLY Combination stop/turn Separate hazard lights License plate light Two reverse lights
8.	Colour, Bright White
9.	Cab, aluminum conventional style, with tilt hood – 112 inch BBC
10.	Fibreglass hood is preferred
11.	Mud Flaps, front and rear of front wheels, behind and in front of rear wheels, shall complete with regulations
12.	Running Boards, with wide cab entry steps
13.	Cab mounted grab handles – both sides
14.	Audible B/U Alarm, Grote part # 73040 97 dBA
15.	Vertical Exhaust,c/w muffler guard, and guarding around any exposed pipe which could pose a burn hazard
16.	Cab drip moldings
17.	Horns, single electric and single outside roof mounted air horn
18.	Right side lower door visibility window
19.	Two beacon lights mounted on garbage compactor, one visible from the front and one from the rear – LED amber Whelen (R2LPPA),
20.	Corrosion protection of frame and cab shall be applied – please provide details of offering
B. INTERIOR & INSTRUMENTS	
1.	Seats (2) – driver and passenger high back with air suspension cloth seats, including seat covers fabric type Wrangler – Fia Saddle Blanket c/w regulation high viz seat belts for both driver and passenger seats
2.	Heater/Defroster/Air Conditioning, Multiple speed 12 Volt
3.	Wipers / Washers, Pulse type / 12 volt electric 2 Gallon reservoir electric washer pump

Preferred Technical Specifications	
4.	Visor, outside mounted on cab, and two padded inside cab
5.	Lights, Interior dome operated by doors and switch
	Instruments full instrumentation as standard on bid model including but not limited to engine low level alarm system, tach, engine hour meter, air pressure gauges and alarm, coolant temp, fuel gauge, transmission temp gauge, gauges as opposed to lights
6.	Controls hand throttle – electronic Power passenger side window
7.	Floor Mats (rubber) for driver and passenger
8.	An aluminum storage box shall be fitted between the drivers and passengers seats for the driver store items. The box shall not interfere with any of the driver controls or displays. A cup holder shall also be attached to the storage box
9.	Radio, AM/FM Stereo with Bluetooth capability
10.	Methane detection system with one sensor in cab, and one engine compartment.
11.	Diagnostic display and data link with 9 pin interface connector
C. CHASSIS, SUSPENSION, AXLES AND BRAKES	
1.	Front axle - set back with 18,000 lbs capacity Suspension – 18,000 lb Flat leaf front suspension, including shock absorbers
2.	Rear axle – Meritor RT-40-14XP rated at 40,000 lbs. R series. Rear axle ratio 6.14 Suspension – Airliner 46,000 lbs including shock absorbers, with chain clearance, Driver controlled diff lock and inter-axle lock
3.	Rear axle spacing shall be 55 inches
4.	Rear axles filled with synthetic gear oil
5.	Brakes (all air operated) – ABS
6.	Front: Drum brakes with automatic slack adjusters, Meritor cam 16.5 x 6 Q+, c/w asbestos free brake linings. Brake stroke indicators shall be fitted and calibrated.
7.	Rear: Drum brakes with automatic slack adjusters, Meritor 16.5 x 7 Q+, drum brakes with automatic slack adjusters, c/w asbestos free brake linings. Brake stroke indicators shall be fitted and calibrated
8.	Compressor 18.7 CFM with internal safety valve,
9.	One valve parking brake system with dash valve control auto neutral and warning indicator
10.	Air tanks mounted in cab entry steps
11.	The chassis and lower part of garbage compactor body shall be rust proofed with a spray on product – details to be provided by proponent
D. WHEELS, TIRES & STEERING	
1.	Front tires 2 @ 385R 22.5 18 Ply, steer type tread XZY-3 (Michelin Only)
2.	Rear tires, 8 @ 11R 22.5 16 ply Michelin X Multi D
3.	Front Wheels 2 @ 22.5 x 12.25 Alcoa LVL
4.	Rear Wheels 8 @ 22.5 x 8.25 Alcoa LVL
5.	Steering (Tilt/Telescopic) Power Steering / Power Assisted
E. ENGINE & TRANSMISSION	
1.	Engine, 320 HP (approx.) Electronic controlled, Peak torque 1000ft./lb @ 1300 rpm, Provide engine spec details - options
2.	CNG low pressure coalescing filter
3.	Cooling System, HD radiator, Horton clutch fan manual on/off, spin-on coolant conditioner, long life coolant All silicone hoses

Preferred Technical Specifications
4. Engine oil filter, combination full flow/bypass
5. Alternator, minimum 275 amp - 12 Volt
6. Starter, 12 Volt Delco Remy
7. Batteries, Minimum 3 – 12 Volt maintenance free 3375 CCA in covered compartment – aluminum cover Night switch shall be provided
8. Transmission, Allison 3000 RDS with PTO provision, synthetic oil filled, provide specs
9. Interlock to prevent use of engine speed-up when transmission is not in neutral.
10. Transmission, temp gauge and water to oil cooler
11. Meritor driveline calculated to torque req. – provide details
12. Interaxle lock required
F. CNG TANKS
1. Shall comply with NFPA52 and CSA B109 regulations
2. Type 3 tanks, 3,600 psi
3. Equipped with a control panel on street side which includes: shutoff valve, high pressure gauge, low pressure gauge, fueling nozzle, defueling nozzle
4. Tank shutoff valves to be accessible without the need to open the top covers
5. Provide pricing and details for: <ul style="list-style-type: none"> • 4 tanks (60DGE), • 5 tanks (75 DGE)
6. Painted aluminum top covers
7. Stainless steel tubing where flexibility is not needed
G. FILTERS, BELTS AND SERIAL NUMBERS
1. Filters: All filters for the first major service for complete truck.
2. Belts: List all belts used on truck.
3. Serial Numbers: List all serial numbers other than truck ID number and what each serial number pertains to.
H. TRAINING
1. At dealer expense, provide training for drivers and mechanics. All expenses paid by dealer.
2. Provide the City of Surrey with access to diagnostic software to trouble shoot and repair faults
I. STANDARDS
1. Vehicle must comply with government regulations and requirements: <ul style="list-style-type: none"> • Federal Government Motor Vehicle Standards • BC Motor Vehicle Act and Regulations • BC Workers' Compensation Board Regulations • BC Emissions Standards • Vehicle shall be delivered with CVIP and scale document • Vehicle shall be delivered, plated and insured through the City of Surrey's Insurance Broker
J. STANDARD WARRANTY (provide details)
1. Engine
2. Power Train
3. Chassis
4. Corrosion
K. EXTENDED WARRANTY (provide specific details & costs), MISCELLANEOUS
1. Extended warranty for: <ul style="list-style-type: none"> • Engine, • Engine emission components • Transmission, power train

Preferred Technical Specifications	
• Chassis	
2. Keys: 3 sets	
3. Number One First Aid Kit (Hard Case)	
4. 5 lb. Fire Extinguisher – Mounted	
Garbage Compactor	
L. BODY CAPACITY AND DIMENSIONS	
1. Garbage compactor body shall be designed for the mounting CNG tanks on the roof of the compactor. The proponent shall confirm the specification they provide meet this criteria.	
2. The capacity shall be 25 cu. yd. excluding hopper area	
3. The body is rounded to permit maximum capacity.	
4. Inside body width is: 90 in	
5. Outside body width is: 96 in	
6. Inside body height is: 91 in	
7. Outside body height above frame: 93 in	
8. Overall length is: 269 in	
9. Outside body height above frame with tailgate raised: 154 in	
10. Approx body weight without options: 15 000 lb	
M. HOPPER	
1. Capacity is approx. 3 cu. yd.	
2. Hopper depth is: 16 in	
3. Hopper opening height is: 62 in	
4. Hopper opening width is: 84 in	
5. Hopper sides thickness is: 3/16 in	
6. Hopper sides steel grade is: 50W	
7. Hopper sides yield strength is: 50 000 psi	
8. Hopper floor thickness is: 3/16 in	
9. Hopper floor steel grade is: 100QT	
10. Hopper floor yield strength is: 100 000 psi	
11. Hopper depth is: 16 in	
12. Hopper opening height is: 62 in	
N. FLOOR CONSTRUCTION	
1. The body incorporates a longitudinal center floor-trough running the entire body length.	
2. Floor-trough thickness is: 5/16 in	
3. Floor-trough steel grade is: 50W	
4. Floor-trough yield strength is: 50 000 psi	
5. Floor sheets thickness is: 1/4 in	
6. Floor sheets steel grade is: 50W	
7. Floor sheets yield strength is: 50 000 psi	
8. The floor sheets have a formed flange that ties into side sheets.	
9. Flange length is: 5-13/16 in	
10. The floor support braces run from the center floor-trough outward.	
11. Number of floor support braces per side: 3	
12. Floor support braces dimensions are: 20-3/8 L x 6 W x 5-1/4 H in	
13. Floor support braces thickness is: 1/2 in	
14. Floor support braces steel grade is: 50W	
15. Floor support braces yield strength is: 50 000 psi	
O. SIDE CONSTRUCTION	
1. The body walls are rounded and smooth, improving resistance and featuring lightness.	
2. The body sides are made of one (1) steel panel with no seams.	
3. Body walls thickness is: 10 ga	
4. Body walls steel grade is: A1011 HSLAS-F GR80	

Preferred Technical Specifications	
5.	Body walls yield strength is: 80 000 psi
6.	An access door is installed at front left corner to permit access inside the body. The door comes with an opening that gives the operator acces to the tailgate lift and ejector control levers without the need to open the door.
7.	Access door thickness is: 11 ga
8.	Access door steel grade is: A1011 CS
9.	Access door opening dimensions are (body access): 32-5/16 W x 29-1/2 H in
10.	The upper right corner of the body opening is partially obstructed to follow the ejector panel shape.
11.	Access door opening dimensions are (levers access): 11 W x 9-1/2 H in
P. ROOF CONSTRUCTION	
1.	The body roof is rounded and made of high yield steel to ensure strength when material is packed against it.
2.	The roof must be designed for the mounting of an equivalent 60 DGE or 75 DGE 3600 psi CNG tanks – provide details and pricing options.
Q. REAR TAILGATE	
1.	The tailgate is operated by two (2) single acting cylinders.
2.	Red light and buzzer (in cab) when tailgate is not closed.
3.	Tailgate cylinders rods are: Chrome plated
4.	Tailgate cylinders bore diameter is: 4 in
5.	Tailgate cylinders rod diameter is: 3-1/2 in
6.	Tailgate cylinders stroke is: 32-11/16 in
7.	The tailgate cylinders are mounted on tailgate side so cylinder rods are protected from debris when the tailgate is opened.
8.	The tailgate cylinders hydraulic lines are equipped with flow restrictors to prevent sudden descent.
9.	The tailgate is held in the closed position by two (2) double lead thread screw clamps.
10.	Screws diameter is: 1-1/4 in
11.	Screws steel grade is: 4340 HR HT
12.	Screws tensil strength is: 140 000 psi
13.	A rubber seal is installed on the tailgate to prevent liquid leakage
14.	Tailgate rubber seal height above trough bottom is: 31-3/4 in
15.	A cab mounted audible alarm is provided to indicate when the tailgate is not closed.
16.	Tailgate safety props are provided.
17.	Tailgate opening height in the propped position is: 24-1/2 in
18.	Bolt-on riding steps are provided on each side with two (2) one (1) inch diameter grab handles.
19.	The steps are made of grip-strut open grate.
20.	Steps vertical adjustment is: 3 in
21.	Steps dimensions are: 35-1/8 L x 7 W x 1-1/2 H in
22.	Distance between tailgate loading sill and top of chassis frame rails is: 5 in
23.	Tailgate pins diameter is: 1-1/2 in
24.	Tailgate pins steel grade is: 4140 CR
25.	Tailgate pins yield strength is: 90 000 psi
26.	Safety props are provided for tailgate.
R. PACKER	
1.	Packer faceplate thickness is: 3/16 in
2.	Packer faceplate steel grade is: 50W
3.	Packer faceplate yield strength is: 50 000 psi
4.	The packer plate is operated by tow (2) double acting cylinders.
5.	Packer cylinders rods are: Chrome plated
6.	Packer cylinders bore diameter is: 4-1/2 in
7.	Packer cylinders rod diameter is: 2-1/2 in
8.	Packer cylinders stroke is: 32-1/2 in
9.	Packer cylinders pins diameter is (packer side): 2 in
10.	Packer cylinders pins steel grade is (packer side): 1045 CR

Preferred Technical Specifications

11. Packer cylinders pins yield strength is (packer side): 79 000 psi
12. Packer cylinders pins diameter is (carrier side): 2 in
13. Packer cylinders pins steel grade is (carrier side): 1045 CR
14. Packer cylinders pins yield strength is (carrier side): 79 000 psi
15. Maximum operating pressure: 2 150 psi
16. Maximum load density is (based on household refuse): 850 lb/cu.yd.
17. There is no pre-compaction of material in the hopper.
18. The packer plate compacts material into the body against the ejector panel and the body roof not into the front portion of the hopper itself. The ejector panel moves toward front of truck as the body is filling up without any assistance from the operator.
19. The packer plate is protected from overload by a relief valve integrated into the packer main valve.
20. Carrier faceplate thickness is: 7 g a
21. Carrier faceplate steel grade is: 50W
22. Carrier faceplate yield strength is: 50 000 psi
23. The carrier plate is operated by two (2) double acting cylinders.
24. Carrier cylinders rods are: Chrome plated
25. Carrier cylinders bore diameter is: 5-1/2 in
26. Carrier cylinders rod diameter is: 2-1/2 in
27. Carrier cylinders stroke is: 37 in
28. Carrier cylinders pins diameter is (carrier side): 2 in
29. Carrier cylinders pins steel grade is (carrier side): 1045 CR
30. Carrier cylinders pins yield strength is (carrier side): 79 000 psi
31. Carrier cylinders pins diameter is (tailgate side): 2 in
32. Carrier cylinders pins steel grade is (tailgate side): 1045 CR
33. Carrier cylinders pins yield strength is (tailgate side): 79 000 psi
34. Packer carrier complete cycle time: 26 - 28 sec
35. Carrier plate rollers diameter is: 5 in
36. Carrier plate rollers steel grade is: 4140 HR
37. Carrier plate rollers yield strength is: 64 000 psi
38. Carrier plate rollers hardness is: 57 - 60 HRC
39. The rollers have grease fittings accessible from external roller access openings.
40. The packing control handles are able to stop and reverse the packing mechanism at any position in the cycle.
41. Auto throttle advance is provided on packing cycle.

S. EJECTION SYSTEM

1. Unloading is executed by a full ejection system.
2. Control lever for ejection is located at front, left side of the body
3. Ejector panel is full height.
4. Ejector panel faceplate thickness is: 3/16 in
5. Ejector panel faceplate steel grade is: 50W
6. Ejector panel faceplate yield strength is: 50 000 psi
7. The ejector panel travels the full length of the body.
8. Ejector cylinder is telescopic and made of multiple - 3 stages
9. Ejector cylinder bore diameter(s) are: 6-1/2 - 5-1/2 - 4-1/2 in
10. Ejector cylinder stroke is: 115-9/16 in
11. Ejector cylinder pin diameter is (body front): 2 in
12. Ejector cylinder pin steel grade is (body front): 1144 CR
13. Ejector cylinder pin yield strength is (body front): 100 000 psi
14. Ejector cylinder pin diameter is (ejector side): 2 in
15. Ejector cylinder pin steel grade is (ejector side): 1144 CR
16. Ejector cylinder pin yield strength is (ejector side): 100 000 psi
17. The ejector cylinder is angled upward from its front mount location to avoid forces being directed into the

Preferred Technical Specifications	
	body floor.
18.	The case end of the cylinder is attached to the ejector panel with full style bearing housing for easy removal and is secured approximately half way up the panel to counter the tipping forces applied by the tailgate packing mechanism.
19.	The ejector panel incorporate a "diamond shaped" deflector structure which enhances compaction by directing material entering from the packing mechanism toward the upper corners of the body
20.	Ejector Panel rides on eight (8) UHMW guide shoes.
21.	Lower shoes length is: 10-1/2 in
22.	Upper shoes length is: 9-7/8 in
23.	The guide shoes are replaceable without removing the ejector panel from the body.
24.	Throttle advance button provided at the front left of the body .
T. HYDRAULIC CONTAINER LIFT ADJUSTMENT	
1.	A hydraulic powered universal lifting device shall be mounted on the centre rear of the hopper for lifting house hold type garbage wheelie bins
2.	The single lever control is mounted to the rear curbside of the tailgate.
3.	A set of container latches and ears shall secure the container while being dumped into the hopper
U. HYDRAULIC SYSTEM	
1.	The hydraulic system is designed to ensure easy maintenance.
2.	The hydraulic system is composed of one (1) remote pump mounted on truck frame rail connected to a hot shift PTO by a 1310 series drive shaft
3.	PTO control is mounted in cab.
4.	Pump maximum flow at 1,200 RPM is approx 42 to 52 gpm with pressure relief set at approx.2150 psi
5.	The hydraulic tank shall be baffled with a capacity of approx. 50 gallons, equipped with ceramic magnetic ring, oil level sight gauge, shut-off valve in suction line and a check valve on return line
6.	The hydraulic tank is located on curbside and mounted on body floor.
7.	Hydraulic tank filler/breather cap shall be 10 mic
8.	Hydraulic tank return line filter element shall be 10 mic, with a replaceable cartridge
9.	Hydraulic tank suction line strainer shall be 125 mic
10.	All hydraulic connections have O-ring face seals on pressure and return lines. Valves and cylinders have SAE O-ring boss ports.
11.	All hoses are double braided wire minimum, high burst capacity and reinforced with nylon wrap to prevent chaping.
12.	Hydraulic tubing shall be zinc plated to prevent corrosion, and used where flexibility is not needed.
13.	All hydraulic tubings are securely clamped to prevent vibration, abrasion and excessive noise.
14.	All hydraulic hoses meet S.A.E. standards for designed pressure and bends respect recommended S.A.E. standards.
15.	Quick connect fitting is provided so that a pressure gauge can be easily connected without the use of tools or the need to remove hydraulic fittings.
16.	Main valve and front valve are spool stack style to allow replacement of defective sections without replacement of the entire valve.
V. ELECTRICAL	
1.	All stop, turn, tail and clearance lights are recessed grommet mounted and watertight.
2.	All lights are provided following FMVSS #108.
3.	Lower rear lights are integrated to tailgate structure.
4.	Back-up alarm is provided - Grote part # 73040 97 dBA
5.	Mid body turn signals are provided
6.	All limit switches are proximity switches.
7.	All circuits are properly protected (circuit breakers).
8.	All wiring is color coded and numbered.
9.	Electric harness connections are Weatherpack connectors.
10.	Electrical Wires are GXL type.
11.	All wiring conforms to SAE J1128.
12.	All wiring connections are sealed with shrink tubes and at some places blue crimps sealed with epoxy.

Preferred Technical Specifications
13. All wiring run in plastic loom.
W. CONTROLS
1. Tailgate lift control is located at the front left corner of the body.
2. Ejector control is located at front left corner of the body.
3. Packing cycle is activated by two (2) levers located curbside on the tailgate.
4. A push button that activate a buzzer in cab is provided on both sides of the tailgate to signal any event to the driver.
5. All body hinges, cylinder rod ends, cylinder bases, trunnions and pivot points are supplied with grease fittings
X. PAINTING
1. Body and hopper will be steel gritblasted, and cleaned properly to ensure all grease and dirt is removed
2. The body shall be painted white, please provide details of the painting process
Y. WARRANTY, MANUALS, TRAINING ETC.
1. Please provide details of warranty
2. Preference will be given to suppliers who have a maintenance and spare parts facility in close proximity to Surrey – provide details on location
3. Provide details on the number of similar units in operation in the greater Vancouver area, and a list of companies which the City can use as a reference.
4. The supplier shall provide training on site at the City of Surrey for operator(s) and mechanical staff
5. Parts, service and operator's manuals are supplied for the refuse packer (CD).
6. One (1) hard copy of the operator's manual is supply with the refuse packer.

-END OF PAGE-



SCHEDULE B – FORM OF QUOTATION

RFQ Title: SUPPLY & DELIVERY OF ONE OR MORE TANDEM AXLE CNG FUELED REAR
LOAD GARBAGE TRUCK

RFQ No: 1220-040-2017-137

CONTRACTOR

Legal Name: _____

Address: _____

Phone: _____

Fax: _____

Email: _____

CITY OF SURREY

TO:

City Representative: Richard D. Oppelt
Purchasing Manager

Address: Surrey City Hall
Finance & Technology Department – Purchasing Section
Reception Counter, 5th Floor West
13450 – 104th Avenue, Surrey, B.C., V3T 1V8

Telephone: 604-590-7274

Email: purchasing@surrey.ca

1. 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 should be included in the following delivered prices.

"Without Trade/s"

CAB & CHASSIS PRICE: \$ _____

GARBAGE COMPACTOR PRICE: \$ _____

ENVIRONMENTAL LEVIES: \$ _____
BATTERY:

TIRE STEWARDSHIP B.C. (TSBC): \$ _____

AIR CONDITIONING: \$ _____

ANY OTHER LEVIES OR FEES: \$ _____

SUB-TOTAL: \$ _____

GST 5% \$ _____

PST 7% \$ _____

TOTAL QUOTED PRICE: \$ _____

Payment Terms:

A cash discount of _____ % will be allowed if the invoices is paid within _____ days, or the ____ day of the month following, or net 30 days, on a best effort basis.

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

Complete Vehicle: State Warranty (no less than one (1) year) _____

Extended Warranty Options:

Warranty repairs shall be performed at _____

2. 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 set out above and in Schedule A of the RFQ;
 - (c) the General Terms and Conditions;
 - (d) this Quotation; and
 - (e) other terms, if any, that are agreed to by the parties in writing.
3. 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.
4. I/We the undersigned duly authorized representatives of the Contractor, having received and carefully reviewed the RFQ including without limitation the Specifications and the General Terms and Conditions, submit this Quotation in response to the RFQ.

-END OF PAGE-

This Quotation is offered by the Contractor this _____ day of _____, 201__.

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 is accepted by the City this _____ day of _____, 201__.

CITY OF SURREY

(Signature of Authorized Signatory)

(Signature of Purchasing Representative)

(Print Name and Position of Authorized Signatory)

(Print Name of Purchasing Representative)

(Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory)

SCHEDULE B-1 – PREFERRED SPECIFICATIONS RESPONSE FORM

SUPPLY & DELIVERY OF ONE OR MORE TANDEM AXLE CNG FUELED REAR LOAD GARBAGE TRUCK

SPECIFICATIONS

The specification herein states the minimum requirements of the City of Surrey. All Quotations shall be regular in every respect. Unauthorized conditions, limitations, or provisions shall 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

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
Truck Cab & Chassis			
A. EXTERIOR			
1. Weight GVWR. 27,000 kgs approx.,	Y	N	
2. Wheel Base 290" approx. (To fit a 25 cu. yd rear loader body). Please provide details. Dimensions to be confirmed with rear loader supplier for optimal wheelbase	Y	N	
3. Weight distribution chart and drawing shall be provided	Y	N	
4. Bumper: Chrome with collapsible ends	Y	N	
5. Mirrors (Power): Two outside west coast style, Individual heat control from inside cab, stainless steel backs, c/w 2 auxiliary convex mirrors attached to main mirrors, one each side	Y	N	
6. All lights to comply with Provincial Laws. Front: hi/lo beam headlights Daytime running lights 4 way hazards and directional lamps Cab ID lights ID lights on mirrors.	Y	N	
7. Rear lights: (included in garbage packer package) LEDs ONLY	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
Combination stop/turn Separate hazard lights License plate light Two reverse lights			
8. Colour, Bright White	Y	N	
9. Cab, aluminum conventional style, with tilt hood – 112 inch BBC	Y	N	
10. Fibreglass hood is preferred	Y	N	
11. Mud Flaps, front and rear of front wheels, behind and in front of rear wheels, shall complete with regulations	Y	N	
12. Running Boards, with wide cab entry steps	Y	N	
13. Cab mounted grab handles – both sides	Y	N	
14. Audible B/U Alarm, Grote part # 73040 97 dBA	Y	N	
15. Vertical Exhaust,c/w muffler guard, and guarding around any exposed pipe which could pose a burn hazard	Y	N	
16. Cab drip moldings	Y	N	
17. Horns, single electric and single outside roof mounted air horn	Y	N	
18. Right side lower door visibility window	Y	N	
19. Two beacon lights mounted on garbage compactor, one visible from the front and one from the rear – LED amber Whelen (R2LPPA),	Y	N	
20. Corrosion protection of frame and cab shall be applied – please provide details of offering	Y	N	
B. INTERIOR & INSTRUMENTS			
1. Seats (2) – driver and passenger high back with air suspension cloth seats, including seat covers fabric type Wrangler – Fia Saddle Blanket c/w regulation high viz seat belts for both driver and passenger seats	Y	N	
2. Heater/Defroster/Air Conditioning, Multiple speed 12 Volt	Y	N	
3. Wipers / Washers, Pulse type / 12 volt electric 2 Gallon reservoir electric washer pump	Y	N	
4. Visor, outside mounted on cab, and two padded inside cab	Y	N	
5. Lights, Interior dome operated by doors and switch	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
Instruments full instrumentation as standard on bid model including but not limited to engine low level alarm system tach, engine hour meter, air pressure gauges and alarm, coolant temp, fuel gauge, transmission temp gauge, gauges as opposed to lights	Y	N	
6. Controls hand throttle – electronic Power passenger side window	Y	N	
7. Floor Mats (rubber) for driver and passenger	Y	N	
8. An aluminum storage box shall be fitted between the drivers and passengers seats for the driver store items. The box shall not interfere with any of the driver controls or displays. A cup holder shall also be attached to the storage box	Y	N	
9. Radio, AM/FM Stereo with Bluetooth capability	Y	N	
10. Methane detection system with one sensor in cab, and one engine compartment.	Y	N	
11. Diagnostic display and data link with 9 pin interface connector	Y	N	
C. CHASSIS, SUSPENSION, AXLES AND BRAKES			
1. Front axle - set back with 18,000 lbs capacity Suspension – 18,000 lb Flat leaf front suspension, including shock absorbers	Y	N	
2. Rear axle – Meritor RT-40-14XP rated at 40,000 lbs. R series. Rear axle ratio 6.14 Suspension – Airliner 46,000 lbs including shock absorbers, with chain clearance, Driver controlled diff lock and inter-axle lock	Y	N	
3. Rear axle spacing shall be 55 inches	Y	N	
4. Rear axles filled with synthetic gear oil	Y	N	
5. Brakes (all air operated) – ABS	Y	N	
6. Front: Drum brakes with automatic slack adjusters, Meritor cam 16.5 x 6 Q+, c/w asbestos free brake linings. Brake stroke	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
indicators shall be fitted and calibrated.			
7. Rear: Drum brakes with automatic slack adjusters, Meritor 16.5 x 7 Q+, drum brakes with automatic slack adjusters, c/w asbestos free brake linings. Brake stroke indicators shall be fitted and calibrated	Y	N	
8. Compressor 18.7 CFM with internal safety valve,	Y	N	
9. One valve parking brake system with dash valve control auto neutral and warning indicator	Y	N	
10. Air tanks mounted in cab entry steps	Y	N	
11. The chassis and lower part of garbage compactor body shall be rust proofed with a spray on product – details to be provided by proponent	Y	N	
D. WHEELS, TIRES & STEERING			
1. Front tires 2 @ 385R 22.5 18 Ply, steer type tread XZY-3 (Michelin Only)	Y	N	
2. Rear tires, 8 @ 11R 22.5 16 ply Michelin X Multi D	Y	N	
3. Front Wheels 2 @ 22.5 x 12.25 Alcoa LVL	Y	N	
4. Rear Wheels 8 @ 22.5 x 8.25 Alcoa LVL	Y	N	
5. Steering (Tilt/Telescopic) Power Steering / Power Assisted	Y	N	
E. ENGINE & TRANSMISSION			
1. Engine, 320 HP (approx.) Electronic controlled, Peak torque 1000ft./lb @ 1300 rpm, Provide engine spec details - options	Y	N	
2. CNG low pressure coalescing filter	Y	N	
3. Cooling System, HD radiator, Horton clutch fan manual on/off, spin-on coolant conditioner, long life coolant All silicone hoses	Y	N	
4. Engine oil filter, combination full flow/bypass	Y	N	
5. Alternator, minimum 275 amp - 12 Volt	Y	N	
6. Starter, 12 Volt Delco Remy	Y	N	
7. Batteries, Minimum 3 – 12 Volt	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
maintenance free 3375 CCA in covered compartment – aluminum cover Night switch shall be provided			
8. Transmission, Allison 3000 RDS with PTO provision, synthetic oil filled, provide specs	Y	N	
9. Interlock to prevent use of engine speed- up when transmission is not in neutral.	Y	N	
10. Transmission, temp gauge and water to oil cooler	Y	N	
11. Meritor driveline calculated to torque req. – provide details	Y	N	
12. Interaxle lock required	Y	N	
F. CNG TANKS			
1. Shall comply with NFPA52 and CSA B109 regulations	Y	N	
2. Type 3 tanks, 3,600 psi	Y	N	
3. Equipped with a control panel on street side which includes: shutoff valve, high pressure gauge, low pressure gauge, fueling nozzle, defueling nozzle	Y	N	
4. Tank shutoff valves to be accessible without the need to open the top covers	Y	N	
5. Provide pricing and details for: <ul style="list-style-type: none"> • 4 tanks (60DGE), • 5 tanks (75 DGE) 	Y	N	
6. Painted aluminum top covers	Y	N	
7. Stainless steel tubing where flexibility is not needed	Y	N	
G. FILTERS, BELTS AND SERIAL NUMBERS			
1. Filters: All filters for the first major service for complete truck.	Y	N	
2. Belts: List all belts used on truck.	Y	N	
3. Serial Numbers: List all serial numbers other than truck ID number and what each serial number pertains to.	Y	N	
H. TRAINING			
1. At dealer expense, provide training for drivers and mechanics. All expenses paid by dealer.	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
2. Provide the City of Surrey with access to diagnostic software to trouble shoot and repair faults	Y	N	
I. STANDARDS			
1. Vehicle must comply with government regulations and requirements: <ul style="list-style-type: none"> Federal Government Motor Vehicle Standards BC Motor Vehicle Act and Regulations BC Workers' Compensation Board Regulations BC Emissions Standards Vehicle shall be delivered with CVIP and scale document Vehicle shall be delivered, plated and insured through the City of Surrey's Insurance Broker 	Y	N	
J. STANDARD WARRANTY (provide details)			
1. Engine 2. Power Train 3. Chassis 4. Corrosion	Y	N	
K. EXTENDED WARRANTY (provide specific details & costs), MISCELLANEOUS			
1. Extended warranty for: <ul style="list-style-type: none"> Engine, Engine emission components Transmission, power train Chassis 	Y	N	
2. Keys: 3 sets	Y	N	
3. Number One First Aid Kit (Hard Case)	Y	N	
4. 5 lb. Fire Extinguisher – Mounted	Y	N	
Garbage Compactor			
L. BODY CAPACITY AND DIMENSIONS			
1. Garbage compactor body shall be designed for the mounting CNG tanks on the roof of the compactor. The proponent shall confirm the specification they provide meet this criteria.	Y	N	
2. The capacity shall be 25 cu. yd. excluding hopper area	Y	N	
3. The body is rounded to permit maximum capacity.	Y	N	
4. Inside body width is: 90 in	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
5. Outside body width is: 96 in	Y	N	
6. Inside body height is: 91 in	Y	N	
7. Outside body height above frame: 93 in	Y	N	
8. Overall length is: 269 in	Y	N	
9. Outside body height above frame with tailgate raised: 154 in	Y	N	
10. Approx body weight without options: 15,000 lb	Y	N	
M. HOPPER			
1. Capacity is approx. 3 cu. yd.	Y	N	
2. Hopper depth is: 16 in	Y	N	
3. Hopper opening height is: 62 in	Y	N	
4. Hopper opening width is: 84 in	Y	N	
5. Hopper sides thickness is: 3/16 in	Y	N	
6. Hopper sides steel grade is: 50W	Y	N	
7. Hopper sides yield strength is: 50 000 psi	Y	N	
8. Hopper floor thickness is: 3/16 in	Y	N	
9. Hopper floor steel grade is: 100QT	Y	N	
10. Hopper floor yield strength is: 100 000 psi	Y	N	
11. Hopper depth is: 16 in	Y	N	
12. Hopper opening height is: 62 in	Y	N	
N. FLOOR CONSTRUCTION			
1. The body incorporates a longitudinal center floor-trough running the entire body length.	Y	N	
2. Floor-trough thickness is: 5/16 in	Y	N	
3. Floor-trough steel grade is: 50W	Y	N	
4. Floor-trough yield strength is: 50 000 psi	Y	N	
5. Floor sheets thickness is: 1/4 in	Y	N	
6. Floor sheets steel grade is: 50W	Y	N	
7. Floor sheets yield strength is: 50 000 psi	Y	N	
8. The floor sheets have a formed flange that ties into side sheets.	Y	N	
9. Flange length is: 5-13/16 in	Y	N	
10. The floor support braces run from the center floor-trough outward.	Y	N	
11. Number of floor support braces per side: 3	Y	N	
12. Floor support braces dimensions are: 20- 3/8 L x 6 W x 5-1/4 H in	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
13. Floor support braces thickness is: 1/2 in	Y	N	
14. Floor support braces steel grade is: 50W	Y	N	
15. Floor support braces yield strength is: 50 000 psi	Y	N	
O. SIDE CONTSTRUCTION			
1. The body walls are rounded and smooth, improving resistance and featuring lightness.	Y	N	
2. The body sides are made of one (1) steel panel with no seams.	Y	N	
3. Body walls thickness is: 10 ga	Y	N	
4. Body walls steel grade is: A1011 HSLAS- F GR80	Y	N	
5. Body walls yield strength is: 80 000 psi	Y	N	
6. An access door is installed at front left corner to permit access inside the body. The door comes with an opening that gives the operator acces to the tailgate lift and ejector control levers without the need to open the door.	Y	N	
7. Access door thickness is: 11 ga	Y	N	
8. Access door steel grade is: A1011 CS	Y	N	
9. Access door opening dimensions are (body access): 32-5/16 W x 29-1/2 H in	Y	N	
10. The upper right corner of the body opening is partially obstructed to follow the ejector panel shape.	Y	N	
11. Access door opening dimensions are (levers access): 11 W x 9-1/2 H in	Y	N	
P. ROOF CONSTRUCTION			
1. The body roof is rounded and made of high yield steel to ensure strength when material is packed against it.	Y	N	
2. The roof must be designed for the mounting of an equivalent 60 DGE or 75 DGE 3600psi CNG tanks – provide details and pricing options.	Y	N	
Q. REAR TAILGATE			
1. The tailgate is operated by two (2) single acting cylinders.	Y	N	
2. Red light and buzzer (in cab) when tailgate is not closed.	Y	N	
3. Tailgate cylinders rods are: Chrome plated	Y	N	
4. Tailgate cylinders bore diameter is: 4 in	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
5. Tailgate cylinders rod diameter is: 3-1/2 in	Y	N	
6. Tailgate cylinders stroke is: 32-11/16 in	Y	N	
7. The tailgate cylinders are mounted on tailgate side so cylinder rods are protected from debris when the tailgate is opened.	Y	N	
8. The tailgate cylinders hydraulic lines are equipped with flow restrictors to prevent sudden descent.	Y	N	
9. The tailgate is held in the closed position by two (2) double lead thread screw clamps.	Y	N	
10. Screws diameter is: 1-1/4 in	Y	N	
11. Screws steel grade is: 4340 HR HT	Y	N	
12. Screws tensile strength is: 140 000 psi	Y	N	
13. A rubber seal is installed on the tailgate to prevent liquid leakage	Y	N	
14. Tailgate rubber seal height above trough bottom is: 31-3/4 in	Y	N	
15. A cab mounted audible alarm is provided to indicate when the tailgate is not closed.	Y	N	
16. Tailgate safety props are provided.	Y	N	
17. Tailgate opening height in the propped position is: 24-1/2 in	Y	N	
18. Bolt-on riding steps are provided on each side with two (2) one (1) inch diameter grab handles.	Y	N	
19. The steps are made of grip-strut open grate.	Y	N	
20. Steps vertical adjustment is: 3 in	Y	N	
21. Steps dimensions are: 35-1/8 L x 7 W x 1-1/2 H in	Y	N	
22. Distance between tailgate loading sill and top of chassis frame rails is: 5 in	Y	N	
23. Tailgate pins diameter is: 1-1/2 in	Y	N	
24. Tailgate pins steel grade is: 4140 CR	Y	N	
25. Tailgate pins yield strength is: 90 000 psi	Y	N	
26. Safety props are provided for tailgate.	Y	N	
R. PACKER			
1. Packer faceplate thickness is: 3/16 in	Y	N	
2. Packer faceplate steel grade is: 50W	Y	N	
3. Packer faceplate yield strength is: 50 000 psi	Y	N	
4. The packer plate is operated by two (2) double acting cylinders.	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
5. Packer cylinders rods are: Chrome plated	Y	N	
6. Packer cylinders bore diameter is: 4-1/2 in	Y	N	
7. Packer cylinders rod diameter is: 2-1/2 in	Y	N	
8. Packer cylinders stroke is: 32-1/2 in	Y	N	
9. Packer cylinders pins diameter is (packer side): 2 in	Y	N	
10. Packer cylinders pins steel grade is (packer side): 1045 CR	Y	N	
11. Packer cylinders pins yield strength is (packer side): 79 000 psi	Y	N	
12. Packer cylinders pins diameter is (carrier side): 2 in	Y	N	
13. Packer cylinders pins steel grade is (carrier side): 1045 CR	Y	N	
14. Packer cylinders pins yield strength is (carrier side): 79 000 psi	Y	N	
15. Maximum operating pressure: 2 150 psi	Y	N	
16. Maximum load density is (based on household refuse): 850 lb/cu.yd.	Y	N	
17. There is no pre-compaction of material in the hopper.	Y	N	
18. The packer plate compacts material into the body against the ejector panel and the body roof not into the front portion of the hopper itself. The ejector panel moves toward front of truck as the body is filling up without any assistance from the operator.	Y	N	
19. The packer plate is protected from overload by a relief valve integrated into the packer main valve.	Y	N	
20. Carrier faceplate thickness is: 7 g a	Y	N	
21. Carrier faceplate steel grade is: 50W	Y	N	
22. Carrier faceplate yield strength is: 50 000 psi	Y	N	
23. The carrier plate is operated by two (2) double acting cylinders.	Y	N	
24. Carrier cylinders rods are: Chrome plated	Y	N	
25. Carrier cylinders bore diameter is: 5-1/2 in	Y	N	
26. Carrier cylinders rod diameter is: 2-1/2 in	Y	N	
27. Carrier cylinders stroke is: 37 in	Y	N	
28. Carrier cylinders pins diameter is (carrier side): 2 in	Y	N	
29. Carrier cylinders pins steel grade is (carrier side): 1045 CR	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
30. Carrier cylinders pins yield strength is (carrier side): 79 000 psi	Y	N	
31. Carrier cylinders pins diameter is (tailgate side): 2 in	Y	N	
32. Carrier cylinders pins steel grade is (tailgate side): 1045 CR	Y	N	
33. Carrier cylinders pins yield strength is (tailgate side): 79 000 psi	Y	N	
34. Packer carrier complete cycle time: 26 - 28 sec	Y	N	
35. Carrier plate rollers diameter is: 5 in	Y	N	
36. Carrier plate rollers steel grade is: 4140 HR	Y	N	
37. Carrier plate rollers yield strength is: 64 000 psi	Y	N	
38. Carrier plate rollers hardness is: 57 - 60 HRC	Y	N	
39. The rollers have grease fittings accessible from external roller access openings.	Y	N	
40. The packing control handles are able to stop and reverse the packing mechanism at any position in the cycle.	Y	N	
41. Auto throttle advance is provided on packing cycle.	Y	N	
S. EJECTION SYSTEM			
1. Unloading is executed by a full ejection system.	Y	N	
2. Control lever for ejection is located at front, left side of the body	Y	N	
3. Ejector panel is full height.	Y	N	
4. Ejector panel faceplate thickness is: 3/16 in	Y	N	
5. Ejector panel faceplate steel grade is: 50W	Y	N	
6. Ejector panel faceplate yield strength is: 50 000 psi	Y	N	
7. The ejector panel travels the full length of the body.	Y	N	
8. Ejector cylinder is telescopic and made of multiple - 3 stages	Y	N	
9. Ejector cylinder bore diameter(s) are: 6- 1/2 - 5-1/2 - 4-1/2 in	Y	N	
10. Ejector cylinder stroke is: 115-9/16 in	Y	N	
11. Ejector cylinder pin diameter is (body front): 2 in	Y	N	
12. Ejector cylinder pin steel grade is (body front): 1144 CR	Y	N	
13. Ejector cylinder pin yield strength is (body front): 100 000 psi	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
14. Ejector cylinder pin diameter is (ejector side): 2 in	Y	N	
15. Ejector cylinder pin steel grade is (ejector side): 1144 CR	Y	N	
16. Ejector cylinder pin yield strength is (ejector side): 100 000 psi	Y	N	
17. The ejector cylinder is angled upward from its front mount location to avoid forces being directed into the body floor.	Y	N	
18. The case end of the cylinder is attached to the ejector panel with full style bearing housing for easy removal and is secured approximately half way up the panel to counter the tipping forces applied by the tailgate packing mechanism.	Y	N	
19. The ejector panel incorporate a "diamond shaped" deflector structure which enhances compaction by directing material entering from the packing mechanism toward the upper corners of the body	Y	N	
20. Ejector Panel rides on eight (8) UHMW guide shoes.	Y	N	
21. Lower shoes length is: 10-1/2 in	Y	N	
22. Upper shoes length is: 9-7/8 in	Y	N	
23. The guide shoes are replaceable without removing the ejector panel from the body.	Y	N	
24. Throttle advance button provided at the front left of the body .	Y	N	
T. HYDRAULIC CONTAINER LIFT ATTACHMENT			
1. A hydraulic powered universal lifting device shall be mounted on the centre rear of the hopper for lifting house hold type garbage wheelie bins	Y	N	
2. The single lever control is mounted to the rear curbside of the tailgate.	Y	N	
3. A set of container latches and ears shall secure the container while being dumped into the hopper	Y	N	
U. HYDRAULIC SYSTEM			
1. The hydraulic system is designed to ensure easy maintenance.	Y	N	
2. The hydraulic system is composed of one (1) remote pump mounted on truck frame rail connected to a hot shift PTO by a 1310 series drive shaft	Y	N	
3. PTO control is mounted in cab.	Y	N	
4. Pump maximum flow at 1,200 RPM is approx 42 to 52 gpm with pressure relief	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
set at approx.2150 psi			
5. The hydraulic tank shall be baffled with a capacity of approx. 50 gallons, equipped with ceramic magnetic ring, oil level sight gauge, shut-off valve in suction line and a check valve on return line	Y	N	
6. The hydraulic tank is located on curbside and mounted on body floor.	Y	N	
7. Hydraulic tank filler/breather cap shall be 10 mic	Y	N	
8. Hydraulic tank return line filter element shall be 10 mic, with a replaceable cartridge	Y	N	
9. Hydraulic tank suction line strainer shall be 125 mic	Y	N	
10. All hydraulic connections have O-ring face seals on pressure and return lines. Valves and cylinders have SAE O-ring boss ports.	Y	N	
11. All hoses are double braided wire minimum, high burst capacity and reinforced with nylon wrap to prevent chaping.	Y	N	
12. Hydraulic tubing shall be zinc plated to prevent corrosion, and used where flexibility is not needed.	Y	N	
13. All hydraulic tubings are securely clamped to prevent vibration, abrasion and excessive noise.	Y	N	
14. All hydraulic hoses meet S.A.E. standards for designed pressure and bends respect recommended S.A.E. standards.	Y	N	
15. Quick connect fitting is provided so that a pressure gauge can be easily connected without the use of tools or the need to remove hydraulic fittings.	Y	N	
16. Main valve and front valve are spool stack style to allow replacement of defective sections without replacement of the entire valve.	Y	N	
V. ELECTRICAL			
1. All stop, turn, tail and clearance lights are recessed grommet mounted and watertight.	Y	N	
2. All lights are provided following FMVSS #108.	Y	N	
3. Lower rear lights are integrated to tailgate structure.	Y	N	
4. Back-up alarm is provided - Grote part # 73040 97 dBA	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
5. Mid body turn signals are provided	Y	N	
6. All limit switches are proximity switches.	Y	N	
7. All circuits are properly protected (circuit breakers).	Y	N	
8. All wiring is color coded and numbered.	Y	N	
9. Electric harness connections are Weatherpack connectors.	Y	N	
10. Electrical Wires are GXL type.	Y	N	
11. All wiring conforms to SAE J1128.	Y	N	
12. All wiring connections are sealed with shrink tubes and at some places blue crimps sealed with epoxy.	Y	N	
13. All wiring run in plastic loom.	Y	N	
W. CONTROLS			
1. Tailgate lift control is located at the front left corner of the body.	Y	N	
2. Ejector control is located at front left corner of the body.	Y	N	
3. Packing cycle is activated by two (2) levers located curbside on the tailgate.	Y	N	
4. A push button that activate a buzzer in cab is provided on both sides of the tailgate to signal any event to the driver.	Y	N	
5. All body hinges, cylinder rod ends, cylinder bases, trunnions and pivot points are supplied with grease fittings	Y	N	
X. PAINTING			
1. Body and hopper will be steel gritblasted, and cleaned properly to ensure all grease and dirt is removed	Y	N	
2. The body shall be painted white, please provide details of the painting process	Y	N	
Y. WARRANTY, MANUALS, TRAINING ETC.			
1. Please provide details of warranty	Y	N	
2. Preference will be given to suppliers who have a maintenance and spare parts facility in close proximity to Surrey – provide details on location	Y	N	
3. Provide details on the number of similar units in operation in the greater Vancouver area, and a list of companies which the City can use as a reference.	Y	N	
4. The supplier shall provide training on site at the City of Surrey for operator(s) and mechanical staff	Y	N	
5. Parts, service and operator's manuals are supplied for the refuse packer (CD).	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
6. One (1) hard copy of the operator's manual is supply with the refuse packer.	Y	N	

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