



**REQUEST FOR QUOTATION 5157Q  
SUPPLY & DELIVERY OF 1 (ONE) TANDEM AXLE CAB AND CHASSIS C/W DUMP  
BOX AND FRONT PLOUGH**

Quotations will be received at the Information Counter, Main Floor, Richmond City Hall, addressed to the Purchasing Section, 6911 No. 3 Road, Richmond, BC, V6Y 2C1, until

**Thursday, September 4, 2014 12:00pm local time**

**NOTES:**

1. Three (3) copies of quotations shall be in a sealed envelope or package marked with the bidder's Name, the RFQ Title and Number.
2. The Closing time will be conclusively deemed to be the time shown on the clock used by the City for this purpose.
3. Faxed quotations will not be received or considered.

All queries related to the RFQ shall be submitted  
in writing to the attention of:

email: [purchasing@richmond.ca](mailto:purchasing@richmond.ca)

**The deadline for all enquiries is: Tuesday, August 26, 2014 12:00 pm local time,**

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## PART A – INSTRUCTIONS TO BIDDERS

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### PART A – INSTRUCTIONS TO BIDDERS

#### **1.0 Description of Requirement**

- 1.1 Quotations are invited for supply & delivery of 1 (one) tandem axle cab and chassis c/w dump box and front plough as set out herein, for the City of Richmond.
- 1.2 Bidders are required to submit a quotation for the full requirement only. Partial responses will be put aside and given no further consideration.

#### **2.0 Pricing**

- 2.1 Prices quoted will be in Canadian currency and exclusive of all taxes, F.O.B. destination to the sites named herein, with all freight, unloading at destination, import duties, brokerage, royalties, handling, overhead, profit and all other costs included.

#### **3.0 Inquiries and Clarifications**

- 3.1 Inquiries are to be in written form only and e-mailed to the contact persons shown on the cover page. If required, an amendment or addendum may be issued to Bidders. However, it is the sole responsibility of the Bidder to thoroughly examine these documents, and amendments and addenda and to satisfy itself as to the full Requirements of this Request for Quotation (“RFQ”).
- 3.2 The City, its agents, consultants, elected officials and employees shall not be responsible for any information given by way of oral or verbal communication.
- 3.3 The City will only respond to questions that are submitted in writing. Any questions that are received and answered by City Staff that affect the RFQ process, any interpretation of, additions to, deletions from, or any other corrections to the Request for Quotation document, may be issued as written addenda by the City. It is the sole responsibility of the potential Proponents to check the following websites to ensure that all available information has been received prior to submitting a Quotation:
  - a) BC Bid: <http://www.bcbid.gov.bc.ca/open.dll/welcome?language=En>
  - b) City’s website: <http://www.richmond.ca/busdev/tenders.htm>
- 3.4 The decision to issue or not issue an addendum is entirely at the sole discretion of the City.

## PART A – INSTRUCTIONS TO BIDDERS

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### 4.0 Submission of Quotation

- 4.1 The response to this Request for Quotations (RFQ) with all accompanying schedules, appendices or addenda submitted by the Bidder will be received up to the closing time on the date and in the place shown on the title page of this RFQ (the “Closing Time”). The Quotation shall be submitted on the forms provided in a sealed envelope or package, marked with the Bidder’s name and the RFQ title and number.
- 4.2 Quotations received after the Closing Time or in locations other than the address indicated, will not be accepted and will be returned unopened.
- 4.3 The Bidder shall submit three (3) copies of its Quotation in accordance with the instructions stated herein.
- 4.4 The Bidder must enter its corporate or legal business name on the final page of the Quotation Form. The Quotation Form must be signed in the place provided by an officer or employee having authority to bind the Bidder to the terms and conditions of this RFQ. All other pages of the Quotation Form must be initialled by the authorized signatory in the spaces provided.
- 4.5 Amendments to a Quotation may be submitted if delivered in writing prior to the Closing Time in a sealed envelope or package, marked with the Bidder’s name and the RFQ title and number.
- 4.6 Quotations may be withdrawn by written notice only, provided such notice is received at the Purchasing Services office prior to Closing Time.
- 4.7 All costs associated with the preparation and submission of the Quotation, including any costs incurred by the Bidder after the Closing Time, will be borne solely by the Bidder.
- 4.8 By submitting a Quotation, the Bidder acknowledges and agrees that the City will not be responsible for any costs, expenses, losses, damages (including damages for loss of anticipated profit) or liabilities incurred by the Bidder as a result of or arising out of submitting a Quotation for the proposed Contract, or due to the City’s acceptance or non-acceptance of their Quotation or any breach by the City of the bid contract between the City and each of the Bidders or arising out of any contract award not made in accordance with the express or implied terms of the Quotation documents.

## PART A – INSTRUCTIONS TO BIDDERS

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### 5.0 Conflict of Interest

- 5.1 By submitting a Quotation, the Bidder warrants that neither it nor any of its officers or directors, or any employee with authority to bind the Bidder, has any financial or personal relationship or affiliation with any elected official or employee of the City or their immediate families which might in any way be seen by the City to create a conflict.

### 6.0 Evaluation of Quotations

- 6.1 Quotations will be evaluated on the basis of the overall best value to City based on quality, service, price and any other criteria set out herein including, but not limited to:
- a) the Bidder's ability to meet the Requirements, qualifications and competencies set out herein;
  - b) financial offer including but not limited to life cycle cost (transaction price, estimated residual value, operating cost including maintenance, repair and fuel costs) warranty, and any other life cycle considerations;
  - c) the Bidder's ability to meet the delivery timelines set out herein;
  - d) the Bidder's business and technical reputation and capabilities; experience and where applicable, the experience of its personnel; financial stability; track record; and references of current and former customers;
  - e) the completeness and detail of the quotation including but not limited to the organization and general appearance of the quotation, compliance with quotation instructions; and,
  - f) equipment quality, configuration, age and condition; and
  - g) any other criteria set out in the RFQ.
- 6.2 The City may, prior to Contract award, negotiate changes to the scope of the Work, the materials, the Specifications or any conditions with any one or more of the Bidders without having any duty or obligation to advise any other Bidders or to allow them to vary its prices as a result of changes to the scope of Work, the materials, the Specifications, or any conditions, and the City shall have no liability to any other Bidder as a result of such negotiations or modifications.
- 6.3 Preference may be given to Quotations offering environmentally beneficial products or services. Specifically, in accordance with the City's Green Fleet Policy 2020, vehicles with highest fuel efficiency and cost effectiveness based on considerations of life-cycle costing and financial investment requirements and

## PART A – INSTRUCTIONS TO BIDDERS

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vehicles which maximize the use of alternative fuels and technologies will be considered.

### **7.0 Acceptance and Rejection of Quotations**

7.1 Notwithstanding any other provision in the Quotation documents, the City has in its sole discretion, the unfettered right to:

- a) accept any Quotation;
- b) reject any Quotation;
- c) reject all Quotations;
- d) accept a Quotation which is not the lowest Quotation;
- e) accept a Quotation that deviates from the Requirements, Specifications or the conditions specified in this Quotation;
- f) reject a Quotation even if it is the only Quotation received by the City;
- g) accept all or any part of a Quotation; and
- h) split the Requirements between one or more Bidders.

7.2 All Quotations shall be irrevocable and remain open for a minimum of sixty (60) days after the Closing Time, whether or not another Quotation has been accepted.

7.3 The City may waive any non-compliance with the RFQ, the Requirements, the Specifications, or any conditions, including the timing of delivery of anything required by this RFQ and may elect to retain for consideration Quotations which are non-conforming, which do not contain the content or form required by the RFQ or which have not complied with the process for submission set out herein.

### **8.0 Award of Contract**

8.1 Award of a Contract is contingent on funds being approved and the contract award being made by the appropriate City authority.

8.2 The purchase order, the Quotation, the RFQ and such other documents including all amendments or addenda, shall form the basis for the Contract between the Contractor and the City. In the event of a conflict between any of the Contract Documents, the following documents will take precedence and govern over each other in the following order of priority from highest to lowest:

- a) The City's purchase order including the standard purchase order terms and conditions;

## PART A – INSTRUCTIONS TO BIDDERS

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- b) Or any mutually agreed to amendments between the Bidder and the City;
- c) The Quotation; and
- d) The RFQ and any subsequent addenda.

8.3 Where the head office of the successful Bidder is located within the City of Richmond and/or where the successful Bidder is required to perform the Service at a site located within the City of Richmond, the successful Bidder is required to have a valid City of Richmond business license prior to Contract execution.

8.4 The City is not under any obligation to award a Contract and may elect to terminate this RFQ at anytime.

### **9.0 Publication of the Results of the Request for Quotation**

9.1 The City will publish the name of the successful Bidder on the websites listed in Section 4.1. No other notices will be issued by the City. Bidders shall visit these websites to obtain the results of this Request for Quotation.

### **10.0 Quantities**

10.1 The quantities stated herein are the City's best estimates of its requirements and should not be relied on. Actual quantities may vary.

### **11.0 Alternates and/or Variations to Specifications**

11.1 Except where stated otherwise herein, the Specifications describe what is considered necessary to meet the performance requirements of the City and Bidders should bid in accordance with such Specifications, or if the Bidder cannot meet the Specifications, the Bidder may offer an alternative which it believes to be the equivalent.

11.2 If in addition to bidding on goods, materials, equipment and/or services that meet the Specifications, the Bidder wishes to offer an alternative, the alternative Quotation shall be submitted separately in the same format as the initial Quotation.

11.3 The City is not obligated to accept any alternatives.

11.4 The City will determine what constitutes allowable alternatives and/or variations.

PART A – INSTRUCTIONS TO BIDDERS

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**12.0 Freedom of Information and Protection of Privacy Act (BC)**

- 12.1 Bidders should note that the City is subject to the Freedom of Information and Protection of Privacy Act (British Columbia), which imposes significant obligations on the City's contractors to protect all personal information acquired from the City in the course of providing any service to the City.



## PART B – GENERAL CONDITIONS

## PART B – GENERAL CONDITIONS

**1.0 Definitions**

The following words and terms, unless the context otherwise requires, shall have the meanings set out below. Words including the singular number include the plural and vice versa.

“Act of God” means a cataclysmic phenomenon of nature, including earthquake, flood or cyclone. Rain, snow, wind, high water or any other natural phenomenon, which might reasonably have been anticipated from historical records of the general locality of the City, shall be deemed not to be acts of God;

“Bidder” means the individual, partnership, corporation or combination thereof, including joint ventures, who or which sign the Quotation form set out in Part D of this RFQ;

“City” means the municipal corporation, generally known as the City of Richmond.

“City’s Designated Representatives” means the City’s employees or representatives who are authorized in writing to deal with the Contractor on behalf of the City in connection with the goods, materials, equipment and services or to make decisions in connection with the Contract;

“Closing Time” means the closing date, time, and place as set out on the title page of this RFQ;

“Contract” means the agreement formed between the City and the Contractor as evidenced by the purchase order issued to the Contractor by the City;

“Contract Documents” means the purchase order, the Contractor’s Quotation, the RFQ and such other documents as listed in the purchase order, including all amendments or addenda agreed between the parties;

“Contractor” means the successful Bidder individual, partnership, corporation or combination thereof, including joint ventures, who or which is awarded the Contract;

“Delivery Date” means the date the City requires the Contractor to deliver the goods to the City’s Delivery Site;

“F.O.B.” means all costs of freight, insurance, brokerage, customs duties and all other costs of delivery to the site named as F.O.B. will be borne by the Contractor and that ownership and title to all goods, materials, and equipment are transferred to the City when same are delivered by the Contractor to the City and the risk of loss or damage to

## PART B – GENERAL CONDITIONS

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the goods, materials and equipment transfers to the City only at such time as same are received and accepted by the City at the site named as “F.O.B.”;

“Goods” means all the labour, materials, equipment, supplies, services and other items necessary for the execution, completion and fulfilment of the Requirements;

“GST” means the goods and services sales tax administered under the Excise Tax Act (Canada) and any successor tax or levy therefore in force from time-to-time;

“OHS Regulation” means the *Work Safe BC Act* (British Columbia), including without limitation, the Occupational Health & Safety Regulation (BC Regulation 296/97, as amended by BC Regulation 185/99) enacted pursuant to such Act, all as such Act or Regulations are amended or re-enacted from time to time.

“PST” means British Columbia provincial sales tax and any successor tax or levies therefore in force from time-to-time;

“Quotation” means the Bidder’s response made on the Quotation form set out on Part E of this RFQ with all appendices or addenda submitted by the Bidder in response to the RFQ;

“RFQ” means this Invitation to Quotation including, but not limited to: Part A - Instructions to Bidders; Part B - General Conditions; Part C- Requirements; Part D – Quotation Form;

“Requirements” means all of the Specifications, requirements and services set out in the RFQ that describes the general requirements that the goods, materials, equipment and services must meet and the Contractor must provide;

“Unit” means tandem axle cab and chassis c/w dump truck & front plough;

### **2.0 Independent Contractor**

2.1 The Contractor, the officers, directors, shareholders, partners, personnel, affiliates and agents of the Contractor are not, nor are they to be deemed to be, partners, appointees, employees or agents of the City.

### **3.0 Assignment**

3.1 Subject to Sections 4.2, the Contractor will not assign, sublet, subcontract, or let out as task work any part of the Work or any of the Contractor’s obligations of the Contract Documents to any third party.

## PART B – GENERAL CONDITIONS

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### **4.0 Time of the Essence**

- 4.1 For all requests made by the City pursuant to the Contract, time is of the essence. The acceptance of a late performance, with or without objections or reservations by the City, shall not waive the right to claim damages for such breach nor constitute a waiver of the requirement of timely performance of any obligation remaining to be performed.

### **5.0 Laws, Permits and Regulations**

- 5.1 The laws of British Columbia shall govern the Contract.
- 5.2 In carrying out its obligations hereunder, the Contractor shall familiarize itself and comply with all applicable laws, bylaws, regulations, ordinances, codes, specifications and requirements of all regulatory authorities, and shall obtain all necessary licenses, permits and registrations as may be required by law.

### **6.0 Inspection**

- 6.1 The Goods are subject to inspection and in case is not in conformity with the Requirements of the Contract or the Contractors' warranty (expressed or implied), the City shall have the right either to reject them or to require correction.
- 6.2 The City shall be the final judge of the Goods in respect of both quality and quantity and its decisions of all questions in dispute with regard thereto will be final.
- 6.3 The City will not be deemed to have accepted the Goods by virtue of a partial or full payment for it or prior inspection at the Contractor's facility.

### **7.0 Responsibility For Work**

- 7.1 The Contractor shall be responsible for the Goods covered by this contract until it is delivered to the designated delivery point, regardless of the point of inspection.
- 7.2 Upon delivery of the Goods, the title shall pass from Contractor to the City. Passing of title shall not constitute acceptance of the Goods by the City.
- 7.3 Upon delivery of the Goods, the Contractor's responsibility for loss or damage shall cease, except for loss or damage resulting from Contractor's negligence.

## PART B – GENERAL CONDITIONS

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### **8.0 Quality of Workmanship and Materials**

- 8.1 The Contractor shall perform services associated with the Goods with the degree of care, skill and diligence normally applied in the performance of work of a similar nature and in accordance with sound current professional practices and conforming to the requirements set out in the RFQ.
- 8.2 The Contractor shall ensure that materials, goods and equipment shall be the products of suppliers or manufacturers of established reputation engaged in the supply or manufacture of such materials of equipment.
- 8.3 The Contractor shall ensure that materials are to be applied in accordance with the manufacturer's directions and shall use the techniques and applications best suited for the type of material being used.

### **9.0 Warranty**

- 9.1 The Contractor warrants that the Goods supplied by the Contractor to the City will be in full conformity with the Specifications as well as samples, if any, then this is a sale by sample as well as by description within the meaning of the Sale of Goods Act (BC).
- 9.2 The Contractor further warrants that the Goods is of merchantable quality, and fit for the intended use and will perform according to the requirements set out in the RFQ.
- 9.3 Equipment and materials shall be new, free and clear of all liens, charges and encumbrances, the latest model, and shall be complete with all necessary accessories for operation.
- 9.4 At a minimum, a one (1) year parts and labour warranty shall be provided on all goods, materials, equipment and/or services provided under the Contract.
- 9.5 The Contractor warrants that its employees have the qualifications, experience, knowledge, skills and abilities necessary for the fulfilment of the Contract.

### **10.0 Termination**

- 10.1 The City will advise the Contractor by written notice of its intent to terminate the whole or any part of the Contract in any one of the following circumstances:

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PART B – GENERAL CONDITIONS

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- a) if the Contractor fails to make delivery of the Goods within the time specified, or fails to perform any other provisions, terms or conditions of the Contract within the time specified, or within a reasonable time if no time is specified;
  - b) in the event that the Contractor performs any act or does anything by which the City shall incur any liability whatsoever;
  - c) any failure of the Contractor to meet the safety requirements of the Contract;
  - d) in the event that any creditor of the Contractor causes a writ of execution or similar writ or court order to be served upon the City requiring the City to pay any portion due to the Contractor under the Contracts; or
  - e) in the event that the Contractor is adjudged bankrupt or if it makes a general assignment for the benefit of creditors or if it becomes insolvent or if it should take the benefit of any Act that may be in force for bankrupt or insolvent debtors.
- 10.2 Upon termination of the Contract, the City shall have no obligation to the Contractor except for such services and/or goods as have been supplied up to the date of the termination of the Contract(s).
- 10.3 Upon termination of the Contract(s) in whole or in part, the City may procure similar goods, materials, equipment and/or services and the Contractor shall be liable to the City for any excess costs for such similar goods, materials, equipment and/or services. The Contractor shall not be liable for any excess costs if failure to perform arises by reason of strikes, lockouts, Acts of God or acts of the City. The City will not be liable where Delivery Sites are not available due to strikes, lockouts or Acts of God.

### **11.0 Payments**

- 11.1 The Contractor shall be paid net 30 (thirty) days from receipt of invoice and acceptance of the goods, materials, equipment and/or services, whichever is the later.

### **12.0 Taxes**

- 12.1 Unless otherwise provided herein, the Contractor shall pay all sales or excise taxes in force during the term of the Contract, provided that any increase or decrease in such taxes shall increase or decrease the amount due under the Contract(s).

## PART B – GENERAL CONDITIONS

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12.2 Invoices shall show the appropriate amounts for GST and PST.

### **13.0 Conduct of the Contract**

13.1 The City of Richmond's Manager, Purchasing shall have the conduct of the RFQ and the Contract.

### **14.0 Rectification of Damage and Defects**

14.1 The Contractor shall rectify any loss or damage for which, in the opinion of the City the Contractor is responsible, at no charge to the City and to the satisfaction of the City. Alternatively, the City may repair the loss or damage and the Contractor shall pay to the City the costs of repairing the loss or damage forthwith upon demand from the City. Where, in the opinion of the City, it is not practical or desirable to repair the loss or damage, the City may estimate the cost of the loss or damage and deduct such estimated amount from the amount owing to the Contractor hereunder.

### **15.0 Failure to Perform**

15.1 Should the Contractor neglect to execute the Requirement properly or fail to perform any provision of the Contract, the City may, without prejudice to any other right or remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment due to the Contractor.

15.2 If the Contractor fails to perform any provision of the Contract due to reasons of strike, lockout or other work stoppages, the City may upon ten (10) days written notice to the Contractor terminate the Contract without prejudice to any other right or remedy the City may have.

### **16.0 Dispute Resolution**

16.1 All claims, disputes or issues in dispute between the City and the Contractor shall be decided by mediation or arbitration, if the parties agree, or failing agreement, in a Court of competent jurisdiction with the Province of British Columbia and be governed by the laws of British Columbia.

16.2 In the event that the parties agree to arbitration pursuant to the above, the arbitration shall be governed by the rules of the British Columbia International Commercial Arbitration Centre, except that the arbitrator or arbitrators shall be agreed upon by the parties, and failing agreement by the parties, shall be appointed by a court of competent jurisdiction with the Province of British Columbia.

**PART B – GENERAL CONDITIONS**

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- 16.3 In the event that the parties agree to arbitration, the arbitration shall take place in the Lower Mainland, British Columbia and be governed by the laws of British Columbia.
- 16.4 The procedure set out in this section is not meant to preclude or discourage informal resolution of disagreements between the City and the Contractor.

**17.0 Delivery**

- 17.1 Deliveries shall be made to 5599 Lynas Lane Fleet Garage in the City of Richmond between the hours of 7:30 AM and 4:00 PM on any normal working day.

**18.0 Changes in Requirements**

- 18.1 The City, without invalidating the Contract, may make changes to the Contract by altering, adding or deducting from the Requirements. Subject to mutual agreement, the Contractor shall proceed with the amended Requirements and the amended Requirements shall be executed under the provisions of the Contract.
- 18.2 The Contractor must not make any changes to from the terms of the Contract unless it shall first have received the written consent of the City and no claims for additional compensation shall be valid unless the change is so ordered.

PART C – REQUIREMENTS

PART C – REQUIREMENTS

DESCRIPTION	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
<p><b><u>A.GENERAL SPECIFICATIONS</u></b></p> <p>The City of Richmond requires 1 (One) Conventional Tandem axle cab and chassis, which will be used in the general duty use in the transporting construction materials and in snow ploughing and salting requirements.</p> <p>Unit shall have 66,000 lb GVWR. Chassis will require a rating sufficient for transportation of construction materials and ice and snow control.</p> <p>The unit shall incorporate features that provides for ease of operation and maximum safety for the public and operator. Evaluations of these features will be made and will contribute to the decision of the tender award.</p> <p>The bidder shall respond to every item indicating the item is included as described in the specifications or any alternatives suggested.</p> <p>The bidder shall respond to every item indicating the item is included as described in the specification. Details for the alternatives may be provided on page 28 “Schedule of Alternative and Price”</p>		
Manufacture		
Make		
Year		
Model		



PART C – REQUIREMENTS

DESCRIPTION	CITY OF RICHMOND REQUIREMENTS	BIDDERS TO DESCRIBE ITEMS QUOTED
<b>A. CHASSIS</b> <b>A1. Cab &amp; Chassis</b>	A conventional tandem axle type cab and chassis configured primarily for a dump truck, with plough/salting options, having the capability for driver and 1 (one) passenger. STATE TYPE	
<b>A2. Cab to Axle</b>	Approximately 181” (one hundred and eight-one) inches of clear cab to axle STATE cab to axle distance	
	Cab to body clearance of 6 (six) inches STATE cab to body clearance	
<b>A3. Wheelbase</b>	Wheelbase for applications is to be fitted for 1(one) dump box approximately 12 (twelve) yard capacity. STATE wheelbase	
<b>A4. Cab Dimensions</b>	Preference will be given to large interior proportioned conventional cab design. STATE DETAILS	
	STATE front bumper to rear of cab distance	
	STATE front axle to rear of cab distance	
<b>A5. Vehicle Weight</b>	Proposed vehicle shall have approximate operating weight capability as follows: approx. (66,000lbs) GVWR. STATE GVWR and GCVWR	

PART C – REQUIREMENTS

<b>A6. Base Curb Weight - Cab &amp; Chassis</b>	STATE DETAILS	
	State front	
	State rear	
	State combined	
<b>A7. Tow Hooks</b>	2 (two) front tow hooks. Each hook mounted directly to the frame rails at either side. STATE DETAILS	
<b>A8. Frame Rails</b>	A clean top of frame full CA distance, required for mounted equipment. STATE DETAILS -frame rail PSI yield strengths -a clean top of rail CA	
<b>A9. Frame Rail Height</b>	Application requires a standard height chassis frame configuration. STATE DETAILS	
	Unladen top of rail height to ground distance-laden top of rail height to ground distance STATE DETAILS	

PART C – REQUIREMENTS

<b>A10. Bumper</b>	A full width front chrome bumper complete with licence plate holder. STATE DETAILS	
	Type of bumpers STATE DETAILS	
	Type of bumper corrosion proof coating STATE DETAILS	
	Colour and paint ID number STATE DETAILS	
<b>A11. Mud Flaps</b>	Frame mounted removable mud flaps, front and rear of rear wheels and rear of front wheels. STATE type and style	
<b><u>B. SUSPENSION</u></b>		
<b>B1. Front Suspension</b>	Standard tapered variable rate leaf springs suspension complete with matched shock absorbers. Weight bearing capability of 9,100 kg (20,000 lb) (GAWR) STATE DETAILS	
	Front axle suspension capacity	
	Shock absorber make and model	
	Make and model of front axle	
<b>B2. “Setback” Axle</b>	A set back front axle allowing for ease of manoeuvrability and decreased turning radius.	

PART C – REQUIREMENTS

	Front steering axle wheel degree kick out of 42° (forty-two) or greater.	
	Steering axle capacity of approximately 9100 kg (20,000 lb). STATE DETAILS	
	Wall to wall turning radius STATE DETAILS	
	Weight capacity STATE DETAILS	
<b>B3. Wheel Rims</b>	Hub piloted, disc type wheels STATE Type and style of wheels	
	Shall be aluminum or steel STATE DETAILS AND PRICE FOR BOTH	
	Dimension of wheel STATE DETAILS	
<b>B4. Tires</b>	Tires shall be Michelin XYZ-Z 11 R 16 ply all position type tires for all rear wheels and having 425/65 R 22.5 20 ply tires on front. STATE -type and style of tires -make of tire	
<b>B4. Front Hub</b>	Oil wheel seals complete with see – through cover STATE type and style of covers	
<b>B5. Tandem Rear Axle</b>	A single speed rear axle and differential having: (46,000 lb) capacity or greater. Driver controlled traction lock differential	

PART C – REQUIREMENTS

	both axles. STATE type and style	
	State traction lock both differentials (dash operated)	
	State capacity	
<b>B6. Rear Suspension</b>	Standard tapered variable rate leaf springs suspension having a load bearing capacity for (46,000 lb) or greater. Weight scale on air bags. STATE DETAILS	
	State type and style of suspension	
	State make of suspension	
	State capacity	
<b><u>C. CAB TYPE</u></b> <b>C1. Cab</b>	A cab capable of seating the driver and 1 (one) passenger. Cab to have corrosion proofing applied and painted white. STATE cab type and style	
	State type of corrosion proofing	
	State colour code of paint and identification	
<b>C2. Interior</b>	Dark Grey interior colour and trim. Easy care, easy clean materials preferably vinyl with moulded plastic trim. Matching rubber floor mats, sun visors, arm rests, coat hooks, overhead liner and door	

PART C – REQUIREMENTS

	panels. STATE type and style	
<b>C3. Mounting</b>	Cab is required to have minimum 4 (four) -point mounting, complete with rubber or viscose mounts for sound isolation and vibration control/Air ride suspended. STATE type and style of mounts	
<b>C4. Seating</b>	Front individual high back bucket type seats. Drivers seat shall be a heavy duty air suspension type seat complete with a minimum 6 (six) way adjustment-forward/rear, up/down and adjustable lumbar support. State make and model and incorporate all adjustments, including lumbar support	
	Seat shall be constructed of good quality material complete with a wide base. Seat cover material to be heavy duty cloth type fabric. State type of fabric and colour	
	Seats must include flip up armrests and fitted with both driver and passenger seat belts in compliance with the B.C. Motor Vehicle Act and Work Safe BC Regulations. STATE DETAILS	
<b>C5. Steering</b>	Tilt and height adjustable steering wheel. Unit will incorporate power steering matched to vehicle type and weight for ease of operation and operator comfort. STATE -steering wheel adjustments	

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	-power steering type	
<b>C6. Heater/Defroster</b>	A heater/ventilation system complete with multi position blower fan. Variably adjustable heating vents for operator comfort and window “defrosting”. The defrosting system must be capable of dealing with local conditions – cool temperatures with high humidity. STATE DETAILS	
	State type of blower control	
	State system air movement and capacity in CFM	
	State heater/defroster fan type and speed control	
<b>C7. Cab Air Conditioning</b>	Units are to be equipped with factory air conditioning, complete with multi positional control and variable adjustable vents with cab filter. STATE type and style	
	State capacity	
<b>C8. Windshield Wipers</b>	2 (two) speed wiper controls complete with intermittent feature. Wiper system shall include window washer system. STATE wiper control State type of washer system	
<b>C9. Cab Egress</b>	Cab grab handles and stairs conveniently located on both sides of cab for operator and passenger safety and comfort. Steps	

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	must be slip resistant and have a boot brush on both sides. STATE DETAILS	
	State utilization of grab handles and location	
	State stair height beginning at ground level	
	State type, style and location of boot brush	
	State slip resistant type and style	
<b>C10. Mirrors</b>	2 (two) “West Coast” style mirrors rectangular heads having a minimum 6” x 14” (15cm x 35 cm) surface, complete with 6” (15 cm) diameter convex heads. Mirrors to be electric controlled breakaway type and must be heated complete with LED lighting. The passenger side mirror should be downward viewing. STATE type and style	
	State dimensions of mirrors	
	State break away and heated	



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<b>C11. Windshield</b>	Safety windshield tinted type for temperature control, units will be required to have exterior windshield visor mounted to cab. STATE windshield tint grade	
	State type and style of visor	
<b>C12. Radio</b>	Units are to be equipped with AM/FM/CD radio with Blue Tooth capabilities. Preferred mounting to be on the cab ceiling. Plumbed for CB. STATE type and style of radio	
	State model number	
	State mounting location	
<b>C13. Operators Console</b>	A safe operators console defined as requiring minimal eye movement from the roadway. Gauge cluster must consist of odometer, voltmeter, trip display, engine hour meter, speedometer must be in kilometres, tachometer, oil pressure, coolant temperature, transmission temperature, air pressure gauges, fuel level, brake application gauge, filter restrictor and fault code display(s) as necessary. Operator warning system, both visual and audible, to include low oil pressure, high coolant temperatures engine	

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	functions, low air warning (both primary and secondary) air cleaner restriction gauge mounted in instrument panel. Units shall be equipped with on board digital scale system located in the cab with clear visibility for the operator. STATE DETAILS	
	Describe console	
	Describe gauges offered	
	State type and style of warning system	
<b>C14. Cab Front End</b>	Tilt forward type hood assembly with stationary “grill” to clear extended frame rails or auxiliary front mounted equipment. Butterfly style hood on both sides is required for engine access. STATE Type of tile apparatus	
	Clearance of front mounted equipment	
	State engine access	
<b>C15. Fuel Tank</b>	A minimum of 320 (three hundred and twenty) litres capacity fuel tank complete with non-spill venting. Fuel tank mount shall be on left side and fill spout position located for quick and easy fill. STATE tank capacity	
	State tank location	

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	State operator egress step	
<b>C16. Hand Throttle</b>	Units shall be equipped with electronic hand throttle, with location to be designed for ease of access for operator. STATE type and style of hand throttle and location	
<b>C17. Horns</b>	Units are to be fitted with dual electric and air horns. STATE location of air horns	
	State type and style	
<b>C18. Operator Visibility</b>	Units shall include pedestrian window on lower right door. STATE DETAILS -describe visibility	
<b>C19. Exhaust</b>	Units are to be equipped with single vertical curved top exhaust pipe and heat shield. (Height not to exceed one foot above the cab) STATE DETAILS	
	State location of exhaust	
	State type and style	
	State heat shield	

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<b>C20.Fender Extensions</b>	The vehicles shall have front fender extensions installed on the units. STATE DETAILS	
<b>C21. Grill</b>	The vehicle shall be equipped with a stationary grill. STATE DETAILS	
<b>C22.Cab Sound Installation</b>	The vehicle shall include dash and engine cover installation. STATE DETAILS	
<b>C23. Remote Power Module</b>	The vehicle shall include a remote power module mounted under cab complete with a minimum 6 (six) outputs and 6 (six) inputs max 20 (twenty) amps. per channel, max 80 (eighty) amps. total and 1 (one) switch pack with latched switches. STATE DETAILS	
<b>C24. Windows/Doors/Entry</b>	Units shall be equipped with electric power windows, automatic door locks and automatic keyless entry. STATE DETAILS	
<b><u>D. BRAKES</u></b>		
<b>D1. Air Brakes</b>	Air brakes system shall incorporate “anti-lock brake” technology and have 2 (two) separate airline sets for brake application. Application requirements are for frequent “stop and go”.	

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	Air brake system must be fully in compliance with the B.C. Motor Vehicle Safety Act and B.C. Commercial Vehicle Act. STATE DETAILS	
<b>D2. Air Compressor</b>	Air compressor having sufficient capacity, including safety margin, to operate air brake system and manufacturer installed air operated equipment. A minimum compressor output of 16.5 (sixteen point five) CFM for standard applications. Compressor air intake and supply shall be through a clean air source (i.e. aft of the engine air cleaner system). STATE type of drive	
	State make and model and capacity	
<b>D3. Air Dryer</b>	An air dryer capable of removing accumulating brake system debris and water. A “Bendix AD-9” or equivalent dryer, complete with desiccating filter and alloy debris filter, providing minimum protection of 30” (thirty) inches dewpoint depression from ambient operating temperatures. A dryer having heating feature is required. STATE make and model	
	State capacity and heated feature	

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<p><b>D4. Low Air Warning</b></p>	<p>Both audible and visual brake warning system, low air warning devices inside the cab for operator’s visual acuity and safety. Easily read air pressure gauges within the dash cluster. STATE type of system</p>	
	<p>State styles of system</p>	
	<p>State gauge location</p>	
<p><b>D5. Automatic Drain Valves</b></p>	<p>Automatic drain valves must be located at the air supply reservoir, primary reservoir and secondary reservoirs. Bank of drain cocks in convenient location for driver. STATE type and style of drains</p>	
	<p>State locations</p>	
<p><b>D6. Anti-Lock Brake System (ABS)</b></p>	<p>The unit brake system shall incorporate anti-wheel lock technology known as “ABS”. The unit, made up of controller wheel speed sensors and modulators, shall be secured within “safe” areas within the frame and drive components and easily accessible for servicing as required. A visual and audible alarm to signal the operator of a malfunction shall be provided within the cab dash cluster area, trailer plug shall be included. STATE type and style of system</p>	

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	State make and model	
	State components included	
<b>D7. Air Lines</b>	Airlines are to be “synflex” nylon type tubing material colour coded for ease of serviceability and routed to minimal exposure to damage. Line materials meeting SAE J-1402 at articulation points and stainless steel braided tube for air compressor discharge line. STATE type and style	
<b>D8. Brakes</b>	Standard air brake system of drum and shoe S-cam type specified to axle rating and application loads. Standard applications are as follows: -6 x 4 20,000 lb front axle = q. area 378”, 16.5” x 6”. -6 x 4 46,000 lb rear axle = sq. area 440”, 16.5” x 7” -a minimal acceptable material thickness of .86” for all linings and Q plus. STATE DETAILS	
	State make and model of brake shoes and drums	
	State type and style of brake shoes and drums	
	State specification measurements of each	
<b>D9. Slack Adjusters</b>	“Haldex” automatic slack adjusters required or City of Richmond approved	

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	equal. STATE make and model of slack adjusters	
	State type and style of Slack adjusters	
<b>D10. Dust Shields</b>	Wheels to be equipped with dust shields both front and rear axle(s) STATE DETAILS	
<b>D11. Air Brake Chambers</b>	Front LS (Long Stroke) brake chambers to have minimum surface area of 24 (twenty-four) sq.in. (61cm) with rear spring chambers having minimum of 30 (thirty) sq. in. effective surface area. Rear ‘parking’ spring chambers activated from dash mounted control valve and complete with anti-compounding control. STATE make and model of brake chambers	
	State size specifications of brake chambers	
	State type and style of rear parking brake	
<b><u>E. POWERTRAIN</u></b> <b>E1. Engine / Ratings</b>	Internal combustion diesel engine with the following ratings. SAE HP –425HP @ 2100 RPM STATE SAE HP	
	PEAK TORQUE – 1400 lb-ft @ 1000 / RPM STATE RPM	
	Engine shall offer peak torque across a broad RPM range. (i.e. 1100 to 1300 RPM) STATE RPM	



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	State peak torque values at RPM range	
	Provide torque curve chart	
	Shall be B10 bio-diesel compliant	
<b>E2. Engine Fuel System</b>	Electronically governed fuel delivery system. Fuel system in addition to supplied filtration shall include, a “RACOR” or City of Richmond approved equal, fuel/water separator having a minimum 10 (ten) micro media. STATE DETAILS	
	State type of injection	
	State “RACOR” fuel/water separation	
<b>E3. Electronics Control</b>	Engine functions and other related powertrain accessories (i.e. transmission) controlled and monitored through an electrical control module(s) to optimize fuel economy, minimize regulated exhaust emissions, load sensing and related vehicle tasks. Engine shall have a normal idle RPM less than 700 (seven hundred) RPM. STATE DETAILS	
	State type of engine controls	
	Shall be compliance with EPA standards	
	State location of ECU(s)	

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	State engine idle RPM	
<b>E4. Fuel Consumption/Emissions</b>	The City of Richmond is committed to reducing “greenhouse gas” and exhaust emissions reduction. An important aspect of this program is the contribution being made by fleet vehicle and equipment operations. Engine and transmission selection therefore will take into account the following:	
	Fuel consumption rating STATE DETAILS	
	CO emissions STATE DETAILS	
	Idle CO emissions in percentage of exhaust gas flow STATE DETAILS	
	Non methane hydrocarbons plus NOX STATE DETAILS	
	NMH plus NOX STATE DETAILS	
	PM per gram brake horsepower/hour STATE DETAILS	
	CO <sup>2</sup> grams per brake horsepower/hour STATE DETAILS	
	Estimated greenhouse gas production, City driving of 15,000 km per year stated in CO <sup>2</sup> equivalent kilograms STATE DETAILS	

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<b>E5. Coolant System</b>	Coolant system, in addition to having sufficient capacity including frequent trailer towing, shall have silicone hoses (or equivalent), filter/conditioner and anti-freeze solution having minimum cold weather protection to -30° Celsius STATE DETAILS	
	State type of hoses	
	State type of filtration	
	State type of anti-freeze solution	
	State frequency of solution replacement	
<b>E6. Radiator</b>	A long life radiator having safe cooling capacity for the engine and transmission. Radiator should take into account the trailer towing and snow plow/ice control needs for this application. A radiator having a minimum surface area of 1000 sq. in. or greater is required. STATE DETAILS	
	State type and style of radiator	
	State capacity of radiator	
	State whether full coolant capability for towing operations (heat dissipation) as described in this document.	
<b>E7. Air Induction</b>	The air induction system composed at a primary and secondary element including an air restriction indicator for timely and effective maintenance.	

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	STATE DETAILS	
	State type of filtration	
	State location of filtration	
	State air restriction indicator	
<b>E8. Transmission</b>	An automatic type power shift to transmission. Transmission must be sized and suitable for towing trailers having gross weight up to 25000 kg (55,000lb) and fully capable with over heating for snowplough and ice control operations and for mounted combination cleaner unit. The GCVWR is described under A. Chassis Section 2. Vehicle is entirely used in City operations therefore, should be “geared” to 90-100 km/h. Transmission shall have a constant drive PTO provision for auxiliary hydraulic equipment. Synthetic oil. Hand shifter not push button style. STATE make and model of transmission	
	Shall have constant drive PTO	
	Shall be capable to a minimum 1500 lb. torque 390 SAE horsepower.	
<b>F. Electrical</b> <b>F1. Electrical System</b>	The charging system must have full capability to maintain battery-cranking capacity, chassis electrical equipment, mounted equipment and traffic warning lighting system. Typically, this requires a minimum 12 (twelve) volt alternator output of 135 (one hundred and thirty-five) amperes “DELCO” or equivalent, optimized	

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	of high output at a relatively low RPM of approximately 1000 (one thousand) engine RPM. STATE DETAILS	
<b>F2. Alternator</b>	A low RPM turn on 12 (twelve) volt regulating alternator having a minimum of 135(one hundred and thirty-five) amperes output capacity. Alternator must feature enhancements incorporating coated systems to mitigate failures due to corrosion and provide extended service life. STATE DETAILS	
	State make and model of alternator	
	State output rating at 1000 RPM at 12 (twelve) V	
<b>F3. Starter Motor</b>	Starter motor having being specified by the engine manufacture for the engine model and being capable of providing and maintaining the cranking power required in the Richmond area ambient temperature ranges for winters. Thermal over crank protection is required to prevent overheating due to excessive cranking durations and extended service lift. STATE make and model of starter	
<b>F4. Battery(s)</b>	Battery(s), maintenance free type, of sufficient capacity to power the starter at the lowest ambient temperature range encountered within the lower mainland. Typically, a minimum reserve capacity of 160 (One hundred and sixty) and a CCA of	

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	1950 amperes. The battery box to be located parallel with and tight to the frame thereby reducing vibrations. STATE DETAILS	
	State reserve capacity rating cold cranking amperes	
	State make and model	
	State location of battery(s)	
<b>F5. Disconnection Switch/Boost Stud</b>	Units electrical/battery system shall incorporate a means of disconnecting the electrical systems and also provide a means of easy “boost” should it be required. No key style. STATE DETAILS	
	State location of battery boost stud	
<b>F6. Fuse Box</b>	Automotive style waterproof resettable circuit breakers required. Power distribution system(s) shall utilize where possible resettable manual circuit breakers. The electrical system must incorporate SAE blade type fuses as standard equipment where resettable circuits are not. Complete and full electrical wiring schematics to be provided to the City of Richmond at the time of delivery. STATE DETAILS	
	State type and style of circuit breakers	
	State availability of electrical schematics at time of delivery	

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<p><b>F7. Wiring</b></p>	<p>All wiring shall be colour coded, continuously numbered, encased in plastic “loom” to maximize protection from corrosion complete with sealed connectors. Vehicles having a “multiplexing” type electronic electrical systems shall provide capability for independent mounted equipment electrical circuits and functions. Heavy duty wiring to the rear of the frame for installation of body builder electrical requirements. LED type stop/tail, amber, turn, marker(s), clearance, backup, mirror and accessory power. STATE DETAILS</p>	
	<p>State conventional system with LED lamps</p>	
	<p>State “multiplexing” system offered as standard</p>	
<p><b>F8. Cab Marker Lights</b></p>	<p>Night-time marker lamps. 5 (five) flush mounted cab clearance identification lamps and on exterior visor, LED type. STATE DETAILS -LED lamps</p>	
<p><b>F9. Back-up Alarm</b></p>	<p>Having 100-dBA electric warning alarm device. STATE DETAILS</p>	
	<p>State type and dBA rating</p>	

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<p><b><u>G. MISCELLANEOUS</u></b>  <b>G1. Compliance</b></p>	<p>Vehicle must be in full compliance of current B.C. Motor Vehicle Safety Act, Work Safe BC, Commercial Motor Vehicle Regulations and U.S. Federal Environmental Protection Agency current exhaust emission standards.                  STATE DETAILS</p>	
<p><b>G2. Warranty</b></p>	<p>Provide details concerning the standard applicable vehicle warranty and terms with components and parts not covered within the standard vehicle manufacturer warranty. 5 (five) year transmission warranty. STATE DETAILS</p>	
	<p>State standard applicable warranty and terms on vehicle</p>	
	<p>State standard applicable warranty for associated components and parts not covered, or separate from the vehicle coverage noted above</p>	
<p><b>G3. Manuals</b></p>	<p>The vehicle shall have the following manuals included at the time of delivery.</p>	
	<p>2 (two) sets of parts manuals per unit, CD-ROM acceptable alternate</p>	
	<p>2 (two) sets of service manuals, CD ROM acceptable alternative or secured access to manufacturers website where the above information is available at all times.</p>	



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	2 (two) sets operators manuals per unit	
	1 (one) set body, parts and repair manual per unit	
	Wherein the engine, transmission or other related components may not be included in the vehicle manuals, (Parts and Service) those additional manuals specific to the components, shall be included at the time of delivery. STATE -if in compliance with all of the above requirements including components	
<b>G4. Scheduled Maintenance</b>	The following shall be provided by the Supplier at time of delivery-	
	A complete check-off style preventative maintenance schedule checklist as recommended by the manufacturer to ensure full and satisfactory service life.	
	A list of general maintenance parts recommended, by part number, for on-hand parts stocking.	
<b>G5. Demonstration</b>	A demo unit will be required during the evaluation process carried out by the City of Richmond staff. STATE -demo unit availability	

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<b>G6. Training</b>	Provide training to the City of Richmond Equipment Service Shop technicians in the factory prescribed maintenance, diagnostics and repairs procedures. Operator training for drivers, training to be carried out by factory representative or, factory trained personnel. STATE DETAILS	
	State your training capability as described above	
	State training locations	
	State available training aids	
	State availability of training sessions	
	State training on essential major operating components not made by the vehicle manufacturer but utilized.	
<b>G7. Keys</b>	4 (four) full sets of keys provided at vehicle delivery c/w remotes for keyless entry. STATE DETAILS	
<b>G8. Delivery</b>	State the number of days from the date of receipt of order from the City of Richmond, to the date of vehicle delivery F.O.B. City of Richmond’s Public Works Operations Yard or site designated. The City would expect 180 (one hundred and eighty) days after awarding the contract.	

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<p><b>G9. Parts</b></p>	<p>The City of Richmond requires parts delivery by air, within 24 (twenty-four) hours within Canada and 48 (forty-eight) hours outside Canada. All costs associated to “air” delivery are the responsibility of the supplier during warranty period. STATE parts delivery by air</p>	
<p><b><u>H. OPTIONS</u></b></p>	<p>List air suspension options.</p>	
<p><b>H1. Air Suspension</b></p>		
<p><b>H2. Alternative Suspension to Leaf Type Springs</b></p>	<p>List alternative recommended suspension system for front and rear axles.</p>	
<p><b>H3. Extended Front Frame</b></p>	<p>Given occasional need for extended front frame rails please state if available and if other modifications or additional equipment is required.</p>	
<p><b>H4. Air Trailer Tow Package</b></p>	<p>Provide costs associated to outfit unit with pintle hitch, plumb glad-hands electrical connection, including “ABS” and safety hardware that meets all compliance. STATE DETAILS</p>	
<p><b>H5. Tow Apron</b></p>	<p>Tow apron must be approx 18” (eighteen) inches from rear floor skirt. Glad hands must be solid mounted and located in a position that allows easy access when in use and in a position that protects them from damage when dumping load.</p>	

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<b>H6. AC Adapter/Power Outlet</b>	Provide costs for AC adapter power outlet to charge up cell phone. STATE DETAILS	
<b>H7. Power Windows</b>		
<b>H8. Power Mirrors</b>		
<b>H9. Heated Mirrors</b>		
<b>H10. Power Door locks</b>		
<b>H11. On- board Scales</b>		
<b>H12. Four Rear back up lights which operate in reverse and or override in neutral.</b>		
<b>H13. Outer front Cab sun visor</b>		
<b>H14. Rear camera</b>		
<b>H15. Engine Brake</b>		
<b>H16. Exhaust Brake</b>		
<b>H17. Aluminium Box</b>		
<b>H18. Steel Box</b>		
<b>H19. Air tarp</b>		

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<b>H20. Aluminum tool boxes</b>		
<b>H21. On board digital scale system located in the cab with clear visibility for the operator</b>		
<b>H22. Transmission retarder</b>		
<b>H23. Extended Warranty</b>		
<p><b><u>A -GENERAL SPECIFICATIONS - Dump Box</u></b></p> <p>The City of Richmond requires One (1) dump box suitable for tandem axle cab and chassis having a approximately 66,000 lb GVWR (make and model to be advised) carrying gravel, aggregate, asphalt, salt insert and miscellaneous other construction materials. Application is primarily for Public Works maintenance and projects. Vendor to supply detailed drawings or photos of dump box mounted on chassis.</p>		
<b>A1. Dump Box suitable for conventional tandem axle cab and chassis</b>	Dump box dimensions STATE	
	Manufacture	
	Make	
	Model	
	Height	
	Length	
	Width	

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<b>A2. Dump Box Construction</b>	Dump box is to be a minimum T-1 (AR400) construction, advise materials used in the box shell, deck, sub-floor, cross members, long sills, sides and cab shield. STATE DETAILS	
	List materials	
	Type of materials	
	Style of construction	
	Aluminium box construction	
<b>A3. Tailgate</b>	An air operated high lift gate with 2 (two) rear asphalt chutes, one on each side. Tailgate latch is to be air operated. STATE DETAILS	
	Type and style of gate	
	Type of construction materials	
	Rear asphalt gates	
	Air operated	
<b>A4. Body Prop</b>	Inboard body prop required to be located approximately mid-way chassis to allow body to be secured at a higher dump angle. STATE DETAILS	

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<b><u>B. HYDRAULICS</u></b>	Hoist hydraulic system to have sufficient volume to take box (either empty or full) full up or down in minimum time of 24 (twenty-four) seconds. STATE DETAILS	
<b>B1. Hoist</b>		
	State type and style of hoist cylinder	
	Make and model of hoist cylinder	
	Full up and down travel time	
<b>B2. Pump</b>	Hydraulic pump is to be driven off an automatic transmission (make and model to be advised) PTO. Installation to include pump mounting supports and line groups fully functional. STATE DETAILS	
	State type and style of pump	
	State make and model of pump	
	State location of pump and lines	
<b>B3. Hydraulic Line Groups</b>	All hydraulic lines to be colour coordinated are to be suitably routed with protective coverings, supported or hung to frame structure to eliminate “chaffing” or potential of “jill pokes” causing tears or	

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	ripped lines. STATE DETAILS	
	Type and style of hydraulic lines	
	Location of lines	
	Type of protective coverings	
<b>B4. Valves</b>	<p>Minimum of seven (7) valve control banks required for the following functions:</p> <ul style="list-style-type: none"> <li>a. snowplough lift</li> <li>b. snowplough angle</li> <li>c. salt insert spreader</li> <li>d. hoist system</li> <li>e. tailgate functions</li> <li>f. future requirements</li> </ul>	
	State number of control valves	
	State make and model	
	State full set of hydraulic schematics	
<b>B5. Accessory Hose</b>	<p>Routed to the rear, easily accessible, protected and complete with quick couplers. Routed to the front, easily accessible complete with quick couplers for plough operation. All hose routing, both to front and rear of vehicle, to have abrasive resistant outer coverings bundled and strapped to the vehicle frame and support brackets every 24” (twenty-four) using standoff brackets and “P” clips. STATE DETAILS</p>	



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	State type and style of quick couplers	
	State routing location	
	State schematic of routing	
	State type of abrasive coverings	
	State location of support brackets	
<b>B6. Hydraulic Tank</b>	The unit shall have a hydraulic tank capable of incorporating the entire hydraulic system.	
	State type and style of tank	
	State location of tank	
	State capacity of tank	
	State sight glass	

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<p><b><u>C. ELECTRICAL</u></b>  <b>C1. Wiring</b></p>	<p>High quality corrosion resistant wiring to be included throughout. All lights, stop, brake, marker and directional are to be LED rubber mounted and recessed into frame. The plug in for the salt insert is up and easy to get at. STATE DETAILS</p>	
	<p>Type of corrosion resistant wiring</p>	
	<p>Type and style of lights</p>	
	<p>Frame mounting and recessed (if LED)</p>	
<p><b><u>C.2 Amber Flasher/Beacons</u></b></p>	<p>Amber flasher/beacons are to be installed in both right and left corners front of box on the cab protector to be GROTE #77163 or equivalent LED complete with beacon guards. To be positioned to be seen clearly when approaching rear of unit and unobstructed from tarp. STATE DETAILS</p>	
	<p>State number of beacons</p>	
	<p>State location of beacons</p>	
	<p>State style of beacon guards</p>	
<p><b>C3. Electrical Connections</b></p>	<p>All connections, boxes and wiring routing are to be weather proof and routed to the</p>	

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	frame in a protective loom supported every 12” (twelve) inches using stand-off brackets and “P” clips. STATE DETAILS	
	Weather proofing system	
	Routing location	
	Complete electrical schematic	
<b>C4. Front Plough Lights</b>	Front plough is to be equipped with two headlights with marker and directional signals to be located on each side of the plough mount bracket. Lights to be located on plough mount on removable light bar frame. STATE DETAILS	
	Number of lights	
	Type and style of lights	
	Location of lights	
<b>C5. Central Sensor Plug</b>	Unit shall have a central sensor plug located in right rear post. STATE DETAILS and number of pins	
	Location of plug	
<b>C6. Emergency Lighting</b>	Unit shall be equipped with emergency lighting as required by the motor Vehicle Act and WCB regulations and that all compliances are met. STATE DETAILS	

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<b>C7. Centre Brake Light</b>	Unit shall be equipped with a LED centre brake light on spinner cover	
<b><u>D. MISCELLANEOUS</u></b> <b>D1. Drivers Step</b>	Drivers toe rail, steps, ladders and grab handles on both left and right sides of box. Inside box step 2 (two) shovel holders are to be installed one on each side of the box at the front, location to be determined by the City of Richmond. STATE DETAILS	
	State type and style of toe rails	
	State type and style of steps	
	State type and style of ladders	
	State number of steps	
	State location of grab handles	
	State number of grab handles	
<b>D2. Manuals</b>	Provide 2 (two) service, parts and operators manuals. STATE DETAILS	
<b>D3. Warranty</b>	Provide details concerning the applicable warranty overall and, if different, for components. STATE DETAILS	
<b>D4. Toolbox</b>	2 (two) under body frame mounted vented toolbox constructed of 1/8 "aluminium checker plate with front opening, key lock at latch, vented and weatherproof. Minimum dimensions of 18" x 18" x 24".	

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	STATE DETAILS	
	State size and type of box	
	State type of locking device	
	State style of box	
<b>D5. Delivery</b>	State the number of days from the date of order to the date of delivery FOB the City of Richmond Public Works Operations Yard. The City would expect 180 (one hundred and eighty) days after awarding the contract. STATE DETAILS	
	State date of delivery	
	Unit shall have all schematics, part numbers, service schedules and manuals upon delivery of unit.	
<b>D6. Training</b>	The City of Richmond requires snow/ice control training by the supplier for their drivers and operators to be coordinated with the Fleet Training Officer. All costs associated are to be the responsibility of the supplier. STATE DETAILS	
<b><u>E. OPTIONS</u></b> <b>E1. Tarp System</b>	Air tarp system is required for the unit that provides complete operation from inside the cab. Ease of safe operation and material confinement must be the primary focus. Roll Right is preferred. STATE DETAILS	
	Type and style of tarp system	

PART C – REQUIREMENTS

	Make and model	
	Operation of tarp system	
<b>E2. Insert</b>	The City of Richmond requires a Stainless Steel slip-in sander 15’ long – 10.5 yard water level capacity complete with 3/8” conveyor bars rear tie bar system, top screens vee style sander valve front springs and fill kit. Rear bumper welded on to insert. STATE DETAILS	
	State make and model of insert	
	State length of insert	
	State capacity of insert	
	State leg stands	
<b>E3. Front Plough</b>	The City of Richmond requires an 11ft. reversible plough complete with 39” (thirty-nine) inches straight blade high curl poly mouldboard, dual power angling cylinders and crank down wheels (custom casters and rubber wheels). STATE DETAILS	
	Make and model of plough	
	Size of plough	
	Size of blade	

PART C – REQUIREMENTS

	Blade rubber and costs	
<b>E4. Front Frame</b>	The front plough mount must have heavy duty thrust arms and double acting lift cylinder. STATE DETAILS	
	Type and style of mount	
	Type of lift cylinder	
	Type of thrust arms	
<b>E5. Central Hydraulics</b>	The central hydraulics for the unit requires the following: Transmission driven hydraulic pump (will advise transmission)	
	All functions will be located on an operations tower, located between the driver and passenger seats for easy access and serviceability.	
	Controls to be air operated- to include valves for plough pump and reversible front plough, high mount tank, rear hard lines, Vickers sander control valve and Counter Point computer sander control system, adjustable flow restrictors as required. Note a specific brand name is identified because the City would like to maintain consistency with our existing systems for inserts on the tandems, for ease of training and parts availability.	

PART C – REQUIREMENTS

	Alternatives can be proposed as requested in this RFQ document.	
	Type and style of hydraulic pump	
	Make and model of hydraulic pump	
	Location of operations tower	
	Type and style of operations tower	
	Type and style of control valves	
	Location of control valves	
	Type and style of sander control system	
	Location of sander control system	
<b>E6. GPS</b>	STATE DETAILS	
<b>E7. Recommended Options</b>	STATE DETAILS	



PART D – QUOTATION FORM

PART D – QUOTATION FORM

**Quotation Form**

Purchasing Section  
 City of Richmond  
 6911 No. 3 Road  
 Richmond, BC V6Y 2C1

The undersigned Bidder, having carefully read and examined the Instructions to Bidders, General Conditions, Requirements, Quotation Form, and having full knowledge of the work required, does hereby offer to provide all necessary materials in strict accordance with the Requirements and to do all therein called for on the terms and conditions and under the provisions therein set forth at the:

**Note: detailed breakdown sheet of option pricing should be completed)**

DESCRIPTION	UNIT COST	EXTENSION
Tandem Axle Cab and Chassis c/w Dump Box & Front Plough Truck	\$ _____ (1 unit)	\$ _____
Provincial Services Tax (PST)		\$ _____
Goods and Services Tax (GST)		\$ _____
<b>TOTAL</b>		\$ _____
Trade in (Optional)		\$ _____

The above price includes and covers duties, handling and transportation charges, and all other charges incidental to and forming part of this Quotation except for P.S.T. and G.S.T.

The above price also includes all materials, installation including labour costs, to complete dump box. Dump box to include all necessary hydraulics, and be fully operational and approved by the City of Richmond’s staff.

PART D – QUOTATION FORM

The undersigned Bidder agrees to complete the whole of the works within \_\_\_\_\_ working days of acceptance.

The City at its sole discretion reserves the right to trade in or not to trade in this vehicle.

**Trade-In (Optional)**

One (1) Freightliner Dump Truck.

1996 Freightliner Dump Truck complete with snowplough and salt insert.

Serial # 1FVXJJBB3TL617125

Unit # 0876

**Inspection available at:**

Richmond Public Works Operations Yard

5599 Lynas Lane

Richmond, BC V7C 5B2DUMP BOX

Contact Chris McKenzie-Cook at (604) 244-1255 to view trade-in.

**PAYMENT TERMS \_\_\_\_\_ EARLY PAYMENT TERMS \_\_\_\_\_**

**TERMS:**

PAYMENT TERMS \_\_\_\_\_% discount if invoice paid within \_\_\_\_\_ days  
(otherwise Net 30 days from acceptance of the equipment)

**ADDENDA:**

The City may issue and Addendum. It is requested that receipt of any Addenda be acknowledged as follows:

I/We acknowledge receipt of the following applicable Addenda to the Request for Quotation:

<b>ADDENDUM</b>	<b>DATE OF ADDENDUM</b>	<b>FROM PAGES</b>	<b>TO PAGES</b>
Addendum # 1			
Addendum # 2			
Addendum # 3			

PART D – QUOTATION FORM

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Name of Bidder: \_\_\_\_\_

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

Telephone No: \_\_\_\_\_

Name, Signature, and  
Title of Signing Officer: \_\_\_\_\_  
\_\_\_\_\_

Date: \_\_\_\_\_

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

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

\_\_\_\_\_  
Initials of Signing Officer

PART D – QUOTATION FORM

**Schedule of Options and Prices**

*Pricing for all available options. All options identified in Part C – Requirements shall be stated in this section. Attach additional page(s) if required.*

(Please state additional options and costs not included in base price)

DESCRIPTION	COST
<b><u>TANDEM CAB AND CHASSIS</u></b>	
H1. Air Suspension	
H2. Alternative Suspension to Leaf Type Springs	
H3. Extended Front Frame	
H4. Air Trailer Tow Package	
H5. Tow Apron	
H6. AC Adapter/Power Outlet	
H7. Power Windows	
H8. Power Mirrors	
H9. Heated Mirrors	
H10. Power Door Locks	
H11. On-board Scales	
H12. Four rear back up lights which operate in reverse and or override in neutral	
H13. Outer Front Cab Sun Visor	
H14. Rear Camera	
H15. Engine Brake	
H16. Exhaust Brake	

PART D – QUOTATION FORM

H17. Aluminum Box	
H18. Steel Box	
H19. Air Tarp	
H20. Aluminum Tool	
H21. On board digital scale system located in the cab with clear visibility for the operator	
H22. Transmission Retarder	
H23. Extended Warranty	
<b><u>DUMP BOX</u></b>	
E1. Tarp System	
E2. Insert	
E3. Front Plough	
E4. Front Frame	
E5. Central Hydraulics	
E6. GPS	
E7. Recommended Options (list below)	
<b>TOTAL</b>	

PART D – QUOTATION FORM

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