



## **REQUEST FOR QUOTATIONS**

**Title:** Supply & Delivery of Three (3) Tractors/Tool Carriers with Sweeper, Sander, Snow Plough, Water Tank, and Water Flusher Attachments

**Reference No.:** 1220-040-2017-089

**FOR THE SUPPLY OF 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](mailto: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 July 14, 2017. 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](mailto:purchasing@surrey.ca)  
Reference: 1220-040-2017-089

### **5. ADDENDA**

If the City determines that an amendment is required to this RFQ, the City Representative will issue a written addendum by posting it on the BC Bid Website at [www.bcbid.gov.bc.ca](http://www.bcbid.gov.bc.ca) (the "BC Bid Website") and the City Website at [www.surrey.ca](http://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 venturer should be included, and each partner or joint venturer should sign personally (or, if one or more person(s) have signing authority for the partnership or joint venture, the partnership or joint venture should provide evidence to the satisfaction of the City that the person(s) signing have signing authority for the partnership or joint venture). If a partner or joint venturer is a corporation then such corporation should sign as indicated in subsection (a) above; or
- (c) If the Contractor is an individual, including a sole proprietorship, the name of the individual should be included.

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

**Reference RFQ Title:** Supply and Delivery of Three (3) Tractors/Tool Carriers with Sweeper, Sander, Snow Plough, Water Tank, and Water Flusher Attachments

RFQ No.: 1220-040-2017-089

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

## **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.



Please send your hard copy invoices by mail to:

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

## 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 do not deliver the Goods by the delivery date specified in this Agreement, or otherwise fail 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 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](mailto: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:  
Attention:
  
- (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 Three (3) Tractors/Tool Carriers with Sweeper, Sander, Snow Plough, Water Tank, and Water Flusher Attachments

**PROJECT No.:** 1220-040-2017-089

### 1. GENERAL DESCRIPTION

It is the intent of this specification to provide for the purchase of 2017 model vehicle comprising of articulating tractor/tool carrier with attachments including, sweeper, snow plough, sander, water tank, and flusher.

### 2. 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 tractors/tool carriers with attachments
- 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.

### 3. 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 vehicles other than that specified are 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.

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

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

#### **5. DELIVERY REQUIREMENTS**

The Contractor will deliver the vehicles 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 vehicles 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 vehicles is to be delivered F.O.B. Destination, Freight Prepaid, to City of Surrey, Fleet/Service Centre, Central Operations Works Yard, 6651 – 148<sup>th</sup> 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 vehicles delivered to an unauthorized location.

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

#### **6. 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 vehicles;
- One (1) **Parts Manual** covering the entire vehicles;
- 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.

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

Title of the vehicles 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

### **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.

### **1. FOUR WHEEL DRIVE, ARTICULATING, OSCILLATING MULTI-PURPOSE TRACTOR/TOOL CARRIER AND ATTACHMENTS**

<b>Preferred Specifications</b>	
<b>1. DIMENSIONS</b>	
1.1	Overall length including rear bumper 126" (3200 mm)
1.2	Height to top of cab 78" (1981 mm)
1.3	Track width (winter tires) 47" (1194 mm)
1.4	Overall width with fenders 47" (1194 mm)
1.5	Inside Turning Radius 67" (1702 mm) maximum
1.6	Articulation angle of 39 degrees each way
1.7	Oscillation angle of 7 degrees above and below horizontal.
1.8	Ground clearance of 8.75" (222 mm)
<b>2. ENGINE</b>	
2.1	Four (4) cylinder, diesel, water cooled, engine, minimum 45 HP, minimum torque of 105 lb. ft. @1800 RPM. Shall meet latest engine emission standards, please state
2.2	Cold starting aid: block heater and hydraulic oil tank heater
2.3	Quick change air filter with pre-cleaner mounted outside of engine compartment. Include service indicator (vacuum gauge)
2.4	Buzzer, warning symbol system activated for; low oil pressure or high water temperature. Display to be shown in diagnostic display monitor
2.5	Rear engine hood, side panels and grille shall be removable without tools. Once removed, complete engine access shall be available.
2.6	Rubber grommets are to be used on both panels and hood to dampen vibration. There shall be access to the engine oil dipstick without removal of any panel.
2.7	Throttle to be controlled by hand lever & foot pedal.
<b>3. COOLING</b>	
3.1	Radiator fan to be protected by steel housing. Shall be able to reach complete radiator area for cleaning.
3.2	Shall allow full access to entire cooling surface for cleaning (i.e. bottom area shall allow for full access).
3.3	Combined cooler – hydraulic oil and engine coolant. Wide fin, no-barb design to allow maximum air flow and prevent clogging
3.4	Cooling fan shall be pusher-style

<b>Preferred Specifications</b>	
<b>4. FRAME</b>	
4.1	Frame rails shall be of sufficient strength to withstand the rigors of heavy transport while traveling, complete with all front mounted attachments and rear sander combination.
4.2	Shall have on-demand ride control operated via a switch. This will allow front 3 point linkage arms to float on a hydraulic accumulator circuit improving travel comfort and safety.
4.3	The machine shall be supplied with central greasing system of minimum 0.4gal (1.5L) capacity with display function.
<b>5. IMPLEMENT DRIVE</b>	
5.1	Shall be hydraulic drive operated by one of two hydraulic circuits or both.
5.2	First circuit to have minimum of 14 gpm (53 liters/min), the second 9.5 gpm (36 litres/min).
5.3	Provision to use both circuits simultaneously shall be available.
5.4	Primary circuit (14 gpm/53 liters/min) to be double-acting (reversible).
<b>6. FRONT HITCH</b>	
6.1	Front lift system shall consist of a 3 point hitch in compliance with category 1 hitch standards (3/4" top link pin diameter and 7/8" lift arm pin diameter).
6.2	There shall be two (2) forward extending hitch arms with two (2) category 1 lift hooks.
6.3	Lift hooks shall be self-locking and to be un-latchable from the top without tools.
6.4	Lift hooks to be slide mounted such that each hook can be slid 6 inches horizontally on hitch arms to adapt to various attachments pin positions.
6.5	Top link block shall provide four (4) pin off holes for top link angle adjustments
6.6	Hitch lift height at attachment forward extension point (i.e. blower and plough cutting edge shall lift to a minimum of 30" (762 mm) clear lift)
6.7	Hydraulic lift control to provide feather-ability through a pilot controlled lift circuit
6.8	Front hitch to have switchable ride control using an in line accumulator
6.9	Hitch to have latched switch controlled float control
6.10	Front hitch arms to be pinned to front frame (not cab base)
<b>7. TRANSMISSION</b>	
7.1	Ground speed to be controlled in four (4) interconnected ways: foot engine throttle, hand throttle, inching dial and foot inching pedal.
7.2	A hand-operated inching valve used with the hand throttle, is to be supplied allowing adjustable ground speed to be set for attachment operation.
7.3	Transmission may be shifted to forward, neutral, and reverse (F/N/R) from joystick by activating a switch without removing ones hand from the joystick.
7.4	As a safety precaution, the joystick F/N/R function is to be disabled until the parking brake is released.
7.5	Mechanical transmission to be a 1-speed reduction gear and driven by 2-speed hydraulic motor and provide a speed range of: 0 –11 mph (18 km/h) in low and 0-22 mph (36 km/h) in high.
7.6	Shall be equipped with a load-sensing drive system which doesn't allow diesel engine to become overloaded
7.7	Rear axle shall be connected to front axle to provide full drive line power and torque to be available in all working conditions.
7.8	Drive line shall be located above the center articulation points in the center section. Below mounted drive line not acceptable.
7.9	Drive flow hydraulic lines not to cross center section.

<b>Preferred Specifications</b>	
<b>8. AXLES</b>	
8.1	Axles shall be full floating planetary, with limited slip differentials front and rear and automatic lock on front axle.
8.2	Rated capacity of each axle shall be approx. 5,100 lbs. (2,320 kgs.)
<b>9. BREAKING SYSTEM</b>	
9.1	Shall have a minimum of three (3) braking systems (hydrostatic, service and emergency/parking).
9.2	Hydrostatic braking through driveline brakes when backing off foot pedal.
9.3	Service brakes to be hydraulic actuated drum acting on all four wheels.
9.4	Out board brakes not acceptable.
9.5	Emergency/parking brake shall act on all four wheels.
<b>10. HUBS, WHEELS AND TIRES</b>	
10.1	Industrial 6 bolt pattern with M18 studs.
10.2	Supply and install five (5) deep lug radial winter tires to be 6 ply (LT235/75R15), mounted on heavy duty steel wheels.
10.3	Industrial wheel rim and center flange with hub pilot centre featuring valve stem protectors.
10.4	Valve stems to be protected with weld on stem protection ear.
<b>11. HYDRAULIC SYSTEM</b>	
11.1	Pump shall have built in priority flow divider to supply power steering
11.2	Front of machine shall be equipped with two (2) pairs of function (auxiliary couplers), one (1) 14gpm (53 litres/min), one (1) 9.5gpm (36 litres/min) coupler and a case drain coupler.
11.3	Rear of machine shall be equipped with one (1) pair 14gpm (53 litres/min) motor spool couplers with case drain and one (1) pair of auxiliary couplers.
11.4	Hydraulic pressurized oil fill top up system through tank filter. No reservoir free pour access port to be provided.
11.5	External hydraulic tank oil level indicator glass
11.6	All cylinders feature self-aligning spherical bearing body and rod ends (long life feature)
11.7	All hydraulic pumps to be driven on the fly wheel end of engine only.
<b>12. ELECTRICAL</b>	
12.1	Twelve (12) Volt DC, negative ground with a 650cca, group 31 battery, 65 amp alternator & voltmeter, battery disconnection switch protection.
12.2	An emergency stop button to be included, mounted on dash panel
12.3	Fuses to be mounted behind dash console. Fuse/relay diagram decal to be placed on inside cover.
12.4	Switches and dials for lights, heater, A/C, parking brake, heated mirrors to be mounted on dash in group formation
12.5	Supply and install low hydraulic oil level light and buzzer
12.6	Illuminated display monitor showing the following: <ul style="list-style-type: none"> <li>I. Warning for low hydraulic oil level</li> <li>II. Tachometer / hour meter</li> <li>III. Coolant temperature</li> <li>IV. Engine oil pressure w/ signal light</li> <li>V. Hydraulic oil temperature</li> <li>VI. Voltmeter</li> <li>VII. Fuel level</li> </ul>

<b>Preferred Specifications</b>	
<b>13. LIGHTING</b>	
13.1	There shall be two (2) headlights, four (4) forward and two (2) rearward facing work lights, all to be mounted at top of cab. Two (2) backup lights shall operate with reverse switch and on-demand via dash rocker switch.
13.2	There shall be two (2) rear rubber-mounted combination tail/signal lights
13.3	There shall be four (4) way "hazard" flashers and self-cancelling turn signals
13.4	A rubber based warning beacon with breakaway mount shall be provided
<b>14. CAB</b>	
14.1	The cab shall be "ROPS Certified" to ISO-3471 specifications and bear a certification label
14.2	Cab shall be rubber isolation mounted (cab shall not be ride mounted or integrated to front frame)
14.3	Cab to feature one left side opening forward swinging door with left side sliding winnow
14.4	Door hinges to have individual grease nipples and replacement brass hinge carry washers
14.5	Noise level to be 73-74 DBA inside at max engine rev,
14.6	Cab glass to be mounted to bolted (not glued) aluminum sub frames for quick exchange
14.7	Mirror to be mounted in cab frame (not door) using adjustable friction mounts to hold mirror position but allow swing away protection
14.8	Mirrors to be heated
14.9	Cab heat vents shall be placed in 4 positions within the cab interior
14.10	At the entire front windshield base area from left to right in the form of a manifold with 10 or more vent openings
14.11	Side window defrosting in the cab "B" pillars left and right with adjustable vents
14.12	Floor heating vents that have adjustable air flow direction and rate
14.13	Air fan shall be 3 speed or variable flow
14.14	Top headliner located defrost vents not acceptable.
14.15	A separate air recirculation control shall all from 0-100% of air to recirculate or provide full pressurization
14.16	Air intake shall be filtered with a replaceable paper element
14.17	Separate recirculation air filters (replaceable) shall be included separately from intake filter system
14.18	Right side window to have a full opening swing out feature for training and operator emergency egress
14.19	Cab wipers to be pantograph front, featuring grease and rear with separate controls and washer systems.
14.20	Front pantograph wiper arms to have long life wiper blade bushings with refillable grease caps.
14.21	Beacon lights to be DIN post mounted with swing down features
14.22	Red stop button dash mounted for driver emergency shut down
14.23	Cab to contain:

**Preferred Specifications**

- I. Horn
- II. 3 Speed heater defroster
- III. 2 Speed pantograph wiper with intermittent control
- IV. Windshield washer
- V. Floor mats
- VI. Inside rear view mirror
- VII. Exterior heated mirrors
- VIII. Dome lights with blue and/or white lighting
- IX. 2 Point seat belt
- X. Sound absorption lining
- XI. AM/FM/CD Radio, mounted overhead
- XII. Tilt steering in column
- XIII. Removable door and side panel
- XIV. Flat step for safe entry
- XV. Heated, air-ride operator seat
- XVI. Overhead roof window
- XVII. Air-conditioner with cab pressurizer below roof line and extra heat to be controlled on the dash panel
- XVIII. Supply and install guard for headlight protection
- XIX. Rear mounted windshield wiper/washer
- XX. Sun visor
- XXI. Flat floor with no drive line hump

**15. SEAT**

- 15.1 Heated, air auto adjusting seat for drivers weight
- 15.2 Air lumbar and bolster adjustments
- 15.3 Right side adjustable arm rest integrated for wrist position support for right side mounted joy stick

**16. JOY STICK**

- 16.1 True pilot controlled joy stick control (electronic joy stick not acceptable)
- 16.2 Joy stick is seat mounted such that the operator and joystick move together on the same suspension
- 16.3 4 line hydraulic pilot control system from base of joy stick piped to joy stick pilot valve below the cab floor then controls main high pressure valve mounted to machine frame (cab mounting not acceptable)
- 16.4 Pilot control valve to function at low pressure then activating main valve at full working pressure and flows
- 16.5 Joy stick to have four (4) way adjustment stick up, down, forward and backward adjustment

**17. STEERING**

- 17.1 Two (2) double acting steering cylinders operate the articulated steering system
- 17.2 Priority flow at low system pressures to provide safe independent oil pressure to steering cylinders
- 17.3 Steering cylinders to feature rod and body pivot ends to be replaceable, spherical, self-aligning bearing ends with captive pin ends
- 17.4 Steering pins to be tempered with upper and lower wedge pin mounts that prevents

<b>Preferred Specifications</b>	
	frame housing wear
17.5	Individual grease lines to be mounted to all four ends of cylinder bearing
17.6	Articulation steering bump stops to be designed <b>not</b> to allow steering cylinders to bottom out at steering angle limits (cylinder protection feature)
<b>18. WATER PUMP</b>	
18.1	All hoses, wiring, switch and quick coupler shall be installed for future optional water/chemical pump.
<b>19. FUEL TANK</b>	
19.1	Single fuel tank with lockable fuel cap to be supplied.
19.2	Shall have 13.0 gal. (50L) minimum capacity.
<b>20. SPREADER ATTACHMENT</b>	
20.1	Spreader to be constructed of galvanized steel
20.2	Spreader to be hook-mounted to rear of carrier requiring no tools for installation or dismantling. Shall be self-loading.
20.3	Shall be hydraulically driven with engagement from within cab.
20.4	Engagement and disengagement shall be independent from front mounted attachments.
20.5	Minimum 1/3 cu.yd. capacity.
20.6	Spread shall be by means of a roller with cams which disperses small spots of material in a grid pattern.
20.7	Spread distance per hopper load shall be 5-8 kms (3-5 miles).
20.8	Two (2) storage legs/stands to be provided, pin-mounted on the spreader to aid in removal and to keep the spreader upright when stored.
20.9	Shall have a total width of 44 inches and a spread width of approximately 41 inches.
20.10	Shall have colour coded, 3/4' female hydraulic quick couplers.
20.11	Ground clearance to be not less than 12 inches.
20.12	Hopper to have a plastic cover.
20.13	Agitator to have 11 bolts, 12mm (1/2") x 13cm (5"), rotating on a 4cm (1.5") square shaft.
20.14	Delivery roller to be minimum 11.5 cm (4.5") in diameter with 4mm full-length cams
20.15	Hydraulic drive motor to be located in upper left hand corner of hopper (when raised) so as to be protected when loading.
20.16	An adjustable hydraulic flow valve shall be supplied on spreader frame. This will allow for fine adjustment of spreading rate.
20.17	The agitator and roller chain shall be on left hand side of spreader and enclosed with a steel cover.
20.18	Grease fittings shall be easily accessible from both sides of spreader body.
20.19	Bolt on protective screen shall be installed. Hole size shall be maximum 2"x1.5".
20.20	Minimum required dimensions to be 44" wide x 31" high x 21" deep.
<b>21. SWEEPER ATTACHMENT</b>	
21.1	Three (3) point hitch, cat.1 mount
21.2	Maximum working width of 140cm (55")

<b>Preferred Specifications</b>	
21.3	Shall have the ability to hydraulically angle left and right a minimum of 27 degrees in each direction.
21.4	Shall have the ability to hydraulically side shift a minimum to the left 21.5cm (8.5") and to the right 26.5cm (10.5"). This will allow material removal along an object (wall, fence, etc....) while keeping carrier away from the object.
21.5	Brush shall be able to remain straight or angled left/right when side shifted. Operation of angling, side shifting and lifting to be done via joystick control.
21.6	The brush drive shall be hydraulic, from a source of maximum 50L/min (13.2 gpm) at 190 bar (2750 psi)
21.7	The hydraulic motor shall be center mounted to avoid contact with any objects
21.8	Replacing the bristles shall be easily done by removing a tapered nut and retaining flange from each side. Individual brush wafers and spacers are to be mounted on the brush core.
21.9	The brush material is to be all poly.
21.10	Brush diameter to be a maximum of 70cm (28").
21.11	There shall be three (3) retractable storage stands designed to remain attached to brush frame while in use.
21.12	The weight of the entire brush and frame shall be approximately 320kg (704 lbs.).
21.13	Mounting frame designed to "pull" brush along surface.
21.14	A shock absorber shall be provided to keep brush in constant contact with surface.
21.15	Top and Lower pendulum bars to be provided along with spring loaded adjustment bolts which allows brush to follow uneven terrain.
21.16	A spray bar with (4) 110 degree nozzles at 12" spacing and diverter block shall be supplied. Brass quick coupler to be included.
21.17	A shield shall be installed covering approximately 50% of the brush circumference.
21.18	All hydraulic hoses to be equipped with colour-coded, 3/4" female couplers.
21.19	150L water tank built into broom design
21.20	Water tank shall have drain valve
<b>22. PLOUGH ATTACHMENT</b>	
22.1	Three (3) point Cat 1 hitch mount.
22.2	Shall have minimum angling of 28 degrees in each direction.
22.3	Expandable width to be from minimum 130 cm (51") closed to minimum 210 cm (83") fully open.
22.4	The Plough shall be able to expand both left hand and right hand sides simultaneously or either side independently.
22.5	All Plough functions are to be controlled from the joystick.
22.6	Cutting edge to be 12mm (0.5") thick and made from Hardox 400 steel. The edge shall be mounted vertically and be serrated to cut and scrape through compacted snow and ice conditions.
22.7	Blade height to be a minimum 60 cm (24").
22.8	Plough weight to be approximately 310 kg (682 lbs.).
22.9	Plough assembly shall have full trip capability. Adjustable heavy-duty spring to be provided for this function.
22.10	Plough mounted onto frame to be adjustable via two hole locations, floatation slots



<b>Preferred Specifications</b>	
	designed to provide mechanical oscillation.
22.11	Plough shall have end plates to contain material, if so desired. These can be manually raised/lowered and latched or can be swung hydraulically.
22.12	A solenoid valve body shall be provided and located on upper plough frame for easy access and trouble shooting.
22.13	Power source for solenoid valve to be via 7 pin round plug mounted on exterior front panel of tractor. Engagement from operator's seating position.
22.14	All hydraulic hoses to be equipped with colour-coded, 3/4" female couplers.
<b>23. WATER TANK ATTACHMENT</b>	
23.1	Rear over-engine tank mounting to be provided. Tank overall height shall not exceed roof height.
23.2	Pin-mounted steel frame will support the tank and pump and provide clearance to gain engine access.
23.3	Tank capacity shall be min. 550L (145 US gal).
23.4	There shall be running, directional and brake lights mounted at the rear on both sides of tank frame.
23.5	Tank to be constructed of roto-molded polyethylene and designed with interior baffles.
23.6	Dual element filtration shall be located in the tank to provide clean water for high pressure pump.
23.7	A hydraulically driven, twin piston pump shall be provided. The pump shall have a minimum 130 bar (1,885 psi) working pressure rating and a water flow rating of 30L/min (8 US gal). A manual bypass valve shall be supplied.
23.8	Minimum hydraulic flow required for pump operation is 40L/min (10.5 US gal) @ 2,000 RPM. This flow shall be available on the carrier and couplers are to be located at the rear, right side of the vehicle.
23.9	Hydraulic flow engagement to be in-cab via rocker switch on right hand side console.
23.10	A high pressure water line with brass couplers shall be provided and routed through the articulation of the vehicle. Both ends of the water line to be easily accessed.
23.11	The pump water supply port shall act as the tank drain. The port will be located at the bottom and near the front right corner of the tank.
23.12	A 2 inch quick-fill port shall be available and mounted at the top of the tank. A 6 meter (20') hose with same fitting will be supplied.
23.13	A plastic sight gauge tube to be supplied on the front right corner of the tank.
23.14	Four (4) adjustable support stands shall be supplied so vehicle can be driven out from under the tank when stored.
23.15	A slow moving sign to be mounted on the rear tank frame.
<b>24. FLUSHER ATTACHMENT</b>	
24.1	Shall be 3-point hitch mounted
24.2	Front spray bar to be 53" in width with an overall spray pattern of 60".
24.3	Six (6) nozzle bodies to be provided with stainless steel nozzle # 02 tips
24.4	Fan spray pattern to be 65 degrees
24.5	The spray boom shall be hydraulically angled, controlled via cab joystick
24.6	Two (2) adjustable support stands are to be supplied for storage
24.7	A built-in counterweight shall be part of the front spray system. This counterweight

<b>Preferred Specifications</b>	
	shall have a min. weight of 240kg (528 lbs.).
24.8	A retractable, front-mounted hose reel shall be supplied complete with 15 meter (50') of ½ inch hose and high pressure hand wand. The hose shall have a pressure rating of 275 bar (4000 psi).
24.9	The hose reel shall have the ability to swing 180 degrees and be locked in various positions.
24.10	The valve allowing the operator to divert from spray boom to hand gun shall be located at the front and near the hose reel.
<b>25. MISCELLANEOUS</b>	
25.1	Shop service, parts information, technical
25.2	Service bulletins (TSB's) SHALL be provided electronically by the authorized dealer - NO EXCEPTIONS
25.3	Units shall be supplied licensed, plated and insured, done through the City of Surrey's broker
25.4	Units shall meet all applicable transport regulations, both Federal and Provincial, and be permitted to be driven on roads.
25.5	Provide details of warranty for all components

– END OF PAGE –



**SCHEDULE B – FORM OF QUOTATION**

RFQ Title: Supply and Delivery of Three (3) Tractors/Tool Carriers with Sweeper, Sander, Snow Plough, Water Tank, and Water Flusher Attachments

RFQ No: 1220-040-2017-089

**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, 5<sup>th</sup> Floor West  
13450 – 104<sup>th</sup> Avenue, Surrey, B.C., V3T 1V8

Telephone: 604-590-7274

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

	<u>“Without Trade/s”</u>		
UNIT PRICE:	\$ _____	X 3	\$ _____
ENVIRONMENTAL LEVIES:			
BATTERY:	\$ _____	X 3	\$ _____
TIRE STEWARDSHIP B.C. (TSBC):			
ADVANCED DISPOSAL FEE (ADF):	\$ _____	X 3	\$ _____
AIR CONDITIONING:	\$ _____	X 3	\$ _____
ANY OTHER LEVIES OR FEES:	\$ _____	X 3	\$ _____
		<b>SUB-TOTAL:</b>	\$ _____
GST 5% on \$ _____:			\$ _____
PST 7% on \$ _____:			\$ _____
<b><u>TOTAL QUOTED PRICE:</u></b>			\$ _____

Payment Terms:

A cash discount of \_\_\_\_\_ % will be allowed if the invoices are 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.

**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 – SPECIFICATIONS WORKSHEET

### Supply and Delivery of Three (3) Tractors/Tool Carriers with Sweeper, Sander, Snow Plough, Water Tank and Water Flusher Attachments

#### 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 will 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)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
<b>1. DIMENSIONS</b>			
1.1 Overall length including rear bumper 126" (3200 mm)	<input type="checkbox"/>	<input type="checkbox"/>	
1.2 Height to top of cab 78" (1981 mm)	<input type="checkbox"/>	<input type="checkbox"/>	
1.3 Track width (winter tires) 47" (1194 mm)	<input type="checkbox"/>	<input type="checkbox"/>	
1.4 Overall width with fenders 47" (1194 mm)	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Inside Turning Radius 67" (1702 mm) maximum	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Articulation angle of 39 degrees each way	<input type="checkbox"/>	<input type="checkbox"/>	
1.7 Oscillation angle of 7 degrees above and below horizontal.	<input type="checkbox"/>	<input type="checkbox"/>	
1.8 Ground clearance of 8.75" (222 mm)	<input type="checkbox"/>	<input type="checkbox"/>	
<b>2. ENGINE</b>			
2.1 Four (4) cylinder, diesel, water cooled, engine, minimum 45 HP, minimum torque of 105 lb. ft. @1800 RPM. Shall meet latest engine emission standards, please state	<input type="checkbox"/>	<input type="checkbox"/>	
2.2 Cold starting aid: block heater and hydraulic	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
oil tank heater			
2.3 Quick change air filter with pre-cleaner mounted outside of engine compartment. To include service indicator (vacuum gauge)	<input type="checkbox"/>	<input type="checkbox"/>	
2.4 Buzzer, warning symbol system activated for; low oil pressure or high water temperature. Display to be shown in diagnostic display monitor	<input type="checkbox"/>	<input type="checkbox"/>	
2.5 Rear engine hood, side panels and grille shall be removable without tools. Once removed, complete engine access shall be available.	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 Rubber grommets are to be used on both panels and hood to dampen vibration. There shall be access to the engine oil dipstick without removal of any panel.	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Throttle to be controlled by hand lever & foot pedal.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>3. COOLING</b>			
3.1 Radiator fan to be protected by steel housing. Shall be able to reach complete radiator area for cleaning.	<input type="checkbox"/>	<input type="checkbox"/>	
3.2 Shall allow full access to entire cooling surface for cleaning (i.e. bottom area shall allow for full access).	<input type="checkbox"/>	<input type="checkbox"/>	
3.3 Combined cooler – hydraulic oil and engine coolant. Wide fin, no-barb design to allow maximum air flow and prevent clogging,	<input type="checkbox"/>	<input type="checkbox"/>	
3.4 Cooling fan shall be pusher-style	<input type="checkbox"/>	<input type="checkbox"/>	
<b>4. FRAME</b>			
4.1 Frame rails shall be of sufficient strength to withstand the rigors of heavy transport while traveling, complete with all front mounted attachments and rear sander combination.	<input type="checkbox"/>	<input type="checkbox"/>	
4.2 Shall have on-demand ride control operated via a switch. This will allow front 3 point linkage arms to float on a hydraulic accumulator circuit improving travel comfort	<input type="checkbox"/>	<input type="checkbox"/>	



Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
and safety.			
4.3 The machine shall be supplied with central greasing system of minimum 0.4gal (1.5L) capacity with display function.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>5. IMPLEMENT DRIVE</b>			
5.1 Shall be hydraulic drive operated by one of two hydraulic circuits, or both.	<input type="checkbox"/>	<input type="checkbox"/>	
5.2 First circuit to have minimum of 14 gpm (53 litres/min). Second circuit to have 9.5 gpm (36 litres/min).	<input type="checkbox"/>	<input type="checkbox"/>	
5.3 Provision to use both circuits simultaneously shall be available.	<input type="checkbox"/>	<input type="checkbox"/>	
5.4 Primary circuit (14 gpm/53 litres/min) to be double-acting (reversible).	<input type="checkbox"/>	<input type="checkbox"/>	
<b>6. FRONT HITCH</b>			
6.1 Front lift system shall consist of a 3 point hitch in compliance with category 1 hitch standards (3/4" top link pin diameter and 7/8" lift arm pin diameter).	<input type="checkbox"/>	<input type="checkbox"/>	
6.2 There shall be 2 forward extending hitch arms with two category 1 lift hooks.	<input type="checkbox"/>	<input type="checkbox"/>	
6.3 Lift hooks shall be self-locking and to be unlatchable from the top without tools.	<input type="checkbox"/>	<input type="checkbox"/>	
6.4 Lift hooks to be slide mounted such that each hook can be slid 6 inches horizontally on hitch arms to adapt to various attachments pin positions.	<input type="checkbox"/>	<input type="checkbox"/>	
6.5 Top link block shall provide 4 pin off holes for top link angle adjustments	<input type="checkbox"/>	<input type="checkbox"/>	
6.6 Hitch lift height at attachment forward extension point (i.e. blower and plough cutting edge shall lift to a minimum of 30" (762 mm) clear lift)	<input type="checkbox"/>	<input type="checkbox"/>	
6.7 Hydraulic lift control to provide feather-ability through a pilot controlled lift circuit.	<input type="checkbox"/>	<input type="checkbox"/>	
6.8 Front hitch to have switchable ride control using an in line accumulator	<input type="checkbox"/>	<input type="checkbox"/>	
6.9 Hitch to have latched switch controlled float	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
control			
6.10 Front hitch arms to be pinned to front frame (not cab base)	<input type="checkbox"/>	<input type="checkbox"/>	
<b>7. TRANSMISSION</b>			
7.1 Ground speed to be controlled in (4) interconnected ways: foot engine throttle, hand throttle, inching dial and foot inching pedal.	<input type="checkbox"/>	<input type="checkbox"/>	
7.2 A hand-operated inching valve used with the hand throttle, is to be supplied allowing adjustable ground speed to be set for attachment operation.	<input type="checkbox"/>	<input type="checkbox"/>	
7.3 Transmission may be shifted to neutral, forward, reverse from joystick by activating a switch without removing one's hand from the joystick.	<input type="checkbox"/>	<input type="checkbox"/>	
7.4 As a safety precaution, the joystick F/N/R function is to be disabled until the parking brake is released.	<input type="checkbox"/>	<input type="checkbox"/>	
7.5 Mechanical transmission to be a 1-speed reduction gear and driven by 2-speed hydraulic motor and provide a speed range of: 0 –11 mph (18 km/h) in low and 0-22 mph (36 km/h) in high.	<input type="checkbox"/>	<input type="checkbox"/>	
7.6 Shall be equipped with a load-sensing drive system which doesn't allow diesel engine to become overloaded	<input type="checkbox"/>	<input type="checkbox"/>	
7.7 Rear axle shall be connected to front axle to provide full drive line power and torque to be available in all working conditions.	<input type="checkbox"/>	<input type="checkbox"/>	
7.8 Drive line shall be located above the center articulation points in the center section. Below mounted drive line not acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
7.9 Drive flow hydraulic lines not to cross center section.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>8. AXLES</b>			
8.1 Axles shall be full floating planetary, with	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
limited slip differentials front and rear and automatic lock on front axle.			
8.2 Rated capacity of each axle shall be approx. 5,100 lbs. (2,320 kgs.)	<input type="checkbox"/>	<input type="checkbox"/>	
<b>9. BRAKING SYSTEM</b>			
9.1 Shall have a minimum of three (3) braking systems (hydrostatic, service and emergency/parking).	<input type="checkbox"/>	<input type="checkbox"/>	
9.2 Hydrostatic braking through driveline brakes when backing off foot pedal.	<input type="checkbox"/>	<input type="checkbox"/>	
9.3 Service brakes to be hydraulic actuated drum activating on all four wheels.	<input type="checkbox"/>	<input type="checkbox"/>	
9.4 Out board brakes not acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
9.5 Emergency/parking brake shall be act on all four wheels.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>10. HUBS, WHEELS AND TIRES</b>			
10.1 Industrial 6 bolt pattern with M18 studs.	<input type="checkbox"/>	<input type="checkbox"/>	
10.2 Supply and install five (5) deep lug radial winter tires to be 6 ply (LT235/75R15), mounted on heavy duty steel wheels.	<input type="checkbox"/>	<input type="checkbox"/>	
10.3 Industrial wheel rim and center flange with hub pilot centre featuring valve stem protectors.	<input type="checkbox"/>	<input type="checkbox"/>	
10.4 Valve stems to be protected with weld on stem protection ear.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>11. HYDRAULIC SYSTEM</b>			
11.1 Pump shall have built in priority flow divider to supply power steering	<input type="checkbox"/>	<input type="checkbox"/>	
11.2 Front of machine shall be equipped with two (2) pairs of function (auxiliary couplers), one (1) 14gpm (53 litres/min), (1) 9.5gpm (36 litres/min) coupler and a case drain coupler.	<input type="checkbox"/>	<input type="checkbox"/>	
11.3 Rear of machine shall be equipped with one (1) pair 14gpm (53 litres/min) motor spool couplers with case drain and (1) pair of auxiliary couplers.	<input type="checkbox"/>	<input type="checkbox"/>	
11.4 Hydraulic pressurized oil fill top up system through tank filter. No reservoir free pour	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
access port to be provided.			
11.5 External hydraulic tank oil level indicator glass	<input type="checkbox"/>	<input type="checkbox"/>	
11.6 All cylinders feature self-aligning spherical bearing body and rod ends (long life feature)	<input type="checkbox"/>	<input type="checkbox"/>	
11.7 All hydraulic pumps to be driven on the fly wheel end of engine only.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>12. ELECTRICAL</b>			
12.1 12 Volt DC, negative ground with a 650cca, group 31 battery, 65 amp alternator & voltmeter, battery disconnection switch protection.	<input type="checkbox"/>	<input type="checkbox"/>	
12.2 An emergency stop button to be included, mounted on dash panel	<input type="checkbox"/>	<input type="checkbox"/>	
12.3 Fuses to be mounted behind dash console. Fuse/relay diagram decal to be placed on inside cover.	<input type="checkbox"/>	<input type="checkbox"/>	
12.4 Switches and dials for lights, heater, A/C, parking brake, heated mirrors to be mounted on dash in group formation	<input type="checkbox"/>	<input type="checkbox"/>	
12.5 Supply and install low hydraulic oil level light and buzzer	<input type="checkbox"/>	<input type="checkbox"/>	
12.6 Illuminated display monitor showing the following: I. Warning for low hydraulic oil level II. Tachometer / hour meter III. Coolant temperature IV. Engine oil pressure w/ signal light V. Hydraulic oil temperature VI. Voltmeter VII. Fuel level	<input type="checkbox"/>	<input type="checkbox"/>	
<b>13. LIGHTING</b>			
13.1 There shall be two (2) headlights, four (4) forward and two (2) rearward facing work lights, all to be mounted at top of cab. Two backup lights shall operate with reverse switch and on-demand via dash rocker switch.	<input type="checkbox"/>	<input type="checkbox"/>	
13.2 There shall be two rear rubber-mounted	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
combination tail/signal lights			
13.3 There shall be four way "hazard" flashers and self-cancelling turn signals	<input type="checkbox"/>	<input type="checkbox"/>	
13.4 A rubber based warning beacon with breakaway mount shall be provided	<input type="checkbox"/>	<input type="checkbox"/>	
<b>14. CAB</b>			
14.1 The cab shall be "ROPS Certified" to ISO-3471 specifications and bear a certification label	<input type="checkbox"/>	<input type="checkbox"/>	
14.2 Cab shall be rubber isolation mounted (cab shall not be ride mounted or integrated to front frame)	<input type="checkbox"/>	<input type="checkbox"/>	
14.3 Cab to feature one left side opening forward swinging door with left side sliding window	<input type="checkbox"/>	<input type="checkbox"/>	
14.4 Door hinges to have individual grease nipples and replacement brass hinge carry washers	<input type="checkbox"/>	<input type="checkbox"/>	
14.5 Noise level to be 73-74 DBA inside at max engine rev.	<input type="checkbox"/>	<input type="checkbox"/>	
14.6 Cab glass to be mounted to bolted (not glued) aluminum sub frames for quick exchange	<input type="checkbox"/>	<input type="checkbox"/>	
14.7 Mirror to be mounted in cab frame (not door) using adjustable friction mounts to hold mirror position but allow swing away protection	<input type="checkbox"/>	<input type="checkbox"/>	
14.8 Mirrors to be heated	<input type="checkbox"/>	<input type="checkbox"/>	
14.9 Cab heat vents shall be placed in 4 positions within the cab interior	<input type="checkbox"/>	<input type="checkbox"/>	
14.10 At the entire front windshield base area from left to right in the form of a manifold with 10 or more openings	<input type="checkbox"/>	<input type="checkbox"/>	
14.11 Side window defrosting in the cab "B" pillars left and right with adjustable vents	<input type="checkbox"/>	<input type="checkbox"/>	
14.12 Floor heating vents that have adjustable air flow direction and rate	<input type="checkbox"/>	<input type="checkbox"/>	
14.13 Air fan shall be 3 speed or variable flow	<input type="checkbox"/>	<input type="checkbox"/>	
14.14 Top headliner located defrost vents not	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
acceptable.			
14.15 A separate air recirculation control shall all from 0-100% of air to recirculate or provide full pressurization	<input type="checkbox"/>	<input type="checkbox"/>	
14.16 Air intake shall be filtered with a replaceable paper element	<input type="checkbox"/>	<input type="checkbox"/>	
14.17 Separate recirculation air filters (replaceable) shall be included separately from intake filter system	<input type="checkbox"/>	<input type="checkbox"/>	
14.18 Right side window to have a full opening swing out feature for training and operator emergency egress	<input type="checkbox"/>	<input type="checkbox"/>	
14.19 Cab wipers to be pantograph front, featuring grease and rear with separate controls and washer systems.	<input type="checkbox"/>	<input type="checkbox"/>	
14.20 Front pantograph wiper arms to have long life wiper blade bushings with refillable grease caps.	<input type="checkbox"/>	<input type="checkbox"/>	
14.21 Beacon lights to be DIN post mounted with swing down features	<input type="checkbox"/>	<input type="checkbox"/>	
14.22 Red stop button dash mounted for driver emergency shut down	<input type="checkbox"/>	<input type="checkbox"/>	
14.23 Cab to contain: <ul style="list-style-type: none"> <li>I. Horn</li> <li>II. 3 Speed heater defroster</li> <li>III. 2 Speed pantograph wiper with intermittent control</li> <li>IV. Windshield washer</li> <li>V. Floor mats</li> <li>VI. Inside rear view mirror</li> <li>VII. Exterior heated mirrors</li> <li>VIII. Dome lights with blue and/or white lighting</li> <li>IX. 2 Point seat belt</li> <li>X. Sound absorption lining</li> <li>XI. AM/FM/CD Radio, mounted overhead</li> <li>XII. Tilt steering in column</li> <li>XIII. Removable door and side panel</li> <li>XIV. Flat step for safe entry</li> <li>XV. Heated, air-ride operator seat</li> <li>XVI. Overhead roof window</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
XVII. Air-conditioner with cab pressurizer below roof line and extra heat to be controlled on the dash panel XVIII. Supply and install guard for headlight protection XIX. Rear mounted windshield wiper/washer XX. Sun visor XXI. Flat floor with no drive line hump			
<b>15 SEAT</b>			
15.1 Heated, air auto adjusting seat for drivers weight	<input type="checkbox"/>	<input type="checkbox"/>	
15.2 Air lumbar and bolster adjustments	<input type="checkbox"/>	<input type="checkbox"/>	
15.3 Right side adjustable arm rest integrated for wrist position support for right side mounted joy stick	<input type="checkbox"/>	<input type="checkbox"/>	
<b>16 JOY STICK</b>			
16.1 True pilot controlled joy stick control (electronic joy stick not acceptable)	<input type="checkbox"/>	<input type="checkbox"/>	
16.2 Joy stick is seat mounted such that the operator and joystick move together on the same suspension	<input type="checkbox"/>	<input type="checkbox"/>	
16.3 4 line hydraulic pilot control system from base of joy stick piped to joy stick pilot valve below the cab floor then controls main high pressure valve mounted to machine frame (cab mounting not acceptable)	<input type="checkbox"/>	<input type="checkbox"/>	
16.4 Pilot control valve to function at low pressure then activating main valve at full working pressure and flows	<input type="checkbox"/>	<input type="checkbox"/>	
16.5 Joy stick to have 4 way adjustment stick up, down, forward and backward adjustment	<input type="checkbox"/>	<input type="checkbox"/>	
16.6 True seat mounting of joy stick (console or dash mounted not acceptable)	<input type="checkbox"/>	<input type="checkbox"/>	
<b>17 STEERING</b>			
17.1 Two double acting steering cylinders operate the articulated steering system	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
17.2 Priority flow at low system pressures to provide safe independent oil pressure to steering cylinders	<input type="checkbox"/>	<input type="checkbox"/>	
17.3 Steering cylinders to feature rod and body pivot ends to be replaceable, spherical, self-aligning bearing ends with captive pin ends	<input type="checkbox"/>	<input type="checkbox"/>	
17.4 Steering pins to be tempered with upper and lower wedge pin mounts that prevents frame housing wear	<input type="checkbox"/>	<input type="checkbox"/>	
17.5 Individual grease lines to be mounted to all four ends of cylinder bearing	<input type="checkbox"/>	<input type="checkbox"/>	
17.6 Articulation steering bump stops to be designed <b>not</b> to allow steering cylinders to bottom out at steering angle limits (cylinder protection feature)	<input type="checkbox"/>	<input type="checkbox"/>	
<b>18 WATER PUMP</b>			
18.1 All hoses, wiring, switch and quick coupler shall be installed for future optional water/chemical pump.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>19 FUEL TANK</b>			
19.1 Single fuel tank with lockable fuel cap to be supplied.	<input type="checkbox"/>	<input type="checkbox"/>	
19.2 Shall have 13.0 gal. (50L) minimum capacity.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>20 SPREADER ATTACHMENT</b>			
20.1 Spreader to be constructed of galvanized steel	<input type="checkbox"/>	<input type="checkbox"/>	
20.2 Spreader to be hook-mounted to rear of carrier requiring no tools for installation or dismantling. Shall be self-loading.	<input type="checkbox"/>	<input type="checkbox"/>	
20.3 Shall be hydraulically driven with engagement from within cab.	<input type="checkbox"/>	<input type="checkbox"/>	
20.4 Engagement and disengagement shall be independent from front mounted attachments.	<input type="checkbox"/>	<input type="checkbox"/>	
20.5 Minimum 1/3 cu.yd. capacity.	<input type="checkbox"/>	<input type="checkbox"/>	
20.6 Spread shall be by means of a roller with cams which disperses small spots of material in a grid pattern.	<input type="checkbox"/>	<input type="checkbox"/>	
20.7 Spread distance per hopper load shall be 5-8	<input type="checkbox"/>	<input type="checkbox"/>	



Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
kms (3-5 miles).			
20.8 2 Storage legs/stands to be provided, pin-mounted on the spreader to aid in removal and keep the spreader upright when stored.	<input type="checkbox"/>	<input type="checkbox"/>	
20.9 Shall have a total width of 44" and a spread width of approximately 41 inches.	<input type="checkbox"/>	<input type="checkbox"/>	
20.10 Shall have colour coded, 3/4' female hydraulic quick couplers.	<input type="checkbox"/>	<input type="checkbox"/>	
20.11 Ground clearance to be not less than 12 inches.	<input type="checkbox"/>	<input type="checkbox"/>	
20.12 Hopper to have a plastic cover.	<input type="checkbox"/>	<input type="checkbox"/>	
20.13 Agitator to have 11 bolts, 12mm (1/2") x 13cm (5"), rotating on a 4cm (1.5") square shaft.	<input type="checkbox"/>	<input type="checkbox"/>	
20.14 Delivery roller to be minimum 11.5 cm (4.5") in diameter with 4mm full-length cams	<input type="checkbox"/>	<input type="checkbox"/>	
20.15 Hydraulic drive motor to be located in upper left hand corner of hopper (when raised) so as to be protected when loading.	<input type="checkbox"/>	<input type="checkbox"/>	
20.16 An adjustable hydraulic flow valve shall be supplied on spreader frame. This will allow for fine adjustment of spreading rate.	<input type="checkbox"/>	<input type="checkbox"/>	
20.17 The agitator and roller chain shall be on left hand side of spreader and enclosed with a steel cover.	<input type="checkbox"/>	<input type="checkbox"/>	
20.18 Grease fittings shall be easily accessible from both sides of spreader body.	<input type="checkbox"/>	<input type="checkbox"/>	
20.19 Bolt on protective screen shall be installed. Hole size shall be maximum 2"x1.5".	<input type="checkbox"/>	<input type="checkbox"/>	
20.20 Minimum required dimensions to be 44" wide x 31" high x 21" deep.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>21 SWEEPER ATTACHMENT</b>			
21.1 3 point hitch, Cat.1 mount	<input type="checkbox"/>	<input type="checkbox"/>	
21.2 Maximum working width of 140cm (55")	<input type="checkbox"/>	<input type="checkbox"/>	
21.3 Shall have the ability to hydraulically angle left and right a minimum of 27 degrees in each direction.	<input type="checkbox"/>	<input type="checkbox"/>	
21.4 Shall have the ability to hydraulically side shift a minimum to the left 21.5cm (8.5") and	<input type="checkbox"/>	<input type="checkbox"/>	

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to the right 26.5cm (10.5"). This will allow material removal along an object (wall, fence, etc.) while keeping carrier away from the object.			
21.5 Brush shall be able to remain straight or angled left/right when side shifted. Operation of angling, side shifting and lifting to be done via joystick control.	<input type="checkbox"/>	<input type="checkbox"/>	
21.6 The brush drive shall be hydraulic, from a source of maximum 50L/min (13.2 gpm) at 190 bar (2750 psi)	<input type="checkbox"/>	<input type="checkbox"/>	
21.7 The hydraulic motor shall be center mounted to avoid contact with any objects	<input type="checkbox"/>	<input type="checkbox"/>	
21.8 Replacing the bristles shall be easily done by removing a tapered nut and retaining flange from each side. Individual brush wafers and spacers are to be mounted on the brush core.	<input type="checkbox"/>	<input type="checkbox"/>	
21.9 The brush material is to be all poly.	<input type="checkbox"/>	<input type="checkbox"/>	
21.10 Brush diameter to be a maximum of 70cm (28").	<input type="checkbox"/>	<input type="checkbox"/>	
21.11 There shall be three retractable storage stands designed to remain attached to brush frame while in use.	<input type="checkbox"/>	<input type="checkbox"/>	
21.12 The weight of the entire brush and frame shall be Approximately 320kg (704 lbs.).	<input type="checkbox"/>	<input type="checkbox"/>	
21.13 Mounting frame designed to "pull" brush along surface.	<input type="checkbox"/>	<input type="checkbox"/>	
21.14 A shock absorber shall be provided to keep brush in constant contact with surface.	<input type="checkbox"/>	<input type="checkbox"/>	
21.15 Top and Lower pendulum bars to be provided along with spring loaded adjustment bolts which allows brush to follow uneven terrain.	<input type="checkbox"/>	<input type="checkbox"/>	
21.16 A spray bar with (4) 110 degree nozzles at 12" spacing and diverter block shall be supplied. Brass quick coupler to be included.	<input type="checkbox"/>	<input type="checkbox"/>	
21.17 A shield shall be installed covering approximately 50 % of the brush	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
circumference.			
21.18 All hydraulic hoses to be equipped with colour-coded, 3/4" female couplers.	<input type="checkbox"/>	<input type="checkbox"/>	
21.19 150L water tank built into broom design	<input type="checkbox"/>	<input type="checkbox"/>	
21.20 Water tank shall have drain valve	<input type="checkbox"/>	<input type="checkbox"/>	
<b>22 PLOUGH ATTACHMENT</b>			
22.1 3 point Cat 1 hitch mount.	<input type="checkbox"/>	<input type="checkbox"/>	
22.2 Shall have minimum angling of 28 degrees in each direction.	<input type="checkbox"/>	<input type="checkbox"/>	
22.3 Expandable width to be from minimum 130 cm (51") closed to minimum 210 cm (83") fully open.	<input type="checkbox"/>	<input type="checkbox"/>	
22.4 The plough shall be able to expand both left hand and right hand sides simultaneously or either side independently.	<input type="checkbox"/>	<input type="checkbox"/>	
22.5 All plough functions are to be controlled from the joystick.	<input type="checkbox"/>	<input type="checkbox"/>	
22.6 Cutting edge to be 12mm (0.5") thick and made from Hardox 400 steel. The edge shall be mounted vertically and be serrated to cut and scrape through compacted snow and ice conditions.	<input type="checkbox"/>	<input type="checkbox"/>	
22.7 Blade height to be a minimum 60 cm (24").	<input type="checkbox"/>	<input type="checkbox"/>	
22.8 Plough weight to be approximately 310 kg (682 lbs.).	<input type="checkbox"/>	<input type="checkbox"/>	
22.9 Plough assembly shall have full trip capability. Adjustable heavy-duty spring to be provided for this function.	<input type="checkbox"/>	<input type="checkbox"/>	
22.10 Ten (10) plough mounted onto frame to be adjustable via 2 hole locations, floatation slots designed to provide mechanical oscillation.	<input type="checkbox"/>	<input type="checkbox"/>	
22.11 Plough shall have end plates to contain material, if so desired. These can be manually raised/lowered and latched or can be swung hydraulically.	<input type="checkbox"/>	<input type="checkbox"/>	
22.12 A solenoid valve body shall be provided and located on upper plough frame for easy access and trouble shooting.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
22.13 Power source for solenoid valve to be via 7 pin round plug mounted on exterior front panel of tractor. Engagement from operator's seating position.	<input type="checkbox"/>	<input type="checkbox"/>	
22.14 All hydraulic hoses to be equipped with colour-coded, 3/4" female couplers.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>23 WATER TANK ATTACHMENT</b>			
23.1 Rear, over-engine tank mounting to be provided, tank overall height shall not exceed roof height.	<input type="checkbox"/>	<input type="checkbox"/>	
23.2 Pin-mounted steel frame will support the tank and pump and provide clearance to gain engine access.	<input type="checkbox"/>	<input type="checkbox"/>	
23.3 Tank capacity shall be min. 550L (145 US gal).	<input type="checkbox"/>	<input type="checkbox"/>	
23.4 There shall be running, directional and brake lights mounted at the rear on both sides of tank frame.	<input type="checkbox"/>	<input type="checkbox"/>	
23.5 Tank to be constructed of roto-molded polyethylene and designed with interior baffles.	<input type="checkbox"/>	<input type="checkbox"/>	
23.6 Dual element filtration shall be located in the tank to provide clean water for high pressure pump.	<input type="checkbox"/>	<input type="checkbox"/>	
23.7 A hydraulically driven, twin piston pump shall be provided. The pump shall have a minimum 130 bar (1,885 psi) working pressure rating and a water flow rating of 30L/min (8 US gal). A manual bypass valve shall be supplied.	<input type="checkbox"/>	<input type="checkbox"/>	
23.8 Minimum hydraulic flow required for pump operation is 40L/min (10.5 US gal) @ 2,000 RPM. This flow shall be available on the carrier and couplers are to be located at the rear, right side of the vehicle.	<input type="checkbox"/>	<input type="checkbox"/>	
23.9 Hydraulic flow engagement to be in-cab via rocker switch on right hand side console.	<input type="checkbox"/>	<input type="checkbox"/>	
23.10 A high pressure water line with brass couplers shall be provided and routed	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
through the articulation of the vehicle. Both ends of the water line to be easily accessed.			
23.11 The pump water supply port shall act as the tank drain. The port will be located at the bottom and near the front right corner of the tank.	<input type="checkbox"/>	<input type="checkbox"/>	
23.12 A 2" quick-fill port shall be available and mounted at the top of the tank. A 6m (20') hose with same fitting will be supplied.	<input type="checkbox"/>	<input type="checkbox"/>	
23.13 A plastic sight gauge tube to be supplied on the front right corner of the tank.	<input type="checkbox"/>	<input type="checkbox"/>	
23.14 Four (4) adjustable support stands shall be supplied so vehicle can be driven out from under the tank when stored.	<input type="checkbox"/>	<input type="checkbox"/>	
23.15 A slow moving sign to be mounted on the rear tank frame.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>24 FLUSHER ATTACHMENT</b>			
24.1 Shall be 3-point hitch mounted	<input type="checkbox"/>	<input type="checkbox"/>	
24.2 Front spray bar to be 53" in width with an overall spray pattern of 60".	<input type="checkbox"/>	<input type="checkbox"/>	
24.3 Six (6) nozzle bodies to be provided with stainless steel nozzle # 02 tips	<input type="checkbox"/>	<input type="checkbox"/>	
24.4 Fan spray pattern to be 65 degrees			
24.5 The spray boom shall be hydraulically angled, controlled via cab joystick	<input type="checkbox"/>	<input type="checkbox"/>	
42.6 Two (2) adjustable support stands are to be supplied for storage	<input type="checkbox"/>	<input type="checkbox"/>	
24.7 A built-in counterweight shall be part of the front spray system. This counterweight shall have a min. weight of 240kg (528 lbs.).	<input type="checkbox"/>	<input type="checkbox"/>	
24.8 A retractable, front-mounted hose reel shall be supplied complete with 15m (50') of ½" hose and high pressure hand wand. The hose shall have a pressure rating of 275 bar (4000 psi).	<input type="checkbox"/>	<input type="checkbox"/>	
24.9 The hose reel shall have the ability to swing 180 degrees and be locked in various positions.	<input type="checkbox"/>	<input type="checkbox"/>	
24.10 The valve allowing the operator to divert from	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment Offered. Contractor shall complete all spaces in this column.
spray boom to hand gun shall be located at the front and near the hose reel.			
<b>25 MISCELLANEOUS</b>			
25.1 Shop service, parts information, technical	<input type="checkbox"/>	<input type="checkbox"/>	
25.2 Service bulletins (TSB's) SHALL be provided electronically by the authorized dealer - NO EXCEPTIONS	<input type="checkbox"/>	<input type="checkbox"/>	
25.3 Units shall be supplied licensed, plated and insured, done through the City of Surrey's broker	<input type="checkbox"/>	<input type="checkbox"/>	
25.4 Units shall meet all applicable transport regulations, both Federal and Provincial, and be permitted to be driven on roads.	<input type="checkbox"/>	<input type="checkbox"/>	
25.5 Provide details of warranty for all components	<input type="checkbox"/>	<input type="checkbox"/>	

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