



REQUEST FOR QUOTATIONS

Title: Supply and Delivery of Two (More or Less) Backhoes

Reference No.: 1220-040-2021-055

FOR THE SUPPLY OF GOODS

(General Services)

Issue Date: June 21st, 2021

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REQUEST FOR QUOTATIONS

1. INTRODUCTION

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

2. ADDRESS FOR DELIVERY

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

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

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

3. DATE

The City would prefer to receive Quotations on or before July 13th, 2021 (the “**Date**”).

4. INQUIRIES

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

Name: Richard D. Oppelt, Manager, Procurement Services

Email: purchasing@surrey.ca

Reference: 1220-040-2021-055

Inquiries should be made no later than 7 business days before the Date set out in Section 3. The City reserves the right not to respond to inquiries made within 7 business days of the Date set out in Section 3. Inquiries and responses will be recorded and may be distributed to all Contractors at the discretion of the City.

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

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

5. ADDENDA

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

6. NO CONTRACT

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

7. ACCEPTANCE

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

8. CONTRACTOR'S EXPENSES

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

9. CONTRACTOR'S QUALIFICATIONS

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

10. CONFLICT OF INTEREST

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

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

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

12. CONFIDENTIALITY

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

13. SIGNATURE

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

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

14. EQUIVALENTS, SUBSTITUTIONS, ALTERNATIVES

Unless otherwise expressly stated, if and wherever the specifications set out in Schedule A - Specifications of Goods to Attachment 1 – Quotation Agreement - Goods, use a brand name of a manufacturer, make, trade name, or catalogue designation in specifying an item, it does not restrict Contractors to the identified manufacturer, make, trade name, or catalogue designation. The usage of such identification is simply to indicate the character, quality and/or performance equivalence of the commodity identified.

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

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

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

15. ANTICIPATED QUANTITIES

The City reserves the right and discretion to place orders on quoted items during the duration of the term of the agreement as per Schedule B – Quotation on an as per need basis. All quantities are anticipated quantities only and may or may not increase or decrease according to requirements.

Attachment No. 1 – DRAFT QUOTATION AGREEMENT – GOODS

Reference RFQ Title: Supply and Delivery of Two (2) (More or Less) Backhoes

Reference No.: 1220-040-2021-055

THIS AGREEMENT dated for reference this __ day of _____, 2021.

BETWEEN:

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

AND:

(the "**Contractor**")
[INSERT THE FULL LEGAL NAME AND ADDRESS OF CONTRACTOR]

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

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

DEFINITIONS AND INTERPRETATION

1. In these General Terms and Conditions:
 - (a) "Agreement" means this agreement and all schedules attached hereto;
 - (b) "City" means the City of Surrey;
 - (c) "Contractor" means a contractor whose Quotation has been accepted by the City and who is supplying the Goods under this Agreement;
 - (d) "Goods" means the equipment or materials that are the subject of this Agreement; and
 - (e) "Purchase Price" means the price quoted by the Contractor and accepted by the City, unless otherwise agreed by the parties in writing, and includes all taxes, duties, freight charges and other charges except GST and PST.

2. This Agreement may be modified only by express and specific written agreement. In the event of a conflict between the provisions of any documents listed below, then the documents shall govern and take precedence in the following order:
 - (a) this Agreement;
 - (b) Schedule B – Quotation Extracts;
 - (c) Schedule A – Specifications of Goods; and
 - (d) other terms, if any, that are agreed to by the parties in writing.

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

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

GOODS

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

PURCHASE PRICE

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

TIME

7. Time is of the essence.

PAYMENT

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

11. Payments to Contractors will be made through Electronic Funds Transfer (EFT), directly into the Contractor's bank account. An EFT application form will be provided to the Contractor for completion.

DEFICIENCIES

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

DEFAULT AND TERMINATION

14. In the event the Contractor does not ship the Goods by the shipping date specified in this Agreement, or does not deliver the Goods by the delivery date specified in this Agreement, or otherwise fails to comply with the requirements of this Agreement, then:
 - (a) the City reserves the right to terminate this Agreement, in whole or in part, and in the event of such termination no payment will be owing by the City on account of this Agreement and the Contractor will be liable for any and all expenses or loss resulting from such failure or delay and will return all monies paid by the City; or
 - (b) if the City does not terminate this Agreement for late shipping or delivery, the City may deduct and setoff from any payments owing to the Contractor all additional costs the City reasonably incurs on account of the late shipping or delivery.
15. The City may by written notice at any time cancel this Agreement with respect to Goods which, as of the date of cancellation, have not been shipped.
16. If the Contractor becomes insolvent or makes an assignment for the benefit of creditors or a receiver or trustee is appointed for the property of the Contractor, then the City may, at its election, and without prejudice to its rights at law or in equity, terminate this Agreement.
17. The City will not accept nor be responsible for any restocking charges for any Goods shipped to the City and then, for whatever reason, returned to the Contractor pursuant to this Agreement. The Contractor is to bear all costs including shipping and handling of returned Goods.

WARRANTIES AND INDEMNITIES

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

CUSTOMS

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

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

INSPECTIONS

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

SAFETY

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

WHMIS/MSDS

25. The Contractor covenants and agrees to comply with all the Workers Compensation Board Occupational Health and Safety Regulations for hazardous materials and substances, and in particular with the “Workplace Hazardous Materials Information Systems (WHMIS)” Regulations. All “Material Safety Data Sheets (MSDS)” will be shipped along with the Goods and any future MSDS updates will be forwarded.

SHOP DRAWINGS

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

WAIVER

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

APPLICABLE LAW

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

NOTICES

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

The addresses for delivery will be as follows:

- (a) The City:
Attention:

- (b) The Contractor:
Attention:

MERGER AND SURVIVAL

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

ENTIRE AGREEMENT

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

establish conflicting terms and conditions to those set out in this Agreement are expressly rejected by the City.

SIGNATURE

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

ENUREMENT

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

IN WITNESS WHEREOF the parties hereto have executed this Agreement on the day and year first above written.

CITY OF SURREY

by its authorized signatory:

(Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory)

CONTRACTOR

I/We have the authority to bind the Contractor:

(Full 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)

SCHEDULE A – SPECIFICATIONS OF GOODS

1. GENERAL DESCRIPTION

It is the intent of this specification to provide for the purchase, and delivery of two (2) (more or less) new and unused 2021/2022 model year Backhoe/Loader. The unit bid shall be the manufacturer's current production model that meet or exceed the following preferred technical specifications. Only a standard production machine may be bid on these specifications and a supplier will not be permitted to modify his standard production unit in order to meet these specifications.

2. PREFERRED TECHNICAL SPECIFICATIONS

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

Quotations will be accepted for consideration on any make or model that is equal or superior to the machine specified. Decisions of equivalency will be at the sole interpretation of the Fleet and Garage Manager of Surrey's Engineering Department. A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the Quotation.

Contractor must be prepared to demonstrate a unit similar to the one proposed, if requested.

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

As part of their Quotation, Contractors should complete and submit Schedule B-1 (Preferred Technical Specifications Response Form).

3. QUALITY

Backhoe/loader shall be manufactured by a company with a registered quality standard no less than ISO 9001.

4. DELIVERY REQUIREMENTS

The Contractor will deliver the vehicle(s) free and clear of all liens and encumbrances in the manner and to the destination stipulated. In the event of the Contractor's failure to meet this condition, the Contractor will, on written notice from the City, forthwith return all monies paid by the City on account of the vehicle(s) and in addition the City may by written notice terminate this Agreement without liability, and in such event, in addition to the above, the Contractor will be liable for any and all expenses or losses incurred by the City resulting from such failure.

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

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

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

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

5. TITLE, RISK OF LOSS, FREIGHT

Title of goods received under a purchase order agreement shall remain with the Contractor until they are delivered to the City's Works Yard, located at 14687 – 66th Ave., Surrey, BC at which time title passes to the City of Surrey. The Contractor will bear all risks of loss, theft, injury, or destruction or damage of goods and materials ordered herein which occur prior to delivery and acceptance. Such loss, injury, or destruction or damage shall not release the Contractor from any obligations under.

6. OPTIONAL ITEMS

The City of Surrey may choose, at its sole discretion, to add any or all of the optional items to this purchase. Contractor shall provide on a cover letter with a list of options and prices.

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, tracks, engine, batteries, transmission, axles, electrical components to cover the Good;
- One (1) **Parts Manual** covering the entire Good;
- Complete **Parts List** of all belts, hoses, and filters; including part numbers, manufacturer and use; and
- **Fluid Capacities** in litres.

SCHEDULE A-1 – PREFERRED TECHNICAL SPECIFICATIONS

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

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

For greater certainty, the requirements listed in Schedule A-1 Preferred Technical Specifications and Schedule B-1 Preferred Technical Specifications Response Form are identical.

The only difference between the two Schedules is that Schedule B-1 contains three additional columns for the Contractor to enter information regarding its own Proposal.

Preferred Technical Specifications
A. ENGINE
1. Four cylinder, turbocharged, isolation mounted diesel engine
2. Engine shall be certified to EPA Tier 4 final emissions or better
3. Engine shall have a individually replaceable, wet-sleeve cylinder liner design
4. Engine displacement shall be no less than 4.5 liters
5. Engine rated net peak power (ISO9249) shall be no less than (80 kW) @ 2000 rpm
6. Engine shall develop at least 317 lb-ft (430 Nm) net torque at 1400 rpm
7. Daily check points shall be accessible from the right side of the engine and shall be done from ground level
8. Engine shall have a serpentine belt with automatic belt tensioner
9. Under-hood engine air cleaner shall be dry type, dual element with evacuator valve, restriction sensor and in-cab restriction warning light
10. The backhoe shall have an underhood after treatment device which is not required to be regen'd (preferred no DPF) with curved-end black (not chrome) exhaust stack
11. The backhoe shall have a tilt hood for easy engine access
12. Primary fuel filter shall have no more than 30-micron rated primary filter with water separator
13. Secondary fuel filter shall have no more than a 5-micron rated filter
14. Engine will be equipped with a water-in-fuel sensor
B. COOLING
1. Engine coolant shall be rated to -40 degrees (-40C)
2. The backhoe shall be equipped with an oil-to-water engine oil cooler
3. Unit shall have a coolant recovery tank provided
4. Unit shall have an electronically-controlled, variable rate suction-type fan with guard for reduced HP draw, reduced fuel consumption and quieter operation
5. Foldout, hinged cooling system will allow for efficient clean out
6. The hydraulic and transmission circuits will be water cooled

Preferred Technical Specifications
C. POWER TRAIN
1. The transmission shall be power shift with torque converter with maximum road speed of 40km/h; clutch-free; with minimum of four forward speeds & a minimum of three reverse speeds
2. Machines with an option of having an Auto shift Transmission available from the factory will be considered
3. The front axle will be mechanical-front-wheel-drive (MFWD) with traction control limited-slip differential with electric on/off control
4. The clutch engaged MFWD can be engaged on the fly during operation.
5. The machine will disengage MFWD in at road speeds of approximately 20 km/h to allow for longer life of tires and drive train and reduced fuel consumption
6. Machine will automatically engage MFWD when brakes are applied for four wheel braking
7. The axle will be sealed with no breather to protect against contamination
8. The transmission shall be isolation mounted to the mainframe to minimize shock load stress
9. The rear axle shall have a differential lock, electric actuated as standard equipment
10. The operator can enable a differential lock protection in the monitor, which will not allow the differential lock to be engaged above 1000 rpm to prevent damage to components
11. The single electric Transmission Control Lever will have gear selection fully integrated in the lever
12. Transmission oil cooler shall be provided as standard equipment
13. The backhoe shall have hydrostatic power steering with emergency manual mode
14. The machine will have a dial throttle that will allow the operator to road the machine on cruise control. Upon engagement of the brake pedal, the engine RPMs return to idle
15. The final drives shall be heavy-duty outboard planetary distributing loads over four gears sealed in cooling oil bath
16. The front axle shall have remote grease bank for front axle for easy access.
17. The rear axle bearings shall be self-lubricating and shall not need to be greased
18. The service brakes shall be self-adjusting and self-equalizing and hydraulically actuated for a long and trouble-free life, sealed from water, mud and dust contamination
19. The parking brake shall be independent of service brakes, spring applied, hydraulically released, wet multi-disk, and sealed from water, mud and dust contamination.
20. Park brake will automatically apply when engine is shut off
D. HYDRAULIC SYSTEM
1. The hydraulic fittings shall have "O"-ring face seal connectors to secure a tight, leak-free seal
2. Hydraulic cooler will have an independent reservoir
3. The hydraulic filter shall be no more than 7 micron and will be vertically mounted, spin on design for ease of installation and leak-free replacement.
4. Machine shall be equipped with Auto Idle to lower rpm when hydraulics are not engaged
5. Machine shall be equipped with Economy Mode that can be activated, to provide the maximum productivity and maximum fuel efficiency in 1st & 2nd gears
6. An automatic bucket return-to-dig control will be standard
7. Hydraulic pump shall be an axial piston pump, pressure compensating, load sensing
8. Machine shall be supplied with piping and flat faced hydraulic quick couplers for connecting a hoe pack – hoe back to be easily controlled by the operator along with the hydraulic "Pin Grabber"

Preferred Technical Specifications
E. ELECTRICAL
1. The backhoe shall be 12 volts with a minimum 160 amp alternator
2. Single battery, 12 volt, 950 CCA, 190-min. rated reserve
3. The machine shall have blade type, multi-fused circuits
4. The starter shall have a bypass start safety cover
5. Cab will be pre-wired for rotating beacon light and 2 way radio-ready. The beacon shall have its own power supply and be switched.
6. Unit shall be equipped with 10 LED driving/working lights, (4) front driving/working; (4) rear; (2) side docking lights. The front lights shall be adjustable.
7. Unit shall be equipped with a Telematics systems that can provide fleet management, logistics and remote diagnostics capabilities. Provide information and ongoing cost of system
8. Unit shall be equipped with two front and two rear turn signal/flashing and two rear stop and tail lights and two rear reflectors
F. CAB
1. Unit shall be equipped with isolation mounted modular design ROPS/FOPS cab and molded roof
2. Access to the cab shall be from both sides of the machine, with wide, rigid, self-cleaning steps and handles
3. 3" retractable seat belt shall be provided – not 2"
4. Coat hook, built-in beverage holder, and two 12 volt outlets shall be provided
5. Unit shall be equipped with illuminated electronic gauges with audible warning for: engine coolant temperature, transmission oil temperature and fuel level.
6. The monitor system shall have audible and visual warnings: engine air restriction, low alternator voltage, engine oil pressure and temperature, hydraulic filter restriction, parking brake on/off, after treatment temperature, transmission oil temperature, fuel, hour meter and low brake pressure. The seat belt will have a digital warning.
7. Machine will be equipped with a Sealed Switch Module for easy location of controls on the right hand console and increased durability
8. There shall be a digital monitor for diagnostics (including diagnostic messages and fault code readings), calibrations and machine information.
9. Machine shall be enabled with Machine Security, enabled through the monitor.
10. Unit shall have digital display for: engine rpm, engine hours, system voltage.
11. The machine will have a cab air conditioner available from the factory.
12. Machine will have lockable storage inside of the cab
13. The seat shall be suspension vinyl swivel, with fully adjustable armrests and lumbar support. A cloth suspension seat option if available shall be offered,
14. The machine shall have one internal mirror and two external mounted mirrors (one either side)

Preferred Technical Specifications
G. GENERAL SPECIFICATIONS
1. Vandal protection shall cover the instrument panel. Engine hood, toolbox, hydraulic reservoir, and fuel filler shall be lockable.
2. The hood should tilt forward for ease of service operations
3. An easy to read periodic maintenance and grease chart shall be posted at eye level prominently displayed on the frame.
4. Fuel tank capacity shall be sufficient to meet operational requirements and shall be accessible from the ground. Please state capacity in litres
5. Operating weight with full fuel tank, standard equipment including ROPS cab, 4N1 bucket, extend hoe with 24" bucket, including counter weight, shall be stated in kgs. Excessive weight causes excess wear on transport and towing vehicles and can cause problems in soft ground conditions.
6. Fluid levels should be easily checked by sight gauges, dipsticks or overflow tank
7. Factory installed fluid sampling valves will be available from the factory
8. The machine shall be supplied with a Groeneveld auto grease unit system to all grease points – provide separate pricing
9. Unit shall have four built-in vehicle tiedowns, two in front and two in rear for safe transport between jobs
10. The side plate thickness on the loader boom, backhoe boom and mainframe shall be 4.5 mm or greater
11. Machine shall be equipped with an exterior mounted, ground level accessed and lockable storage compartment
12. Optional, replaceable, bolt-on rubber bumpers will be available to protect the grille frame for severe loading applications – please include cost
13. The machine shall be supplied with Nokian TRI 2 tires in all positions
H. BACKHOE
1. The backhoe with extendable dipper arm (retracted) shall have a digging depth of approximately 4.85 m
2. SAE digging depth with extendable dipper stick extended shall be no less than (6.1 m)
3. Extendible dipper stick shall extend no less than 1.22 m
4. Lift capacity at ground level with standard dipper stick shall be no less than 1800 kg
5. The lift capacity at full height with standard dipper stick shall be no less than 1850 kg
6. There shall be a swing lock pin
7. The stabilizers will be equipped with anti-drift in both directions
8. The stabilizer shall have reversible pads
9. The backhoe boom design shall be a power curve for loading into the center of the truck bed.
10. The backhoe boom shall be an hourglass shape for maximum strength and optimized visibility to the work tool.
11. Digging force with standard backhoe, bucket cylinder shall be at least 15,000 lb
12. The backhoe shall be equipped with a rubber bumper/linkage style boom locks to keep the backhoe from vibrating on the swing frame
13. Unit shall be equipped with two lever mechanical (ISO) backhoe controls.

Preferred Technical Specifications
14. The machine will be available with factory installed pilot backhoe controls with pattern-selection feature
15. The swing casting shall have dual yokes: on top and on the bottom
16. Machine to be supplied with, 1- 42" clean up bucket, 1 – 24" digging bucket, c/w bolt cutting edge
17. All buckets shall be hard surface welded
18. Buckets to come with provision for "Pin Grabber" quick coupler
19. The machine shall be supplied with hydraulically operated "Pin Grabber" quick coupler
20. The "Pin Grabber" shall have rated lifting hook with safety latch (G80 or similar) rated not less than the lifting capacity of the machine fixed to the pin grabber
I. LOADER
1. Lift Capacity with 1.0 m ³ bucket at full height shall be at least 3500 kg
2. Dump Clearance with bucket at 45 deg. shall be no less than 2.7 m
3. Bucket breakout force shall be no less than 11,000 lbs
4. The loader shall have hydraulic self-leveling and bucket-level indicator.
5. The loader shall have divergent loader arms for excellent visibility to the bucket
6. A single lever with integrated proportional electrohydraulic control of auxiliary loader operation shall be available from the factory when machine is equipped with auxiliary hydraulics. Lever is also equipped with clutch disconnect, momentary MFWD and MFWD on/off.
7. The loader shall have a non-removable, hinged loader boom service lock.
8. The 4N1 bucket shall have bolt on cutting edges on the three edges that engage with the ground
9. Bucket shall be hard surface welded
10. The bucket shall have three - 3 ton weld on lifting hooks with safety latches (G80) evenly spread on the top edge of the bucket
J. WARRANTY
1. Contractor to provide details on standard warranty coverage
2. Proponent to provide details and cost of extended machine warranty, including engine and emission systems
K. SAFETY
1. Machine shall be supplied with, <ul style="list-style-type: none"> • 1- 2 lb fire extinguisher, • 1 – No. 1 first aid kit, • audible back up alarm 98 dbh, • Orange LED strobe light wired with its own switch and power supply, and slow moving vehicle triangle

Preferred Technical Specifications

L. MOTOR VEHICLE REGULATIONS

1. Backhoe must comply with government regulations and requirements which allow it to operate on roads and highways.
 - Federal Government Motor Vehicle Standards
 - BC Motor Vehicle Act and Regulations
 - BC Workers' Compensation Board Regulations
 - BC Emissions Standards

M. MISCELLANEOUS

1. 3 full sets of keys shall be provided
2. Manufacturer's Certificate of Origin shall be provided
3. The Contractor shall deliver the vehicles, registered, insured, and plated as per the City's insurance requirements through the City's insurance broker.
4. One complete Service Manual shall be provided
5. One complete Parts Manual shall be provided
6. A complete parts list shall be provided for, belts, filters, and hoses
7. Fluid capacities in litres, and oil types (specifications)



SCHEDULE B – FORM OF QUOTATION

RFQ Title: Supply and Delivery of Two (More or Less) Backhoes

RFQ No.: 1220-040-2021-000

CONTRACTOR

Legal Name: _____

Contact Person and Title: _____

Business Address: _____

Business Telephone: _____

Business Fax: _____

Business E-Mail Address: _____

TO:

CITY OF SURREY

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

Email: purchasing@surrey.ca

1. If this offer is accepted by the City, such offer and acceptance will create a contract as described in:
 - (a) the RFQ;
 - (b) the specifications of Goods set out above and in Schedule A;
 - (c) the General Terms and Conditions; and
 - (d) this Quotation; and
 - (e) other terms, if any, that are agreed to by the parties in writing.

2. Capitalized terms used and not defined in this Quotation will have the meanings given to them in the RFQ. Except as specifically modified by this Quotation, all terms, conditions, representations, warranties and covenants as set out in the RFQ will remain in full force and effect.

3. I/We have reviewed the RFQ Attachment 1 – Quotation Agreement - Goods. If requested by the City, I/we would be prepared to enter into that Agreement, amended by the following departures (list, if any):

Section

Requested Departure(s) / Alternative(s)

Please State Reason For Departure(s):

Changes and Additions to Specifications:

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

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

Section

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

Please State Reason For Departure(s):

Fees and Payments

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

Year, Make & Model: _____

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

F.O.B. Destination		Payment Terms: A cash discount of ____% will be allowed if invoices are paid within ____ days, or the ____ day of the month following, or net 30 days, on a best effort basis.			Ship Via: Freight Prepaid	
Item	Item Name (Description and Specifications)	Quantity	UOM	Unit Price (CDN \$)	Total Amount	
1.	Rubber Tired 4WD Backhoe/Loader	2	EA	\$	\$	
2	Auto Grease Unit			\$	\$	
CURRENCY: All Pricing in Canadian Dollars				Subtotal:		\$
				Price Discount for Quantity 2:		- \$
				GST (5%):		\$
				PST (7%):		\$
				Total Price:		\$
<i>Pricing is firm until (state date):</i>						

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

Manufacturer's Warranty: State Warranty _____

Warranty repairs shall be performed at _____

Please complete if applicable: British Columbia Certified

7. Please provide details and costs of available options available for this unit (add additional pages as needed):

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

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

This Quotation is offered by the Contractor this _____ day of _____, 2021.

CONTRACTOR

I/We have the authority to bind the Contractor:

(Full Legal Name of Contractor)

(Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory)

SCHEDULE B-1 – PREFERRED TECHNICAL SPECIFICATIONS RESPONSE FORM

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

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

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

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
A. ENGINE			
1. Four cylinder, turbocharged, isolation mounted diesel engine	Y	N	
2. Engine shall be certified to EPA Tier 4 final emissions or better	Y	N	
3. Engine shall have a individually replaceable, wet-sleeve cylinder liner design	Y	N	
4. Engine displacement shall be no less than 4.5 liters	Y	N	
5. Engine rated net peak power (ISO9249) shall be no less than (80 kW) @ 2000 rpm	Y	N	
6. Engine shall develop at least 317 lb-ft (430 Nm) net torque at 1400 rpm	Y	N	
7. Daily check points shall be accessible from the right side of the engine and shall be done from ground level	Y	N	
8. Engine shall have a serpentine belt with automatic belt tensioner	Y	N	
9. Under-hood engine air cleaner shall be dry type, dual element with evacuator valve, restriction sensor and in-cab restriction warning light	Y	N	
10. The backhoe shall have an underhood after treatment device which is not required to be regen'd (preferred no DPF) with curved-end black (not chrome) exhaust stack	Y	N	
11. The backhoe shall have a tilt hood for easy engine access	Y	N	
12. Primary fuel filter shall have no more than 30-micron rated primary filter with water separator	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
13. Secondary fuel filter shall have no more than a 5-micron rated filter	Y	N	
14. Engine will be equipped with a water-in-fuel sensor			
B. COOLING			
1. Engine coolant shall be rated to -40 degrees (-40C)	Y	N	
2. The backhoe shall be equipped with an oil-to-water engine oil cooler	Y	N	
3. Unit shall have a coolant recovery tank provided	Y	N	
4. Unit shall have an electronically-controlled, variable rate suction-type fan with guard for reduced HP draw, reduced fuel consumption and quieter operation	Y	N	
5. Foldout, hinged cooling system will allow for efficient clean out	Y	N	
6. The hydraulic and transmission circuits will be water cooled	Y	N	
C. POWER TRAIN			
1. The transmission shall be power shift with torque converter with maximum road speed of 40km/h; clutch-free; with minimum of four forward speeds & a minimum of three reverse speeds	Y	N	
2. Machines with an option of having an Auto shift Transmission available from the factory will be considered	Y	N	
3. The front axle will be mechanical-front-wheel-drive (MFWD) with traction control limited-slip differential with electric on/off control	Y	N	
4. The clutch engaged MFWD can be engaged on the fly during operation.	Y	N	
5. The machine will disengage MFWD in at road speeds of approximately 20 km/h to allow for longer life of tires and drive train and reduced fuel consumption	Y	N	
6. Machine will automatically engage MFWD when brakes are applied for four wheel braking	Y	N	
7. The axle will be sealed with no breather to protect against contamination			
8. The transmission shall be isolation mounted to the mainframe to minimize shock load stress	Y	N	
9. The rear axle shall have a differential lock, electric actuated as standard equipment	Y	N	
10. The operator can enable a differential lock protection in the monitor, which will not allow the differential lock to be engaged above 1000 rpm to prevent damage to components	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
11. The single electric Transmission Control Lever will have gear selection fully integrated in the lever	Y	N	
12. Transmission oil cooler shall be provided as standard equipment	Y	N	
13. The backhoe shall have hydrostatic power steering with emergency manual mode	Y	N	
14. The machine will have a dial throttle that will allow the operator to road the machine on cruise control. Upon engagement of the brake pedal, the engine RPMs return to idle	Y	N	
15. The final drives shall be heavy-duty outboard planetary distributing loads over four gears sealed in cooling oil bath	Y	N	
16. The front axle shall have remote grease bank for front axle for easy access.	Y	N	
17. The rear axle bearings shall be self-lubricating and shall not need to be greased	Y	N	
18. The service brakes shall be self-adjusting and self-equalizing and hydraulically actuated for a long and trouble-free life, sealed from water, mud and dust contamination	Y	N	
19. The parking brake shall be independent of service brakes, spring applied, hydraulically released, wet multi-disk, and sealed from water, mud and dust contamination.	Y	N	
20. Park brake will automatically apply when engine is shut off	Y	N	
D. HYDRAULIC SYSTEM			
1. The hydraulic fittings shall have "O"-ring face seal connectors to secure a tight, leak-free seal	Y	N	
2. Hydraulic cooler will have an independent reservoir	Y	N	
3. The hydraulic filter shall be no more than 7 micron and will be vertically mounted, spin on design for ease of installation and leak-free replacement.	Y	N	
4. Machine shall be equipped with Auto Idle to lower rpm when hydraulics are not engaged	Y	N	
5. Machine shall be equipped with Economy Mode that can be activated, to provide the maximum productivity and maximum fuel efficiency in 1st & 2nd gears	Y	N	
6. An automatic bucket return-to-dig control will be standard	Y	N	
7. Hydraulic pump shall be an axial piston pump, pressure compensating, load sensing	Y	N	
8. Machine shall be supplied with piping and flat faced hydraulic quick couplers for connecting a hoe pack – hoe back to be easily controlled	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
by the operator along with the hydraulic "Pin Grabber"			
E. ELECTRICAL			
1. The backhoe shall be 12 volts with a minimum 160 amp alternator	Y	N	
2. Single battery, 12 volt, 950 CCA, 190-min. rated reserve	Y	N	
3. The machine shall have blade type, multi-fused circuits	Y	N	
4. The starter shall have a bypass start safety cover	Y	N	
5. Cab will be pre-wired for rotating beacon light and 2 way radio-ready. The beacon shall have its own power supply and be switched.	Y	N	
6. Unit shall be equipped with 10 LED driving/working lights, (4) front driving/working; (4) rear; (2) side docking lights. The front lights shall be adjustable.	Y	N	
7. Unit shall be equipped with a Telematics systems that can provide fleet management, logistics and remote diagnostics capabilities. Provide information and ongoing cost of system	Y	N	
8. Unit shall be equipped with two front and two rear turn signal/flashing and two rear stop and tail lights and two rear reflectors	Y	N	
F. CAB			
1. Unit shall be equipped with isolation mounted modular design ROPS/FOPS cab and molded roof	Y	N	
2. Access to the cab shall be from both sides of the machine, with wide, rigid, self-cleaning steps and handles	Y	N	
3. 3" retractable seat belt shall be provided – not 2"	Y	N	
4. Coat hook, built-in beverage holder, and two 12 volt outlets shall be provided	Y	N	
5. Unit shall be equipped with illuminated electronic gauges with audible warning for: engine coolant temperature, transmission oil temperature and fuel level.	Y	N	
6. The monitor system shall have audible and visual warnings: engine air restriction, low alternator voltage, engine oil pressure and temperature, hydraulic filter restriction, parking brake on/off, after treatment temperature, transmission oil temperature, fuel, hour meter and low brake pressure. The seat belt will have a digital warning.	Y	N	
7. Machine will be equipped with a Sealed Switch Module for easy location of controls on	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
the right hand console and increased durability			
8. There shall be a digital monitor for diagnostics (including diagnostic messages and fault code readings), calibrations and machine information.	Y	N	
9. Machine shall be enabled with Machine Security, enabled through the monitor.	Y	N	
10. Unit shall have digital display for: engine rpm, engine hours, system voltage.	Y	N	
11. The machine will have a cab air conditioner available from the factory.	Y	N	
12. Machine will have lockable storage inside of the cab	Y	N	
13. The seat shall be suspension vinyl swivel, with fully adjustable armrests and lumbar support. A cloth suspension seat option if available shall be offered,	Y	N	
14. The machine shall have one internal mirror and two external mounted mirrors (one either side)	Y	N	
G. GENERAL SPECIFICATIONS			
1. Vandal protection shall cover the instrument panel. Engine hood, toolbox, hydraulic reservoir, and fuel filler shall be lockable.	Y	N	
2. The hood should tilt forward for ease of service operations	Y	N	
3. An easy to read periodic maintenance and grease chart shall be posted at eye level prominently displayed on the frame.	Y	N	
4. Fuel tank capacity shall be sufficient to meet operational requirements and shall be accessible from the ground. Please state capacity in litres	Y	N	
5. Operating weight with full fuel tank, standard equipment including ROPS cab, 4N1 bucket, extend hoe with 24" bucket, including counter weight, shall be stated in kgs. Excessive weight causes excess wear on transport and towing vehicles and can cause problems in soft ground conditions.	Y	N	
6. Fluid levels should be easily checked by sight gauges, dipsticks or overflow tank	Y	N	
7. Factory installed fluid sampling valves will be available from the factory	Y	N	
8. The machine shall be supplied with a Groeneveld auto grease unit system to all grease points – provide separate pricing	Y	N	
9. Unit shall have four built-in vehicle tiedowns, two in front and two in rear for safe transport between jobs	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
10. The side plate thickness on the loader boom, backhoe boom and mainframe shall be 4.5 mm or greater	Y	N	
11. Machine shall be equipped with an exterior mounted, ground level accessed and lockable storage compartment	Y	N	
12. Optional, replaceable, bolt-on rubber bumpers will be available to protect the grille frame for severe loading applications – please include cost	Y	N	
13. The machine shall be supplied with Nokian TRI 2 tires in all positions	Y	N	
H. BACKHOE			
1. The backhoe with extendable dipper arm (retracted) shall have a digging depth of approximately 4.85 m	Y	N	
2. SAE digging depth with extendable dipper stick extended shall be no less than (6.1 m)	Y	N	
3. Extendible dipper stick shall extend no less than 1.22 m	Y	N	
4. Lift capacity at ground level with standard dipper stick shall be no less than 1800 kg	Y	N	
5. The lift capacity at full height with standard dipper stick shall be no less than 1850 kg	Y	N	
6. There shall be a swing lock pin	Y	N	
7. The stabilizers will be equipped with anti-drift in both directions	Y	N	
8. The stabilizer shall have reversible pads	Y	N	
9. The backhoe boom design shall be a power curve for loading into the center of the truck bed.	Y	N	
10. The backhoe boom shall be an hourglass shape for maximum strength and optimized visibility to the work tool.	Y	N	
11. Digging force with standard backhoe, bucket cylinder shall be at least 15,000 lb	Y	N	
12. The backhoe shall be equipped with a rubber bumper/linkage style boom locks to keep the backhoe from vibrating on the swing frame	Y	N	
13. Unit shall be equipped with two lever mechanical (ISO) backhoe controls.	Y	N	
14. The machine will be available with factory installed pilot backhoe controls with pattern-selection feature	Y	N	
15. The swing casting shall have dual yokes: on top and on the bottom	Y	N	
16. Machine to be supplied with, 1- 42" clean up bucket, 1 – 24" digging bucket, c/w bolt cutting edge	Y	N	
17. All buckets shall be hard surface welded	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
18. Buckets to come with provision for "Pin Grabber" quick coupler	Y	N	
19. The machine shall be supplied with hydraulically operated "Pin Grabber" quick coupler	Y	N	
20. The "Pin Grabber" shall have rated lifting hook with safety latch (G80 or similar) rated not less than the lifting capacity of the machine fixed to the pin grabber	Y	N	
I. LOADER			
1. Lift Capacity with 1.0 m ³ bucket at full height shall be at least 3500 kg	Y	N	
2. Dump Clearance with bucket at 45 deg. shall be no less than 2.7 m	Y	N	
3. Bucket breakout force shall be no less than 11,000 lbs	Y	N	
4. The loader shall have hydraulic self-leveling and bucket-level indicator.	Y	N	
5. The loader shall have divergent loader arms for excellent visibility to the bucket	Y	N	
6. A single lever with integrated proportional electrohydraulic control of auxiliary loader operation shall be available from the factory when machine is equipped with auxiliary hydraulics. Lever is also equipped with clutch disconnect, momentary MFWD and MFWD on/off.	Y	N	
7. The loader shall have a non-removable, hinged loader boom service lock.	Y	N	
8. The 4N1 bucket shall have bolt on cutting edges on the three edges that engage with the ground	Y	N	
9. Bucket shall be hard surface welded	Y	N	
10. The bucket shall have three - 3 ton weld on lifting hooks with safety latches (G80) evenly spread on the top edge of the bucket	Y	N	
J. WARRANTY			
1. Contractor to provide details on standard warranty coverage	Y	N	
2. Proponent to provide details and cost of extended machine warranty, including engine and emission systems	Y	N	
K. SAFETY			
1. Machine shall be supplied with, <ul style="list-style-type: none"> • 1- 2 lb fire extinguisher, • 1 – No. 1 first aid kit, • audible back up alarm 98 dbh, • Orange LED strobe light wired with its own switch and power supply, • and slow moving vehicle triangle 	Y	N	

Preferred Specifications	Yes (Circle)	No (Circle)	Manufacturers' Specifications of Equipment Offered. Contractor to indicate compliance or deviation with specifications below.
L. MOTOR VEHICLE REGULATIONS			
1. Backhoe must comply with government regulations and requirements which allow it to operate on roads and highways. <ul style="list-style-type: none"> • Federal Government Motor Vehicle Standards • BC Motor Vehicle Act and Regulations • BC Workers' Compensation Board Regulations • BC Emissions Standards 	Y	N	
M. MISCELLANEOUS			
1. 3 full sets of keys shall be provided	Y	N	
2. Manufacturer's Certificate of Origin shall be provided	Y	N	
3. The Contractor shall deliver the vehicles, registered, insured, and plated as per the City's insurance requirements through the City's insurance broker.	Y	N	
4. One complete Service Manual shall be provided	Y	N	
5. One complete Parts Manual shall be provided	Y	N	
6. A complete parts list shall be provided for, belts, filters, and hoses	Y	N	
7. Fluid capacities in litres, and oil types (specifications)	Y	N	