

City of Coquitlam

Request for Proposals  
RFP No. 19-01-17

Supply and Delivery of  
Two (2) Four Wheel Drive Backhoes

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**PROPOSAL SUBMISSION FORM**

**APPENDIX A – PREFERRED SPECIFICATIONS – FOUR WHEEL BACKHOE**

**SUMMARY OF KEY INFORMATION**

<b>RFP Reference</b>	<b>RFP No. 19-01-17</b> <b>Two (2) Four Wheel Drive Backhoes</b>
<b>Overview of the Opportunity</b>	The purpose of this RFP is to invite proposals from qualified firms for the supply and delivery of <b>Two (2) Four Wheel Drive Backhoes</b> as specified within this RFP document.
<b>Closing Date and Time</b>	<b>2:00 pm local time</b> <b>Wednesday April 10, 2019</b>
<b>Instructions for Proposal Submission</b>	<p>Proposals are to be consolidated into one PDF file and uploaded electronically through Qfile, the City’s file transfer service accessed at <a href="http://qfile.coquitlam.ca/bid">qfile.coquitlam.ca/bid</a></p> <ol style="list-style-type: none"> <li>1. <b>In the “Subject Field” enter:</b> RFP Number and Name</li> <li>2. <b>Add files in .pdf format and Send</b> (Ensure your web browser remains open until you receive 2 emails from Qfile to confirm receipt.)</li> </ol> <p>Phone 604-927-3060 should assistance be required.</p> <p>The City reserves the right to accept proposals received after the Closing Date and Time.</p>
<b>Obtaining RFP Documents</b>	<p>RFP Documents are available for download from the City of Coquitlam’s website: <a href="http://www.coquitlam.ca/BidOpportunities">www.coquitlam.ca/BidOpportunities</a></p> <p>Printing of RFP documents is the sole responsibility of the Proponents.</p>
<b>Instructions to Proponents</b>	The guidelines for participation that will apply to this RFP are posted on the City’s website: <a href="#">Instructions to Proponents</a>
<b>Questions</b>	Questions are to be submitted in writing quoting the RFP number and name up to 3 business days before the closing date sent to email: <a href="mailto:bid@coquitlam.ca">bid@coquitlam.ca</a>
<b>Addenda</b>	Proponents are required to check the City’s website for any updated information and addenda issued, before the Closing Date at the following website: <a href="http://www.coquitlam.ca/BidOpportunities">www.coquitlam.ca/BidOpportunities</a>
<b>Withdrawal of Submission</b>	Proposals may be withdrawn by written notice only, made by an authorized representative of the Proponent sent to email: <a href="mailto:bid@coquitlam.ca">bid@coquitlam.ca</a> prior to the Closing Date and Time.
<b>Terms and Conditions of Contract</b>	<a href="#">City of Coquitlam Terms and Conditions of Purchase</a> are posted on the City’s website and will apply to the contract awarded as a result of this RFP.

## DEFINITIONS

**“CMVSS”** means Canadian Motor Vehicle Safety Standards

**“Contract”** means the City Purchase Order that will be issued to formalize the Contract with the successful Proponent through negotiation process with the City based on the Proposal submitted and will incorporate by reference the Request for Proposals, the Terms and Conditions of Contract included in this RFP, any additional subsequent information, any addenda issued, the Proponent’s response and acceptance by the City.

**“City” “Owner”** means City of Coquitlam.

**“Price”** means the amount that will be paid by the City to the Supplier for delivery and acceptance of goods and Services.

**“Proponent”** means responder to this Request for Proposals.

**“Proposal”** means the submission by the Proponent.

**“Request for Proposals” “RFP”** shall mean and include the complete set of documents, specifications and addenda incorporated herein, and included in this Request for Proposals.

**“Services”** means and includes the provision by the successful Proponent of all Services, duties, and expectations as further described in this RFP.

**“Shall” “Must” “Will” “Mandatory”** means a requirement that must be met.

**“Supplier”** means the successful Proponent awarded the Contract for supply of vehicles, equipment and Services described in this RFP. The Supplier agrees to carry out all duties, obligations, work and Services outlined in this RFP, and include all associated documentation, addenda, and mutually agreed revisions subsequent to submission of a Proposal. “Supplier” and “Proponent” are complementary in terms of duties, obligations and responsibilities requested at the RFP stage through to provision of goods and Services.

## 1. INSTRUCTIONS TO PROPONENTS

### 1.1. Purpose

The purpose of this RFP is to invite proposals from qualified, experienced companies for the supply and delivery of **Two (2) Four Wheel Drive Backhoes** as stated within this RFP.

The City is seeking to identify and select qualified Suppliers that have the knowledge, technical resources, experience, reputation and capacity to supply, deliver and provide continuous support for the equipment.

### 1.2. Instructions to Proponents

Proponents are advised that the rules for participation that will apply to this RFP are located: [Instructions to Proponents](#).

By submission of a proposal in response to this RFP, the Proponent agrees and accepts the rules by which the bid process will be conducted.

Proponents should complete and submit the information requested in this RFP document on the **Proposal Submission Form** and **Appendix A – Preferred Specifications** or in a format that has been approved and is acceptable to the City.

### 1.3. Specifications and Alternatives

Wherever the Specifications state a brand name, make, name of manufacturer, trade name, or Supplier 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 or equipment other than that specified is offered, it is the Proponent's responsibility to provide information in its Proposal that enables the City to confirm equivalency and acceptance.

Except where stated otherwise, **Appendix A – Preferred Specifications**, describe what is considered necessary to meet the performance requirements of the City and Proponents should consider this in its Proposal. If the Proponent cannot meet Specifications, the Proponent may identify and offer an alternative which it believes to be an equal or better alternative.

Special consideration may be given to accessibility of the various units which require periodic maintenance and ease of operation.

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

Proponents may also propose alternative equipment which meets the majority of the specifications if it is immediately available for delivery. The City will review proposed alternative equipment for suitability in order to take delivery sooner; however the City is not obligated to accept any alternatives. The City will determine what constitutes acceptable deviations and overall best value.

Proponents are to provide environmentally efficient equipment and services wherever possible. If there are known alternatives or substitutions for such materials that would

mitigate the effects of any adverse conditions on the environment, the Proponent agrees to advise the City of such alternatives or substitutions.

1.4. Warranties

The Proponent shall provide a full statement of the warranty period and terms, including extended warranty options, for items listed in **Appendix A – Preferred Specifications**, as a minimum. This warranty should clearly describe the terms under which the equipment manufacturer or sub-suppliers of the manufacturer accept responsibility for the cost to repair defects caused by faulty design, quality of work or material and for the applicable period of time after delivery.

1.5. Optional Trade-in Equipment

The City offers the following equipment for trade-in consideration:

Coquitlam Unit No.	VIN #	Year	Hours	Description
E3007	T0310TJCA0180672	2010	6274	John Deere 310SJ
E3014	1T0310TJAA0189866	2010	5015	John Deere 310TJ

1.6. Evaluation Criteria

The criteria for evaluation of the Proposals may include, but is not limited to:

**Corporate Experience, Reputation, Capacity and Resources – 30 points**

- Business and technical reputation and capabilities; experience, financial stability, capacity and resources
- Industry references (on time delivery, support, performance, etc.)

**Technical – 40 points**

- Delivery Lead Time
- Compliance with the preferred specifications
- Warranties
- Local support and parts availability in Metro Vancouver area
- Training
- Mechanical/Fabrication assessment & Operator/Ergonomic assessment
- Demonstration Unit

**Financial and Value Added – 30 points**

- Financial offer including, but not limited to, prices, operating and maintenance costs, warranty, and any life cycle considerations
- Value Added / Sustainable benefits

These criteria will be used to determine best overall value to the City. Proposals will be compared to select one or more that are most advantageous.

And, upon selection of one or more lead Proponent(s):

- References may be contacted
- Interviews may be conducted

The criteria listed above will be used to determine best overall value to the City. Proposals will be compared to select one or more that are most advantageous.

The City reserves the right to check references even if they are not specifically listed. Information obtained from references will be confidential and will not be disclosed to any Proponents.

The City may, at its discretion, request clarification or additional information from a Proponent with respect to any Proposal and the City may make such requests to only selected Proponents. The City may consider such clarifications or additional information in evaluating a proposal.

Proponents agree the City may disclose names of Proponents and total award amount, however, unevaluated results, unit prices, rates or scores will not be provided to any Proponents.

Incomplete Proposals or Proposals submitted on forms other than the Proposal Form may be rejected.

The City reserves the right to reject without further consideration any Proposal which in its opinion does not meet the criteria it considers essential for the work outlined in this RFP.

#### 1.7. Prices

Prices shall be all-inclusive and stated in (Canadian Funds). Prices shall remain FIRM for the delivery of equipment and completion of the Services.

Supply and delivery of materials is to be included in the price, FOB, Freight Prepaid to:

**City of Coquitlam  
Works Yard West  
500 Mariner Way  
Coquitlam, BC, V3K 7B6**

Prices shall include the provision of all tools, materials, equipment, labour, transportation, fuel, supervision, management, overhead, materials, traffic control, services, all necessary packing and crating (where applicable), Canadian Customs import and export duties, freight, handling, transportation, insurance, all other associated or related charges, foreign, federal, provincial and municipal taxes, bonding costs, all licences, permits, inspections and all other requirements necessary for the commencement, performance and completion of Services as described.

Taxes are to be shown separately at time of invoicing.

The lowest price of any Proposal will not necessarily be accepted but will be analyzed to determine best overall value.

1.8. Fleet Standard Model and Preferred Dealer

At the City's sole discretion, the results of this RFP may also be used to establish a **City Fleet Standard Model and a Preferred Dealer** for purchase of additional units should the City require additional similar equipment for the next five (5) years.

The City's decision to direct award to the successful proponent would be subject to mutual acceptance of price and availability.

Alternatively, the City may issue a new RFP for additional equipment.

1.9. Acceptance of Proposals

Proposal responses or notations which provides for a condition of sale or any other attachment which alters the conditions or specifications, or makes it subordinate, may be cause for rejection, at the option of the City.

The City reserves the right to waive formalities in, accept or reject any or all Proposals, cancel this RFP, or accept the Proposal deemed most favourable in the interest of the City. The lowest Proposal may not necessarily be accepted, rather will be analyzed to determine best overall value to the City.

The City reserves the right to cancel this RFP at any time without recourse by the Proponent. The City has the right to not award this work for any reason including choosing to complete the work with the City's own forces.

No alterations, amendments or additional information will be accepted after the Closing Date and Time unless invited by the City.

Should a Proposal be accepted, a purchase order will be issued for the provision of these services. Contract documents will be utilized to document the agreement fully and completely.

1.10. Negotiation

The City reserves the right, prior to contract award, to negotiate changes to the scope of the services or to the contract documents (including pricing to meet budget) with the highest ranked Proponent and then consecutively, any one or more Proponents, proposing the "best value" without having any duty to advise any other Proponent or to allow them to vary their Proposal as a result of changes to the scope of the services or to the contract documents; and the City may enter into a changed or different contract with the proponent(s) proposing the "best value", without liability to Proponents who are not awarded the Contract.

1.11. Extension of Offer

The successful Proponent agrees to allow other local public agencies with similar needs within British Columbia to participate in this contract.

Additional participating agencies may opt to enter into a contract with the successful Proponent for the purchase of the vehicles, equipment and services described in this RFP based on the terms, conditions, prices and percentages offered by the successful Proponent to the City with possible minor changes negotiated.

This is intended to be a means of promoting cooperative purchasing efforts with the public sector, and to provide additional value to the successful Proponent.

## 2. GENERAL CONDITIONS OF CONTRACT

### 2.1. Terms and Conditions of Contract

Award will be confirmed by issue of a City Purchase Order (“PO”) incorporating the information contained in this RFP.

The City’s [Terms and Conditions of Purchase](#) will apply to this Contract as a result of this RFP and are published on the City’s website. The City’s [Terms and Conditions of Purchase](#), the accepted Proposal, addenda and any subsequent clarifications, correspondence, the totality of which will constitute the Contract.

### 3. SCOPE OF SERVICES

#### 3.1. General Requirements

The Supplier is to provide **Two (2) Four Wheel Drive Backhoes** to be used in a municipal environment as specified in **Appendix A – Preferred Specifications**.

The unit is to be the current production model with all the latest updates including, where requested, all manuals, instructions, training and requested spare parts.

The Services include, but are not limited to:

- Supply and Delivery of the equipment proposed;
- Provide local (Metro Vancouver) dealer warranty service; and
- Provide post-delivery services and parts availability at a local dealer area.

#### 3.2. Quality and Workmanship

The quality and workmanship of the completed delivered product must meet or exceed that of any sample, demo unit, or any other representation made by the Supplier prior to delivery.

Vehicles and equipment shall comply with all applicable legislated and regulatory standards. All welding shall meet American Welding Society or Canadian Welding Bureau current standards.

#### 3.3. Environmental Considerations

Equipment offered is to be environmentally friendly, including but not limited to the manufacturing process, materials, oils, lubricants, paints and other fluid materials, wherever possible.

#### 3.4. Pre-delivery Services

The equipment shall be delivered clean and shall be complete with all equipment required for the equipment to be operable. The delivered equipment will be inspected for compliance with the approved Purchase Order and current standards.

#### 3.5. Pre-delivery Inspection

A road performance test and general operation inspection must be performed prior to delivery.

#### 3.6. Delivery

Delivery is to be made with **minimum 48 hours' notice**, at a scheduled time that is mutually acceptable to the City, freight prepaid F.O.B to:

**City of Coquitlam – Works Yard West**  
**500 Mariner Way**  
**Coquitlam, BC, V3K 7B6**

An authorized representative of the Supplier shall supervise delivery to the City.

3.7. Documentation at Time of Delivery

The Supplier is to provide the following documentation upon delivery with each piece of equipment:

Quantity	Description
4 sets	<b>KEYS</b> - All keys (four full sets), a complete parts list, and service manuals are to be delivered with the vehicle
1	Manufacturer's <b>Certificate of Origin</b>
1	<b>Warranty</b> document and certifications
1 set	One complete <b>Service Manual</b> to cover, but not limited to, tires, engine, batteries, transmission, axles, electrical components to cover each piece of equipment proposed
1 set	One <b>Parts Manual</b> covering the entire piece of equipment proposed
1 set	One set of <b>As-built Electrical Wiring Schematics</b> to cover any and all wiring not installed by chassis manufacturer. This diagram to include part numbers and brand names of switches, lights, etc. of parts used
1 list	Complete <b>PARTS LIST</b> of all belts, hoses, and filters; including part numbers, manufacturer and use
1 list	All <b>Fluid Capacities</b> in litres.

3.8. Warranties

The Supplier agrees to repair or replace any faulty equipment and that any defects discovered and failures which occur during the guarantee period will be rectified to the satisfaction of the City within a reasonable amount of time at no cost to the City.

3.9. Recall Notices

In the event of any recall notice, technical service bulletin, or other important notification affecting a unit purchased under this Contract, a notice shall be sent to the City. It shall be the responsibility of the Supplier to assure that all recall notices are sent directly to the City Fleet department.



City of Coquitlam  
**REQUEST FOR PROPOSALS**  
**RFP No. 19-01-17**

Supply and Delivery of  
**Two (2) Four Wheel Drive Backhoes**

Proposals will be received on or before 2:00 pm local time on  
**Wednesday April 10, 2019**  
(Closing Date and Time)

**INSTRUCTIONS FOR PROPOSAL SUBMISSION**

Proposal submissions are to be consolidated into one PDF file and uploaded through QFile, the City's file transfer service accessed at website: [qfile.coquitlam.ca/bid](http://qfile.coquitlam.ca/bid)

- 1. In the "Subject Field" enter:** RFP Number and Name
- 2. Add files in .pdf format and "Send"**  
(Ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete.)

Proponents are responsible to allow ample time to complete the Proposal Submission process. If assistance is required phone 604-927-3060 or fax 604-927-3035.

**Proposal Submission Form**

Complete and return this section with:  
**Appendix A – Preferred Specifications**

**Submitted by:**

\_\_\_\_\_ (company name)

**1. PRICE**

1.1 Supply and Delivery of Two (2) Four Wheel Drive Backhoes

In accordance with **Appendix A – Preferred Specifications:**

Four Wheel Drive Backhoe - Manufacturer and Model:		State:		
	Item	Quantity	Unit Price (exclude PST & GST)	Extended Price (exclude PST & GST)
a)	Four Wheel Drive Backhoe	2	\$	
b)	Levies (per unit):	2	\$	
c)	Environmental Tax (per unit):	2	\$	
Sub-Total			\$	
PST			\$	
GST			\$	
TOTAL PRICE			\$	

The Price must include all required decals, paint and any features required to be compliant with all regulations and standards and be fully operational.

1.2 Optional Unit for Trade-in

Coquitlam Unit No.	VIN #	Description	Trade In Offered
E3007	T0310TJCA0180672	2010 - John Deere 310SJ	\$
E3014	1T0310TJAA0189866	2010 - John Deere 310TJ	\$

**2. DEMONSTRATION UNITS**

Availability, location and notification required to arrange for a demonstration and testing of the following equipment as proposed:  <b>**The City may choose to use the demo vehicle in the field for one day**</b>	<b>Four Wheel Drive Backhoe:</b>
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**3. LEAD TIME FOR DELIVERY**

The lead time for delivery of the new unit is an important consideration in this purchase. The Proponent guarantees to deliver the vehicle(s) F.O.B. (freight pre-paid) to:

**City of Coquitlam, Works Yard West, 500 Mariner Way, Coquitlam, BC.**

Backhoe	
Lead time in days for manufacture and delivery once the final specification is approved by the City:	

**4. WARRANTIES AND EXTENDED WARRANTIES**

Attach Warranty information including extended warranties. Any additional cost is to be stated:

Description	Price per Unit
Manufacturer Warranty	Included
Extended Bumper to Bumper Warranty <b>State term:</b>	\$
Other available Warranty <b>Options:</b>	\$

**5. QUALITY ASSURANCE**

Quality Assurance Information	
<b>Quality Assurance</b> – Provide information on the systems of Quality Control and build specification assurance.	

**6. VALUED ADDED SERVICES**

**Preferred Dealer Services** - Provide information on what makes your firm innovative, what is your competitive advantage, what other Services, or leading edge engineering/technology your firm provides that would assist or would be of benefit to the City if your company is selected:

**7. KEY FACILITY LOCATIONS**

7.1. Manufacturing Plant

<b>Business Name and Location:</b>	
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7.2. Warranty and Repair Service Center

State location of nearest affiliate service facilities with factory authorized technicians located in Metro Vancouver area:

<b>Business Name and Location:</b>	
State the procedure for handling warranty claims:	

7.3. MRO Parts Distribution Center

<b>Business Name and Location:</b>	
Regular Lead Time for Delivery of <u>Stocked Parts</u> :	
Provide a list and details of stocked parts available at the local dealership for the equipment proposed (attach additional information if necessary):	
Location for non-stocked parts:	
Regular Lead Time of <u>Non-Stocked Parts</u> :	

**8. TRAINING AND MANUALS**

8.1. Training

Describe types of training that will be provided by Proponent’s professional Technicians:

a)	<b>Operators</b> – state duration of training, number of attendees and number of on-site workshops at Coquitlam Works Yard:	
b)	<b>Fleet and Maintenance</b> – state duration of training, number of attendees, number of workshops and Location	

8.2. Manuals

a)	<p><b>Manuals</b> (online/web based/DVD/paper manuals) included:</p> <ul style="list-style-type: none"> <li>• 2 parts manuals</li> <li>• 2 service manuals</li> <li>• 2 Operator’s manuals</li> <li>• Wiring schematics</li> </ul>	<p>State Format available:</p>
b)	<p><b>Training Materials:</b>  Access to online/web based or DVD training, 1 for Operators and 1 for Mechanics</p>	<p>Confirm:</p> <p>State format available:</p>

9. **SUSTAINABLE BENEFITS AND SOCIAL RESPONSIBILITY**

9.1. Sustainable Benefits

Describe all initiatives, policies, programs and product choices that illustrate your firm’s efforts towards sustainable practises and environment responsibility in providing the services that would benefit the City:

9.2. Social Responsibility

a) What policies does your organization have for hiring apprentices, indigenous peoples, recent immigrants, veterans, young people, women, and people with disabilities:

b) What policies does your organization have for the procurement of goods and services from local small and medium sized business or social enterprises:

**10. REFERENCES**

Provide current references that the City may contact to verify successful performance of the proposed equipment.

<b>Vehicle Description</b>	
<b>Approximate Value</b>	
<b>Owner</b>	
<b>Reference Contact</b>	
<b>Telephone and Email</b>	

<b>Vehicle Description</b>	
<b>Approximate Value</b>	
<b>Owner</b>	
<b>Reference Contact</b>	
<b>Telephone and Email</b>	

<b>Vehicle Description</b>	
<b>Approximate Value</b>	
<b>Owner</b>	
<b>Reference Contact</b>	
<b>Telephone and Email</b>	

**11. ADDENDA**

We acknowledge the receipt of the following Addenda related to this Request for Proposal and have incorporated the information received in preparing this Proposal:

<b>Addendum No.</b>

**12. AUTHORIZATION**

We hereby submit our Proposal for the supply and services as specified and undertake to carry out the work in accordance with all Regulations and Codes, applicable to this RFP.

We agree to the rules of participation outlined in the [Instructions to Proponents](#) and should our proposal be selected, will accept the City’s contract: [Terms and Conditions of Purchase](#)

The signature is an authorized person of the organization and declares the statements made in their submission are true and accurate.

For the purpose of this RFP submission, electronic signatures will be accepted.

<b>Company Name:</b>	
<b>Address:</b>	
<b>Phone:</b>	
<b>GST Registration No.:</b>	
<b>Project Contact:</b> Name and Title of Individual <i>for communication related to this RFP</i> (please print)	
<b>Contact Email:</b>	
<b>Name &amp; Title of Authorized Signatory:</b> (please print)	
	<b>Signature:</b>
<b>Date:</b>	

**APPENDIX A – PREFERRED SPECIFICATIONS – FOUR WHEEL DRIVE BACKHOE**

<b>4WD Backhoe - 15'10", 115HP complete with tool carrier, 4 in 1 front bucket, extend-a-hoe, clean up bucket and digging bucket with hydraulic thumb</b>			
<b>Item #</b>	<b>Description</b>	<b>Meets Preferred Requirement YES/NO</b>	<b>Explain all Deviations</b>
<b>1. Equipment Overall</b>			
a)	<b>State Manufacturer:</b>		
b)	<b>State Model:</b>		
c)	One piece unitized construction main frame		
d)	1,250 lb. front counterweight		
e)	Michelin 500/70 R24 XMCL rear tires		
f)	Michelin 340/80 R18 XMCL front tires		
g)	Front tires shall ride inside loader bucket cutting width		
h)	Remote grease bank for front axle		
i)	Hinged front mount coolers accessible for easy cleaning		
j)	Vandal protection for engine access doors, instrument panel, fuel tank, and hydraulic tank		
k)	Approx. 40 gallon fuel tank		
l)	Reverse warning alarm switchable to 97 D.B.A. or 111 D.B.A.		
m)	Electric starting aid		
n)	Machine shall have slow moving vehicle triangle at rear of machine		
o)	External lockable toolbox		
<b>2. Equipment Dimensions</b>			
a)	Overall transport length		
b)	Overall transport width		
c)	Overall width (with stabilizers down)		
d)	Overall height		
e)	Overall operating weight		
f)	Ground clearance		

Item #	Description	Meets Preferred Requirement YES/NO	Explain all Deviations
<b>3. Engine</b>			
a)	115 HP SAE approximately		
b)	EPA Final Tier 4 electronic engine		
c)	Turbocharged		
d)	Engine Coolant to -40°C		
e)	Serpentine drive belt with automatic tensioner		
f)	Coolant recovery tank with low level indicator		
g)	Wet Sleeved Engine		
h)	Fan Guard		
i)	Engine Oil Cooler		
j)	Spin on Fuel Filter with water separator		
k)	Dual dry air cleaner with pre-cleaner and restriction gauge		
l)	<b>Self cleaning exhaust after treatment system</b>		
m)	Machine shall have automatic engine speed control that reduces engine speed when the backhoe is not in use. This is to conserve fuel and lower emissions. Machine shall have auto shut down which turns off the engine after a pre-selected period of inactivity		
n)	1000W Block Heater		
o)	State Engine oil change intervals		
<b>4. Powertrain</b>			
a)	5 speed Power shift transmission, Torque converter with twist grip transmission control lever and neutral safety switch interlock 1st through 5th gears		
b)	Electric clutch cut-off on loader level		
c)	Vertical spin-on transmission filter		
d)	Planetary final drive		
e)	Differential lock		
f)	Four wheel drive with limited slip differential. Multi plate clutch engagement for on-the-fly mechanical front wheel drive		
g)	Hydrostatic power steering with emergency manual mode		

Item #	Description	Meets Preferred Requirement YES/NO	Explain all Deviations
<b>4. Powertrain (cont'd)</b>			
h)	Power assisted Hydraulic service brakes inboard, wet disc, self-adjusting self-equalizing		
i)	Parking/emergency brake, independent of service brakes spring applied, hydraulically released, wet multi-disc with electronic switch control		
j)	Service breaks shall be completely enclosed and sealed		
k)	Transmission oil cooler		
l)	Unit shall have a high gear speed of no less than 40 kph		
<b>5. Backhoe</b>			
a)	Excavator style curved boom		
b)	Boom and stick shall be weld repairable		
c)	Replaceable pins and bushings		
d)	Extendable dipper stick to 19' 8" digging depth		
e)	Swing locking pin stored in operator station		
f)	Pilot controls to be electronic over hydraulic fingertip controls with horn, auxiliary proportional roller switch control, proportional extendable dipper stick control and auxiliary selective electronically controlled flow control		
g)	Pivoting stabilizers with reversible pads		
h)	Independent isolation mounted stabilizer valve with two direction anti-drift valves		
i)	36" clean up bucket with built in lifting eye and hooks		
j)	24" digging bucket with teeth and built in lifting eye and hooks		
k)	Quick coupler, single pin type, not wedge system		
l)	Hoe pack plumbing to back of cab		
m)	Necessary retaining brackets on boom with rubber grommets for hydraulic hoses when hydraulic compactor in use		
n)	Hydraulic thumb, CWS HX Direct Link-BE080		

Item #	Description	Meets Preferred Requirement YES/NO	Explain all Deviations
<b>6. Backhoe Performance</b>			
With extendable dipper stick retracted:			
a)	Digging force bucket cylinder approximately 15,000 lbs.		
b)	Digging force crowd cylinder approximately 10,000 lbs.		
c)	Swing arc - 180 <sup>0</sup>		
d)	Bucket curl - 190 <sup>0</sup>		
<b>7. Loader</b>			
a)	Single lever control, loader control grip to incorporate clutch disconnect, transmission quick shift, proportional auxiliary roller switch and switch for monetary mechanical front wheel drive switch		
b)	Electronic parallel lift		
c)	Replaceable pins and bushings		
d)	Return to dig feature		
e)	Bucket level indicator		
f)	Loader boom service lock		
g)	Single lever joystick control with roller switches and electronic clutch disconnect switch		
h)	4 in 1 bucket		
i)	92" wide bucket approximately 1.3 cu. yd.		
j)	Bolt on cutting edge		
k)	Full length skid shoes		
l)	Built in lifting eyes and 3 lifting hooks		
<b>8. Loader Performance</b>			
a)	With 4 in 1 - 1.3 cu. Yd. bucket:		
b)	Breakout force approximately 10,500 lbs.		
c)	Lifting capacity, full height approximately 7,000 lbs.		
d)	Dump clearance bucket at 45 <sup>0</sup> approximately 8' 8"		
<b>9. Lights</b>			
a)	Four front driving/working, L.E.D		
b)	Two front and two rear turn signal/flashing		
c)	Two rear working, L.E.D		

Item #	Description	Meets Preferred Requirement YES/NO	Explain all Deviations
<b>9. Lights (cont'd)</b>			
d)	Two rear stop and tail		
e)	Two rear reflectors		
f)	Roof mounted top light (see details in electrical)		
g)	Lighting to conform to CMVSS		
<b>10. Operator Station</b>			
a)	Modular design ROPS cab isolation mounted with molded roof		
b)	Access and egress through both left and right hand doors		
c)	Lockable right side storage		
d)	Slip resistant steps		
e)	Deluxe suspension seat (preferably air ride) with lumbar support and arm rests		
f)	3" fully retractable seat belt		
g)	Electric monitor system, with audible and visual warning for air cleaner restriction, low alternator voltage, engine coolant temperature, engine oil pressure, hydraulic filter restriction indicator, park brake on-off indicator, 4 wheel drive on-off indicator. Economy mode limits engine RPM while operating loader or backhoe operation		
h)	Electric fuel gauge, illuminated		
i)	Electric hour meter, illuminated		
j)	Tachometer		
k)	Keyless start with machine security to be enabled through monitor		
l)	Quiet cab, state DB rating inside cab		
m)	Horn		
n)	Interior rear view mirror		
o)	Outside rear view mirrors		
p)	Rotary dial hand throttle		
q)	Suspended foot throttle		
r)	Built in operators manual storage compartment		
s)	Coat hook		
t)	Molded floor mat		
u)	Headliner		

Item #	Description	Meets Preferred Requirement YES/NO	Explain all Deviations
<b>10. Operator Station (cont'd)</b>			
v)	40,000 BTU heater - air conditioner		
w)	Defroster/pressurizer		
x)	Front wipers with washer/rear wiper		
y)	Tilt steering		
<b>11. Electrical</b>			
a)	12 volt system - maintenance free battery		
b)	120 amp alternator		
c)	Remote jump posts and battery disconnect		
d)	Blade type multi-fused circuits		
e)	Whelan L.E.D. top light # L31 HAF with L360 BGB branch guard to be installed		
<b>12. Hydraulics</b>			
a)	Main pump: pressure compensated load sensing axial piston pump for low idle lifting approx. 42 gpm @ 2,200 RPM. Lift mode hydraulic boost switch for maximum hydraulic pressure and increased lifting and craning capability		
b)	Independent hydraulic reservoir with sight gauge		
c)	10 Micron vertical spin-on filter		
d)	O-ring face seal connectors		
e)	Hydraulic oil cooler		
<b>13. Spare Parts List - to be supplied with each machine</b>			
a)	Complete list of preventative maintenance parts and consumables. • Provide part numbers and product description		
<b>14. Keys - to be supplied with each machine</b>			
a)	Four complete sets of keys are to be supplied at time of delivery <b>for each backhoe.</b>		
<b>15. Emissions</b>			
a)	Provide details of machine emissions		
b)	Provide details of engine warranty for Biodiesel		