



REQUEST FOR PRICING FOR

RUBBER TIRE EXCAVATOR

TOWNSHIP OF ALNWICK/HALDIMAND

Troy A. Gilmour, C.Tech, rcji
Public Works Superintendent
Township of Alnwick/Haldimand
Date: April 2017

1. SPECIFICATION:

Year:

Make:

Model:

Specify:

2. VEHICLE WEIGHT:

2.1 The basic weight of the excavator equipped with excavation bucket shall be minimum 18,000 kg and a maximum of 20,000 kg

Specify kgs:

3. ENGINES:

3.1 The engine shall be diesel, 4 stroke cycle, turbo-charged and after-cooled
Specify:

Yes No

Make: _____

Model: _____

3.2 Engine power shall be 105 KW 143 hp minimum
Specify:

Yes No

3.3 The displacement shall be 6.4 l minimum
Specify:

Yes No

3.4 Backup system for the microprocessor is standard switch is located in the cab
Specify:

Yes No

3.5 Central diagnostic function records systems parameters or faults. Can be read by technicians with portable diagnostic tool for analysis and troubleshooting.
Specify:

Yes No

4. ENGINE EQUIPMENT:

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|------|---|------------------------------|-----------------------------|
| 4.1 | Shall have a Tier 3 A Emission Certified Engine
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.2 | Removable spin on oil filter
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.3 | Spin on fuel filters
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.4 | Air filter-two stage, dry element ejector with restriction
Indicator
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.5 | Air Pre-Cleaner
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.6 | A minimum 24 volt electrical system with a 70 amp alternator
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.7 | Batteries shall be maintenance free 2 x 12 volt-minimum 1050
cold cranking amps
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.8 | Master Switch for disconnecting the batteries
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.9 | Travel speed lock which switches off with brake pedal
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 4.10 | Automatic idling system to reduce engine speed to an
idle when the hydraulic levers are not in use | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

4.11 Block heater to be supplied Yes No
Specify:

4.12 Automatic engine warm up system Yes No
Specify:

4.13 Cold weather starting aid Yes No

5. HYDRAULIC SYSTEM:

5.1 Hydraulic system and components shall be of manufacturer's Yes No
latest design having a minimum of two main hydraulic pumps
Specify:

5.2 Flows and pressures to be controlled by electric and hydraulic Yes No
signals
Specify:

5.3 A manual override to the computer, including a manual Yes No
throttle device shall be included in the event of a controller
failure so that the machine will still move and operate
Specify:

5.4 Machine to be equipped with a self-diagnostic monitoring Yes No
system viewable in operator's cab
Specify:

5.5 Control levers to be low effort design – hydraulic over hydraulic Yes No
Specify:

5.6 Main hydraulic system shall have a flow to run Pro Mac Brush Yes No
Cutter 52 cmp
Specify:

5.7 Adjustable attachment hydraulic flow and pressure from cab
Specify: Yes No

5.8 Hydraulic system will have a momentary boost pressure device
capable of operating the machine at a higher pressure for a
short duration
Specify: Yes No

5.9 Load holding valves to keep the boom from drifting while in
operation
Specify: Yes No

5.10 Hydraulic system will have fluid regeneration to prevent
cylinder cavitations and provide priority to other movements
Specify: Yes No

5.11 A suction filter screening 80 mesh and return filters of
10 micron with a flow capacity of 500 L per minute minimum
Specify: Yes No

5.12 Oil cooler must be movable to facilitate easy cleaning of the
engine radiator
Specify: Yes No

5.13 An automatic swing holding brake and anti-rebound valve
shall be included
Specify: Yes No

5.14 Maintenance free gear mechanism swing
Specify: Yes No

6. CAB:

6.1 Cab to meet the ROPS requirements according to ISO-3499
Specify: Yes No

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- | | | | |
|------|--|------------------------------|-----------------------------|
| 6.2 | Cab shall be easily accessible with a wide door and lined with Sound absorbing material
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.3 | Grab handles and large step to be supplied
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.4 | Safety screens for front window to be supplied
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.5 | Front window to slide up into the ceiling and lower front glass to be removable
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.6 | Integrated air conditioning and heating system with a 4-speed fan and cab fresh air filter
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.7 | Window defroster
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.8 | Sound level to be maximum of 75 DBA with door and windows closed
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.9 | Heated deluxe adjustable suspension seat with seat belt and adjustable arm rests
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.10 | AM/FM Radio with a cut off switch
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.11 | All doors and housing to be lockable
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

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|------|---|------------------------------|-----------------------------|
| 6.12 | Mirrors – minimum of two outside and one in cab
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.13 | Equipped with motion alarm with a cancel switch
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.14 | Windshield wiper to be intermittent
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.15 | Front windshield wiper with washer in the blade delivery system
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.16 | Hydraulic safety lock lever on the left side of the operator, the release lever will raise the hinged type left console to deactivate all hydraulic functions
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.17 | Two pilot operated joysticks actuate boom, stick, bucket and swing
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.18 | Shall have Tilt Steering column pivot at the floor
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.19 | Shall have 24 to 12 volt DC converter amp to run a 2-way radio
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 6.20 | Halogen lights – two on the front of the cab and two work lights on the _____ to provide ample lighting in night time operations
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

- 6.21 Instrument panel will have full monitoring capabilities including gauges, warning lamps and machine operating conditions
Specify: Yes No
- 6.22 Beacon strobe type light, amber in colour
Specify: Yes No
- 6.23 Shall have signal lights, clearance lights and backup lights
Specify: Yes No

7. UNDERCARRIAGE AND DRIVE:

- 7.1 Two-speed power shift transmission with all wheel drive plus creep speed
Specify: Yes No
- 7.2 Machine will be capable of variable speed
Specify: Yes No
- 7.3 Single rocker pedal controls speed
Specify: Yes No
- 7.4 Maximum creeper speed shall be 2.4 Mph
Specify: Yes No
- 7.5 Maximum wheel base of 9' 2"
Specify: Yes No
- 7.6 Grade ability at 61%
Specify: Yes No
- 7.7 The machine will have dual brake system with multi wet Disc brakes on all four wheels
Specify: Yes No

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- | | | | |
|------|---|------------------------------|-----------------------------|
| 7.8 | Rear outriggers operated independent of the other and guards to protect the hydraulic cylinder
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7.9 | Front dozer blade with a top guard to prevent material from falling back on cylinders and mechanism
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7.10 | 10.00 x 20 Double tires with an anti-stone ring minimum
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7.11 | Tires to be 16 ply rating minimum
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7.12 | Axle with oscillation lock to be supplied
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7.13 | Fully hydraulic, open centre non-reaction load sensing steering system
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7.14 | Shall be all wheel drive
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7.15 | Drive train shall have one variable piston motor on a mid-mounted two stage gearbox providing power to the front and rear axles
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 7.16 | Front steering axle to oscillate at 9 degrees
Specify: | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

8. SUPERSTRUCTURE, BOOM ARM AND ATTACHMENTS:

- 8.1 Stick length shall be a minimum of 8' 2" or maximum of 8' 11" long
Specify: Yes No
- 8.2 Reach at ground level shall be a maximum of 30' 10"
Specify: Yes No
- 8.3 Please specify dig depth at ground level: Yes No
- 8.4 Hydraulic attachment coupler and coupler piping shall be included. Operator will be able to attach and detach tools without leaving the cab
Specify: Yes No
- 8.5 42" Heavy Duty excavating bucket with 5 Esco Teeth with Ultralok system and side cutters
Specify: Yes No
- 8.6 Shall have 60" tilting ditching bucket. The bucket tilt will be double acting with weld on cutting edge
Specify: Yes No
- 8.7 Hammer / Shear piping including shut off valves and hydraulic line Quick connect fittings will be included
Specify: Yes No

- 8.8 The RFP will be required to provide and install a Pro Mac 48' Drum Cutter with Fixed Teeth. Yes No
Specify:

9. WARRANTY:

- 9.1 Shall consist of 3 years / 5000 hrs, 100% on parts, labour and travel. Yes No
Specify:

10. DELIVERY:

- 10.1 Delivery of the complete unit can be expected in _____ days after placing the order but no later than _____ days. Yes No
Specify:

11. PAYMENT

- 11.1 Total Cost of Equipment

RFP Unit Price \$ _____

HST \$ _____

Other Charges \$ _____

Total Cost of Equipment \$ _____

The closing date for response will be Wednesday May 3, 2017 at 12:00 p.m. Please deliver your sealed quote clearly marked "Rubber Tire Excavator" to the Grafton Administration Office located at 10836 County Road #2 to the attention of "Troy A. Gilmour, Public Works Superintendent", or email submission to tgilmour@ahwtp.ca