



REQUEST FOR PROPOSAL (RFP) PW 2019-02

FOR THE SUPPLY OF A NEW FOUR WHEEL DRIVE BACKHOE LOADER

(Equipped with specified attachments)

RFP Closing: June 28, 2019 at 2:00 p.m.

RFP Openings: Immediately following the closing deadline

RFP's Will Be Received By:
Scott Cameron, C.E.T.
Public Works Manager
310 Port Elmsley Road
Perth, ON, K7H 3C7

ALL TENDERS/RFP's SUBJECT TO BUDGET APPROVAL

**REQUEST FOR PROPOSAL PW 2019-02
FOR THE SUPPLY OF A
NEW FOUR WHEEL DRIVE BACKHOE LOADER**

The Township of Drummond/North Elmsley wants to purchase a NEW tier three minimum backhoe with specified attachments.

Quotations are hereby requested for the vehicle mentioned above.

All purchases are subject to Council budget approval.

Quotations must be submitted on the attached proposal form by mail or hand delivery, in a sealed envelope, clearly marked with its contents, to the undersigned by the following deadline:

**Closing Date: June 28, 2019 at 2:00 p.m.
RFP Opening: Immediately following**

**Scott Cameron, C.E.T.
Public Works Manager
310 Port Elmsley Road
Perth, ON, K7H 3C7**

Faxes or email will not be accepted.

All quotations will be opened and recorded publicly immediately following the above-noted deadline.

INQUIRIES REGARDING RFP

All inquiries relative to this RFP shall be directed to **Scott Cameron, Public Works Manager** at scameron@dnetownship.ca or (613) 267- 6500 Ext. 250.

No information provided orally by the Township shall be binding, nor shall it alter the requirements in any way.

INFORMATION TO BIDDERS

1. The total RFP price shall be for the supply of one (1) 4 x 4 Backhoe complete with all specified optional equipment. The backhoe shall be f.o.b. the Dealership, and shall include freight, service and preparatory charges.
2. All units supplied shall be complete and operational at the time of delivery. The successful bidder shall supply any equipment not specifically mentioned herein necessary for the successful operation of the equipment.
3. Prices quoted shall remain firm and open to acceptance for 30 (thirty) days after the closing date unless otherwise stated.
4. The successful bidder shall supply a fully executed manufacturer's warranty on the backhoe.
5. The backhoe shall be at least 2018 or newer.

6. The Municipality of the Township of Drummond/North Elmsley meets the definition under the Broader Public Sector to access Ontario Government purchasing discounts and Vendors of Record; please price accordingly.
7. Payment in full for one (1) fully equipped backhoe will be made within fifteen (15) days of receipt.
8. Backhoe must be supplied within 90 days of receipt of purchase order.
9. Lowest or any RFP not necessarily accepted.
10. Specifications are for guideline purposes to all bidders and the municipality will consider equal or better options that suit the Municipality's needs.

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NEW FOUR WHEEL DRIVE BACKHOE LOADER**

SPECIFICATION SUMMARY	YES	NO
S.A.E. Max. B/H digging depth - 18' 2" (5.53m) min.		
Loader bucket capacity - 1.31 cu. yd. (1.0 cu.m.)		
S.A.E. operating weight 19,000 lbs. (8,618 kg.) min.		
Engine, diesel turbocharged 99 net Peak HP		
Torque converter Power Shift Transmission - 5F 3R -		
Overall width less loader bucket - 86" (2.18m)		
Overall height to the top of the cab - 9'2" (2.79m)		

GENERAL SPECIFICATION	YES	NO
This unit shall be supplied with all standard equipment, plus all other equipment required by this specification		
Specification definitions shall be to S.A.E. or ISO standards unless stated otherwise		

DETAILED SPECIFICATION	YES	NO	
1. <u>MAKE & MODEL</u>			Specify Make: Specify Model:
2. <u>TYPE</u> The unit shall be designed as an integral backhoe loader with a backhoe, but not a tractor fitted with a loader and a backhoe			
The unit shall be supplied with a hydraulically operated extendable dipperstick attachment			
Weight of the backhoe specified as requested with attachment			Specify:
3. <u>ENGINE</u> Diesel powered, 99 Net Peak Power (ISO9249) with at least Tier III emissions certification			Specify Make: Specify Model: Specify HP:
Net torque 312 lb-ft. minimum			Specify:
Displacement - 4.5 L minimum 4 stroke Turbocharged Wet Sleeve engine			Specify:
Auto Shutdown feature shall be included			
4. <u>POWER PLANT PARTS</u> Air cleaner - dry type, two stage with restriction indicator shall be supplied			Specify:
Oil filter - removable element type			Specify:
Battery - two 12 volt batteries with minimum reserve capacity of 190 minutes and 950 CCA each			Rating:
Battery disconnect switch shall be supplied			
Alternator 150 amp. minimum			Specify:
Fuel Filter - shall be supplied			

DETAILED SPECIFICATION	YES	NO	
Engine hour meter, water temperature gauge, fuel gauge and tachometer shall be supplied. Monitor system and/or gauges with audible and visual warnings for all other functions			
Foot accelerator shall be supplied			
Electric starter shall be supplied			
Ether cold weather starting aid			
Pressurized liquid cooling system with thermostat and coolant recovery bottle. Anti-freeze -35 degrees F shall be supplied			
Engine Coolant heater to be supplied			
5. WEIGHT Operating weight – 19,000 lbs. (8,618 kg) minimum with ROPS cab and equipment specified (without ballast in tires)			Specify:
Centre of gravity shall be well within the rear of the area enclosed by the chassis			
6. TRANSMISSION The transmission shall be powershift with torque converter, 5 forward and 3 reverse gears			Specify:
Maximum transport speed shall be no less than 24.9 MPH (40km/h)			Specify:
Maximum speed in first gear at engine rate rpm shall not exceed 3.5 mph (5.6km/h)			Specify:
Transmission shall have shuttle shift feature			Specify:
Transmission shall be hydraulic clutch shifting			Specify:
7. AXLES SAE J43 front axle load rating (static) shall be 51,809 lbs. (23,500kg) minimum			Specify:
Rear axle shall be equipped with a foot-operated, automatic release differential lock engageable on the go and under full engine rpm			Specify:
Mechanical front wheel drive engageable on the go shall be supplied			Specify:
Mechanical front wheel drive shall be equipped with a limited slip differential			Specify:
Front axle completely sealed, with no vents so as to not allow contamination			Specify:
A front drive shaft guard is to be supplied			
Machine to be equipped with Ride Control			
8. STEERING Full power steering, shock resistance and easily operated by the operator whether sitting or standing. Emergency dead engine steering capability			
Bucket clearance circle of 37'(11.27m) maximum without brakes applied & front wheel drive engaged			Specify:

DETAILED SPECIFICATION	YES	NO	
Curb Turning Radius shall not exceed 14'3", (4.35m) maximum without brakes applied			Specify:
9. BRAKES Wet disc all hydraulic service brakes, self-adjusting and self-equalizing shall be supplied			Specify:
Parking brake supplied shall be independent of service brakes and should engage automatically when the engine shuts down			
When activated, the park brake shall neutralize the transmission			
Parking/secondary brake shall be of sufficient design to hold weight of machine on slope			
Parking brake shall have an indicator light and audible warning			
All brakes must conform to ISO 3450 specification			
10. TIRES Front tires shall be Michelin Radial XMCL 340/80 R18 minimum			Specify:
Rear tires shall be Michelin Radial XMCL 500/70 R24 minimum			
Front Fenders to be supplied			
11. FRAME Vehicle frame shall feature a single-piece weldment, Full-length unitized main frame			
Rubber bumper frame			
Unit shall have two front and one rear built-in Transport tie-downs			
12. CAB An enclosed weather-proof deluxe steel cab shall be provided with dual side door openings for easy access to the driver's seat, with tinted safety glass, latched windows, lockable cab doors and including sound suppression with maximum dBa rating of 75 dBa			
A roll over and falling objects protective structure shall be incorporated into the cab. (SAE J 1040, J 1043 or J231)			
Sun Visor			
Seat - adjustable, air-suspension, turnable deluxe fully padded with a shock resistance device, lumbar support and adjusting armrests			
Audible alarm shall sound if the operator turns the seat to the backhoe position while FNR lever in gear			
A 5lbs ABC Fire Extinguisher to be supplied and installed			
First aid kit to be supplied and installed			
Seat belts as per SAE J396 shall be supplied			

DETAILED SPECIFICATION	YES	NO	
Heater - a cab heater, pressurizer ensuring operator's comfort at various outside temperatures. Heater to be 40,000 BTU/Hr minimum			
Factory installed air conditioning with minimum 26,000 BTU output shall be supplied			
Windshield wipers front and rear shall be supplied			
Lockable vandal protection shall be supplied for all liquid fill openings			
Interior front-view mirror shall be supplied (Right hand side when facing back-hoe end)			
Interior rear-view mirror shall be supplied			
One external side mirror on right hand side			
All controls shall be easily reached and operated from a sitting position			
Grab bars – one on each side shall be mounted outside cab			
With bucket fully raised there shall be an exit from either side of the cab			
Slow moving vehicle rear warning emblem securely mounted on the tractor shall be supplied			
13. <u>LOADER BUCKET and ATTACHMENTS</u> To manufacturers' standard specification and a heavy duty welded steel construction			
Type - front dumping with bolt on reversible cutting edge			
Type - front dumping with bolt on reversible cutting edge. Capacity - 1.31 cu. yd. (1.0 cu. m.) SAE rating general purpose bucket			Specify:
Width shall be adequate to clear the rear tread width			Specify:
Overflow spill plate on top of loader bucket			
A hydraulic loader attachment coupler shall be supplied			
Front quick attach forks, 48" tines with mechanical adjustable spread			
DETAILED SPECIFICATION	YES	NO	
14. <u>LOADER OPERATING CAPACITY</u> Loader lift capacity shall be 7324 lbs. (3322kg) minimum to the full height with a 1.31 cu.yd general purpose bucket			
Loader breakout force shall be 10532 lbs. minimum with General-Propose 1.31 cu.yd bucket			
The cutting edge clearance when the bucket is dumped at 45° shall be 8'10" (2.65m) minimum with specified bucket			Specify:
Dump reach at full height shall be 27" (685mm) minimum			Specify:

15. <u>LOADER FRAME AND LIFT ARMS</u> Frame shall be of heavy duty welded construction			Specify:
Lift arms shall be of heavy duty welded construction			Specify:
All swivel points shall be equipped with replaceable hardened steel bushing			
Linkage shall be self-levelling with bucket position indicator			
16. <u>LOADER CONTROLS</u> Control valves shall be located so they are easily accessible to the operator when loading or using the backhoe & provide good visibility of the bucket from all positions			
Transmission disconnect button on loader control lever shall be supplied			
An automatic bucket leveler, return to dig and float position shall be supplied			
17. <u>BACKHOE OPERATING DIMENSIONS</u> Digging depth, 2-ft (610mm) flat bottom trench shall be 18'0" (5.48m) minimum			
Reach from center of swing mast pivot pin to the supporting surface of the bucket teeth at ground shall be 21'9"(6.62m) minimum			
Loading height shall be 13' 8" (4.14m) minimum with bucket pivot pin center line to the ground line			Specify:
Extendable dipperstick shall be fabricated utilizing an 'external box' design to protect the dipperstick section from damage and reduce contamination on the slide surfaces			Specify:
18. <u>BACKHOE OPERATING CAPACITY</u> Dipper lift capacity at the rated dump height, fully extended, measured at the bucket hinge pin, on the machine centerline, shall be 2,929 lbs. minimum using the dipper cylinder			Specify:
Digging force with bucket cylinder shall be 15,254 lbs. (67.8kN) minimum			
Swing arc shall be 180 degrees minimum			Specify Capacity: Max. Dump Height:
DETAILED SPECIFICATION	YES	NO	
Minimum SAE J31 dipper lift capacity (retracted) of 4,681 lbs. to 12' (3.66m) lift height			Specify:
Two lever pilot control for backhoe functions			Specify:
Control pattern switch shall be located in the cab			
190 degrees backhoe bucket rotation			
19. <u>BACKHOE STABILIZERS</u> Two hydraulically operated outriggers with reversible pads & lockouts in stabilizers (both up and down) shall be supplied			

Equipped with rubber pavement pads on one side			
Operating stabilizer spread shall be 13'3" (4.03m)			
20. BACKHOE EQUIPMENT Automatic hydraulic swing brakes or cushioning shall be supplied			
Backhoe shall be entirely hydraulically controlled with separate cylinders to control the bucket, boom and dipperstick			Specify:
Quick coupler feature to pick up John Deere, Case, Cat buckets and attachments shall be supplied			
Backhoe boom lock shall be controlled from the cab			
Hydraulic thumb – 4 tine to operate with the 24" bucket and manual quick attach shall be supplied and installed			
Auto idle feature shall be included			Specify:
21. BACKHOE BUCKETS 24" x 7.5 cu.ft. (610mm x 0.21 cu. m.) heavy duty trenching bucket shall be supplied			
Bucket shall be supplied with minimum five replaceable teeth			
42" Hydraulic Twist Bucket with Bolt on Cutting edge. The auxiliary hydraulics will allow for the use of either the thumb or the Twist bucket. Hydraulic flow to be changed by means of additional ball valves installed on the dipper stick			
22. HYDRAULIC SYSTEM Open center hydraulic system for efficient operation of the loader and backhoe			Specify:
Gear type pumps shall be heavy duty continuous operating type, with 36 U.S. G.P.M. (136 L/min) capacity minimum with hydraulic cooler to facilitate operation of backhoe, loader and any attachments			
All hoses and fittings shall be O-ring-flat face seal type located so that they are protected			
Loader auxiliary hydraulics with quick coupler hydraulic fittings shall be included			
Shall be capable of operating a rotary sweeper broom with a loader detent (on/off.) See Photo #1 for sweeper details.			
DETAILED SPECIFICATION	YES	NO	
23. COUNTER WEIGHTS The counterweights recommended by manufacturer for efficient operation of the extendable dipperstick and coupler shall be supplied			
24. AUTOMATIC GREASER Single line parallel operating automatic greaser with a low level and dash light warning indicator. Interval			

grease timer can be adjusted manually without a device.			
25. <u>PAINT</u> Manufacturer's standard colours			
26. <u>RADIO</u> AM-FM Weather Band radio shall be supplied with Bluetooth capability.			
27. <u>BACKUP ALARM</u> To operate automatically when the shift lever is placed in reverse			
28. <u>OPERATING INSTRUCTION</u> An operator's parts & repair manual shall be supplied with unit. CD copy of Manual is acceptable			Specify:
Upon delivery there shall be familiarization for operators and maintenance personnel			
29. <u>LIGHTS</u> Four LED work lights, two front and two rear, two rear stop and tail lights, two front and two rear turn signal lights, two rear reflectors, instrument panel light and cab dome light with separate switch, rotating beacon to be mounted for visibility from front and rear. All lighting shall be LED.			
Deluxe lighting package of six additional LED work lights - two front, two rear, and two side "docking" lights, shall be supplied for 360 degree illumination, visibility and to promote safe working conditions. All lighting shall be LED			
Amber/Blue combination strobe light roof mounted to be supplied.			
30. <u>WARRANTY</u> Manufacturer's full machine warranty of 12 months with unlimited hours covering parts and labour shall be supplied			
Signed detailed outline of warranty duration and coverage must be supplied			
31. <u>PRODUCT SUPPORT</u> Parts list and service manual shall be supplied			
The unit shall be delivered clean, ready for work and with a full tank of fuel			
Dealer must have service location within 150 kilometres of Drummond North Elmsley Twp.			Specify:

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PROPOSAL FORM

Total Price for Backhoe Loader \$ _____

ALL BID PRICES NOT TO INCLUDE HST.

Company _____

Address _____

City _____ Postal Code _____

Telephone _____ Fax _____

Name _____

Position _____

Email _____

Signature _____

HST No. _____

Dated at _____ this _____ day of _____, 2019.

THIS PAGE MUST BE COMPLETED AND RETURNED WITH RFP



Photo #1