

TOWN OF MIDLAND

**CURRENT MODEL OR
NEW/DEMO
MULTI-PURPOSE
ARTICULATING TRACTOR
WITH ACCESSORIES**

TENDER



FILE NO. F18-048423

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July 2015



**TOWN OF MIDLAND
OPERATIONS MAINTENANCE DEPARTMENT**

TENDER

**ONE (1) CURRENT MODEL OR NEW/DEMO
MULTI-PURPOSE ARTICULATING TRACTOR
COMPLETE WITH ACCESSORIES**

FILE NO. F18-048423

SEALED TENDERS, clearly marked as to contents, will be received at the Town of Midland's Municipal Offices, 575 Dominion Avenue, Midland, Ontario, until

12:00 noon on Wednesday, August 5, 2015

and publically opened shortly thereafter, for the supply of One (1) Current Model or New/Demo Multi-Purpose Articulating Tractor complete with Accessories.

Tender documents are available on the Town of Midland website at <http://www.midland.ca/Pages/Tenders.aspx>

THE LOWEST OR ANY TENDER NOT NECESSARILY ACCEPTED

Shawn Berriault, C. Tech.
Director of Operations

TOWN OF MIDLAND

OPERATIONS MAINTENANCE DEPARTMENT



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SECTION A

INFORMATION TO TENDERERS

**TOWN OF MIDLAND
OPERATIONS MAINTENANCE DEPARTMENT**

TOWN OF MIDLAND
OPERATIONS MAINTENANCE DEPARTMENT

SECTION A

INFORMATION TO TENDERERS

TENDERS

TENDERS FOR THE SUPPLY OF (1) ONE CURRENT MODEL (2015 or 2016 MODEL YEAR) OR NEW/DEMO (2015 or 2016 MODEL YEAR) MULTI-PURPOSE ARTICULATING TRACTOR COMPLETE WITH ACCESSORIES

Submit tenders on or before **12 NOON, WEDNESDAY, AUGUST 5, 2015** on this form, in an envelope clearly marked as to contents. Please include your company name and return address on the outside of the envelope.

A.1 SCOPE OF PURCHASE

This tender is for the supply of one (1) only, current model (2015 or 2015 model year) or new/demo (2015 or 2015 model year) multi-purpose articulating tractor complete with accessories as outlined in this specification.

A.2 DELIVERY AND CLOSING OF TENDERS

Tenderers will note that Town tender forms must be used, and tendered prices shall be F.O.B. 731 Ontario Street, Midland, and cover all items outlined in the accompanying specifications. Manufacturer's specifications and descriptive literature and standard warranty must accompany each tender.

Sealed Tenders, clearly marked as to contents, will be received by the Director of Operations, at the Town of Midland Municipal Office, 575 Dominion Avenue, Midland, Ontario, L4R 1R2 until:

12 NOON, WEDNESDAY, AUGUST 5, 2015.

Tenders will be opened by a Council representative shortly after the tender closing.

A.3 AWARDING OF TENDER

The Tenderer agrees that the awarding of the sale of this equipment described in this Tender by Resolution of the Council of the Town of Midland shall constitute an acceptance of this Tender and issuance of a Purchase Order authorized by the Director of Operations shall represent the formal Contract between the Corporation of the Town of Midland and the Tenderer. The Purchase Order will be issued once Council has endorsed the recommendation and passed a Resolution authorizing the purchase.

INFORMATION TO TENDERERS (Cont'd)

A.4 ACCEPTANCE OR REJECTION OF TENDER

The Corporation of the Town of Midland reserves the right, in its absolute discretion, to reject any or all Tenders or to award the contract to other than the Tenderer submitting the lowest Tender, provided that Council, in its sole and absolute discretion, decides that it is in the best interest of The Corporation of the Town of Midland to do so.

A.5 SIGNING OF CONTRACT AND TENDER FORMS

The undersigned agrees that this tender shall remain open for acceptance and the prices shall remain firm and unchanged and notwithstanding any error in calculation of such tender at the amount stated for a period of forty five (45) days from the date of closing this tender and the Town may, at any time within the said period, accept the said tender whether any other tender has been previously accepted or not.

In the event such tender is accepted, the undersigned agrees to accept a purchase order signed by the Director of Operations for the equipment tendered in accordance with these specifications.

A.6 DISQUALIFICATION OF TENDERS

A tender may be disqualified if:

- (a) The Tender is received after the appointed time for the closing of tenders;
- (b) The Tender is incomplete, illegible or obscure, or contains additions, qualifications, erasers or irregularities of any kind;
- (c) The Tender is received on other than the Tender Form supplied;
- (d) The Tender is not properly signed and sealed; and
- (e) Erasures or strike outs are not initialed by the signing officer.

A.7 SALES TAX

The Tendered price is subject to the Harmonized Sales Tax (HST), however, HST should not be shown on the tender price submission. The successful bidder should include HST on their invoice and show it as a separate line item.

A.8 PAYMENT

The Contractor shall accept the compensation as herein provided, in full payment for furnishing all necessary equipment and other incidentals as are required to meet the specifications of this Tender.

Upon receipt of an invoice and delivery of the vehicle to the Town Public Works Depot, 731 Ontario Street, Midland Ontario, L4R 4V8, a cheque will be made available to the Tender amount as specified below.

INFORMATION TO TENDERERS (Cont'd)

A.9 CHANGES IN TENDERED ITEMS

No changes in make, model or type of equipment from that tendered upon will be accepted by the Town unless the Bidder submits complete information and specifications for the alternative equipment and then only if, in the opinion of the Town, this alternative is equal to, or better than, that in the original submission.

A.10 PARTS AND SERVICE MANUAL

The successful Bidder shall supply two (2) Operation Manuals, and one (1) Parts and Service Manual and analysis software for the type of unit supplied. These manuals shall be delivered with the vehicle supplied.

A.11 TRADE IN

This tender does **not** include a trade in.

A.12 INQUIRIES/QUESTIONS/CLARIFICATIONS

Inquiries, questions or clarifications related to this Tender are to be made to:

Rick Dalziel, Manager of Maintenance Operations
Operations Maintenance Department
731 Ontario Street
Midland, Ontario L4R 4V8
1-705-526-4275 ext. 2401
e-mail: rdalziel@midland.ca



SECTION B

FORM OF TENDER

**TOWN OF MIDLAND
OPERATIONS MAINTENANCE DEPARTMENT**

TOWN OF MIDLAND
OPERATIONS MAINTENANCE DEPARTMENT

SECTION B

FORM OF TENDER

The Town of Midland request tenders to be submitted on supplying a current model or new/demo multi-purpose articulating tractor with accessories.

I/We _____ have read and understand the Provisions, Specifications and Conditions which forms part of this tender and hereby tender and agree to supply the Town of Midland, F.O.B. Operations Maintenance Department Depot, 731 Ontario Street, Midland, Ontario, including all taxes, freight, duty exchange, transportation or other charges, fully paid, the following described current model (2015 or 2016 model year) or new/demo (2015 or 2016 model year) multi-purpose articulating tractor complete with accessories in full conformity with the Town’s specifications attached hereto, for the following sum or sums in lawful money of the Dominion of Canada.

MAKE: _____ MODEL: _____ YEAR: _____

NET PRICE

For a new (2015 or 2016 model year)
or demonstrator (2015 or 2106 model year) complete unit
inclusive of 60” snow blower, power angling sweeper,
five position folding plow and salt/sand spreader
(AS SPECIFIED HEREIN)
(EXCLUSIVE OF OPTIONAL SPECIFICATIONS)

\$ _____

DATE OF DELIVERY _____, 2015

In any case no later than October 30, 2015

DEALER: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

E-MAIL: _____

Signature

Company Seal

Please Print or Type Name and Title of Signatory

Dated this _____ day of _____, 2015



SECTION C

SPECIFICATIONS AND CONFIRMATION

**TOWN OF MIDLAND
OPERATIONS MAINTENANCE DEPARTMENT**

TOWN OF MIDLAND
 OPERATIONS MAINTENANCE DEPARTMENT

SPECIFICATIONS AND CONFIRMATION

**ONE (1) CURRENT MODEL OR NEW/DEMO
 MULTI-PURPOSE ARTICULATING TRACTOR
 COMPLETE WITH ACCESSORIES**

INTRODUCTION

This specification covers a Multi-Purpose Articulating Tractor complete with accessories.

This specification lists only the major details of a unit, therefore it is the supplier's responsibility to deliver a fully equipped vehicle with compatible components to provide dependable efficient service.

GENERAL

SPECIFICATION

CONFIRMATION

A four wheel drive, articulating, oscillating, rubber tired, diesel powered, multi purpose tractor, designed for year round Municipal work shall be supplied.	YES	NO
---	-----	----

Vehicle shall meet or surpass the mandatory requirements of the "Canadian Motor Vehicle Safety Regulations".	YES	NO
--	-----	----

Vehicle must be supplied with suitable components to comply with the following specifications in all aspects.	YES	NO
---	-----	----

Where minimums are called for, the vehicle must meet or exceed the capacity, size or performance specified.	YES	NO
---	-----	----

Heavy duty rear protection grill, with reinforcement brackets.	YES	NO
--	-----	----

Rear protection grill to support rear mounted sander.	YES	NO
---	-----	----

Machine may be used on slopes for mowing, (approximately 25 degrees) maintaining a maximum track width of 70 inches.	YES	NO
--	-----	----

Specify _____

SPECIFICATION

CONFIRMATION

Machine must have capacity to carry 1/2 yard sander or 80 US gallon water tank.

YES NO

1. MAKE AND MODEL

Specify the make and model of vehicle being tendered.

MAKE: _____
 MODEL: _____
 YEAR: _____

Model being offered must be current, 2015 or 2016 min.
 Production/Model
 New or Demonstration model

Specify: _____
 Specify: _____

2. WEIGHT

Total weight, Tractor only Minimum 6,000 lbs as per specifications (No attachments).

Specify: _____ lbs.

3. DIMENSIONS OF TRACTOR

- Wheel base 73 minimum
- Overall length to rear bumper – maximum 162”
- Height to top of cab
- Track width with std. 10.5/80 x 18 tires, 49.5 minimum
- Inside turning radius 92” maximum
- Ground clearance 9.5” minimum

Specify: _____ inches
 Specify: _____ inches

4. ENGINE

The engine supplied shall be diesel and EPA Tier III compliant

Specify: _____
 Engine Make: _____
 Model: _____

4 cylinder, 4 stroke, turbo charged.

Specify: _____

Minimum of 95 gross HP rating @ 2500 RPM.

Specify: _____
 _____ HP @ _____ RPM

Minimum of 188 Cubic inch Displacement.

Specify: _____ Cu. In.

Minimum of 360 lb. Ft. Torque @ 1800 RPM.

Specify: _____
 _____ HP @ _____ RPM

Air Cleaner – Dry type with Precleaner with maintenance indicator or warning light.

Specify: _____

Full flow oil filter spin on type with by-pass

YES NO

Engine shall be equipped with a governor.

YES NO

SPECIFICATION

CONFIRMATION

ENGINE (Cont'd)

A Murphy model 518 APH-12 automatic or equivalent shutdown system for low pressure, high engine temperature with override or equivalent to be supplied.

Specify: _____
 Make: _____
 Model: _____

The engine shall be equipped with a block heater and Cold starting aid controlled by the engine's electronic Control module (EMC)

YES NO

5. COOLING

Air/Oil Cooled or pressurized water cooled system to be supplied.

Specify Type: _____

If water cooled, heavy duty radiator core to be supplied.

Specify Capacity: _____

Heavy duty radiator guard to be supplied.

YES NO

Engine cooling system to have long life anti freeze coolant and effective to 37 degree C.

Specify: _____ Degree

Radiator and oil cooler to be completely enclosed and sealed to keep grass clippings from entering fins if applicable.

YES NO

Heavy Duty Hydraulic oil cooler to be supplied.

YES NO

Quick easy access to oil stick is required.

YES NO

6. AUTOMATIC GREASER

Supply and install a Groeneveld Electric EP-0 Greasing System, (no substitutes), with all brass or stainless steel injectors, fittings, blocks and connectors. A 4.0 kg minimum clear reservoir, (12V) pump with a spring tension follower plate and a stainless steel guide rod, pump part # 53101. A parallel system with pump pressure activated brass injectors. Complete with an electric timer with an audible low pressure in cab alarm part Number, 09901. All lines where applicable are protected with UV grade spiral wrap and nylon ties. The Automatic Greasing System will provide appropriately timed grease application to all grease points on the unit (i.e. chassis and body components, as well as the unit implements. via quick connect couplers. All protection housing for tubing and fittings where required are to be included. Installation to be completed at the Midland Operations Maintenance Yard.

YES NO

SPECIFICATION**CONFIRMATION****7. FUEL**

105 Minimum capacity fuel tank.

Specify:
Litres _____ Gallon _____

Fuel Tank fill point shall be easily accessible.

YES NO

Micronic fuel filter to be supplied.

YES NO

8. EXHAUST

If unit is holder model the exhaust must have a vertical pipe coming off muffler tip
Pipe shall be 56" long with rain cap

YES NO

9. ELECTRICAL EQUIPMENT

The unit shall be equipped with a computer controlled Monitoring and diagnostic system

YES NO

All wiring including wiring harness must be coded and numbered and printed permanently on the wire insulation. Codes and numbers must be shown on all parts manual exploded views and wiring schematic drawings and charts.

YES NO

Battery, 12 volt, Group #49, heavy duty
950 CCA shall be supplied.

Specify Volt: _____
Group: _____
CCA: _____

Alternator 12V – 100 Amp shall be supplied

Specify: _____ Amps

Booster Terminals – Externally mounted terminals for dead battery starting shall be supplied be easily accessible through shrouds.

YES NO
Specify: _____

Alternator voltage indicator light with meter mounted on dash shall be supplied.

YES NO

Back-up warning alarm shall be supplied

YES NO

SPECIFICATION**CONFIRMATION****10. LIGHTING**

All lights and reflectors as required by Commercial Vehicles shall meet Ontario Highway Traffic Act shall be supplied.

YES NO

Two front dual LED headlights with dash indicator light.

YES NO

Two front top of cab work lights with in-cab switch

YES NO

Two rear top of cab LED work lights with in-cab switch

YES NO

One back-up light. LED

YES NO

Directional lights c/w 4 way hazard flasher lights.

YES NO

Stop and tail lights must be LED.

YES NO

Must have a low profile roof guard with two LED headlights and flashing amber/blue LED light on front, rear and both sides with two (2) control switches in cab.

YES NO

If unit is a Trackless, it must have amber/blue LED lights built into A/C guard and visible on all four sides of the tractor.

YES NO

Cab dome light. LED

YES NO

12 volt, power supply in-cab to suit power adapter

YES NO

If sander requires lights, a trailer plug must be installed at rear of machine.

YES NO
Specify: _____

11. CAB

Cab doors shall have hold-open devices with vibration snubbers.

Specify: _____

Driver door must be steel with glass window

YES NO

Tinted safety glass throughout cab.

YES NO

Sliding side windows both sides.

YES NO

The unit must be equipped with a fully enclosed cab & shall be "ROPS Certified" to ISO 3471 or SAE J1040-C Standard and bear a certification label so stating. An Engineering "ROPS" test report must be submitted with the bid document.

YES NO

SPECIFICATION**CONFIRMATION****CAB (Cont'd)**

The cab shall be sound suppressed model with a sound absorbent rubberized floor mat and padded interior sound absorbent lining.

YES NO

Operators manual placed in a secure and accessible location in the cab.

YES NO

Decibel rating not to exceed 76 dBA maximum.

Specify: _____ dBA

Fresh air filter.

YES NO

Adjustable overhead vents, capable of defrosting front, side and rear windows and floor heaters must be provided.

Specify: _____

Windshield wipers and washers for front and rear windows, front shall be pantograph type.

Specify: _____

Steering wheel to be tilt adjustable.

YES NO

One interior rear view mirror to be supplied.

YES NO

Two exterior breakaway rear view mirrors (LH and RH side) adjustable from inside cab through sliding cab door glasses.

Specify: _____

Shall have a four way adjustable air ride suspension Seat, cloth covered, high back, with lumbar support & armrests.

YES NO

Specify: _____

Seat must contain a safety switch that automatically.

YES NO

Shuts down engine or disengages the PTO and hydraulic if the operator leaves the seat.

YES NO

Three point seat belt (lap belt not acceptable).

YES NO

The cab must be equipped with a filtered air circulation system cable of heating, air conditioning, defrosting and pressurizing the cab with a minimum 3 speed fan. The defroster must be effective on all windows. If roof mounted must have a brush guard and not to obstruct rotary lights visibility from front and back.

YES NO

Sun Visor to be supplied.

YES NO

Horn to be supplied.

YES NO

SPECIFICATION

CONFIRMATION

CAB (Cont'd)

AM/FM Radio with C/D player to be supplied.	YES	NO
Install First Aid and CPR Kits.	YES	NO
Install Fire Extinguisher	YES	NO
Convenient in-cab controls.	YES	NO

12. CAB INSTRUMENTS

Dashboard cluster to include the following items:

Alternator charge gauge, engine oil pressure, engine oil temperature, park brake indicator light, differential lock indicator, turn signal indicator, start aid indicator, engine temperature gauge, tachometer, hour meter (with engine running), fuel gauge, transmission hydraulic oil temperature.

Specify: _____

All gauges and switches to be illuminated for after daylight operations.

YES NO

13. TRACTOR DRIVE SYSTEM

Hydrostatic transmission with two mechanical speed ranges.

Specify: _____

Minimum driving speed forward, low range 0. to 14 KM/Hr., high range 0. to 31 KM/Hr.

Specify: _____

Driving speed reverse low range 0. to 14 KM/Hr., high range 0. to 31 KM/Hr.

Specify: _____

Shall be integrally cooled hydrostatic oil with hydraulic driven fan and cooler.

Specify: _____

Hydrostatic transmission shall have a built-in neutral safety start switch.

Specify Type: _____

Tractor to have work/travel mode to minimize fuel consumption. Travel mode to be electronic off foot pedal

Specify: _____

Matched variable displacement pump and hydrostatic motor, Electro-mechanically controlled.

Specify: _____

Gear driven, oil bathed input shaft drive for hydrostatic pump and motor.

Specify: _____

System to be closed loop flow with fixed steel feed lines, high and low pressure 10 Micron filtration.

Specify: _____

SPECIFICATION

CONFIRMATION

TRACTOR DRIVE SYSTEM (Cont'd)

The mechanical transmission may be shifted into neutral from within cab allowing the unit to be towed without damaging the hydrostatic system.

Specify: _____

14. POWER TAKE OFF DRIVE

Must have front mounted P.T.O.

Power take off clutch design specify.

Specify: _____

Front PTO 1-3/8" diameter, six spline shaft.

Specify: _____

540 PTO RPM @ 2200 engine RPM.

Specify: _____

Must have easy access to PTO shaft shear pins and bolts.

Specify: _____

PTO and high flow hydraulics must be equipped with an automatic safety sensor switch that will not engage the PTO and the high flow hydraulics unless the operator is seated and will automatically disable the PTO and the high flow hydraulics when the operator leaves the seat. The purpose is that no implement can function without an operator seated and in full control of the unit.

Specify: _____

15. HYDRAULIC SYSTEM

Hydraulic pump to be gear type pump, driven off of the engine timing gears.

YES NO

Must be 18 GPM pump minimum.

Specify: _____ GPM

Unit must have an additional transmission driven, 12 gpm gear pump and valve to accommodate extra auxiliary equipment, with a total of 30 gpm available between the two pumps

YES NO

Maximum operating hydraulic pressure 2800 PSI

Specify: _____ PSI

Pump must have integral priority flow divider to supply steering circuit.

Specify: _____

Hydraulic reservoir capacity, 15 gallons and include a sight gauge for fluid level checks.

Specify: _____ Capacity

SPECIFICATION**CONFIRMATION****HYDRAULIC SYSTEM (Cont'd)**

To have in-line suction and pressure filters.

YES NO

Six (3 sets) hydraulic front quick couplers to be supplied for operating control features on various attachments.

YES NO

Couplers shall be colour coded to match implement Connection port.

YES NO

All hydraulic couplers must be spill proof and have dust shields

YES NO

Rear of tractor to also have one set of couplers same as front ones.

YES NO

In-cab hydraulic controls shall consist of joy stick Style or manual valves acceptable.

Specify: _____

Hydraulic hoses must terminate at front of rear frame and again at rear of cab for neat routing and ease of repair.

Specify: _____

16. IMPLEMENT HITCHES

Tractor shall be supplied with a front quick hitch system. Implement height shall be controlled from inside the cab, by two double acting hydraulic cylinders.

YES NO

An accumulator shall be incorporated into the front lift system to reduce bounce caused by the weight of the implements attached.

YES NO

Tractor shall have a rear min. category one, three point hitch

YES NO

Tractor shall have a Ministry of Transportation approved slow moving sign. If any attachment obstructs the sign when attached, then each rear attachment must also have a slow moving sign.

YES NO

17. STEERING

Shall be articulated design with minimum of one double acting hydraulic cylinders.

Specify: _____

To be a closed system, priority flow with safety reservoir

Specify: _____

Tractor shall be steerable with engine shut down.

YES NO

SPECIFICATION**CONFIRMATION****STEERING (Cont'd)**

Articulation shall be 15° right and left side of centre

Specify: _____

Shall be controlled by automotive type steering wheel in-cab and tilt adjustable + include self-cancelling signals.

Specify: _____

18. BRAKES

Shall have a minimum of three braking systems, hydrostatic, service and emergency/parking brakes.

Specify: _____

Hydrostatic braking through drive line, brakes the vehicle when backing off the accelerator pedal, does not permit free wheeling at any time.

Specify: _____

Service brakes must have two wheel braking minimum 4 wheels preferred

Specify: _____

Mechanical hand operated emergency/parking brake to have a drive system interrupt and indicator light/buzzer (in-cab) when engaged.

Specify: _____

19. AXLES

Capacity of each axle to be sufficient to effectively operate the machine safely with the various attachments ordered.

Specify: _____

Axles to be electrical locking controlled.

Specify: _____

20. HUB WHEELS AND TIRES

Hubs to be full floating type (bearing on each end) and shall have six wheel studs on 6 1/2" diameter circle.

Specify:

Wheel to be minimum manufactures standard.

YES NO

Tires – One set of 4 winter tires to be loader lug tread, premium tires if trackless or Maclean must have radial tires..

Specify Size: _____

Make: _____

Wheel weights to be supplied for winter Operations if required.

YES NO

All tires to be supplied mounted on rims.

YES NO

SPECIFICATION**CONFIRMATION****21. PAINT**

Tractor to be painted manufactures standard colour.

YES: NO:

22. MANUALS

One set Parts and two (2) Operators Manuals to be supplied for machine attachments

YES NO

23. SOFTWARE

Must include all software and cable to connect to PC for engine diagnostics.

No Option

24. WARRANTY AND LITERATURE

Must have 5 year warranty on engine

YES NO
Specify: _____

Manufacturer's warranty certificate to be attached to completed tender specification.

YES NO

Copy of descriptive literature shall accompany the tender specifications.

YES NO

Manufacturer's full coverage shall be for a minimum of two years, unlimited hours and shall include all cost for the manufacturer's first recommended service, including all parts, labour, service calls and all other incidentals.

YES NO

If manufacture's Standard Warranty is greater than the minimum two year required, please state additional warranty and coverage.

YES NO
Specify: _____

Warranty to be done in Midland at no travel cost to the Town. If repair requires unit to be moved, dealer is responsible for paying the costs

YES NO
Specify: _____

Successful bidder must supply a build sheet stating all the manufacturers part #'s (i.e. filters, belts, accessories, etc used on this unit)

YES NO
Specify: _____

SPECIFICATION

CONFIRMATION

25. DELIVERY DATE

A firm delivery date is requested for the unit(s) and implements ordered. Should the unit(s) not be available by the delivery date stated a loaner unit(s) may be required (discretion of the Town of Midland) until delivery is made at no cost to the Town of Midland.

State the delivery date:

YES NO
Specify: _____

YES NO
Specify: _____

26. TRAINING

All training shall be provided for at no cost to the Town of Midland by a qualified trainer, approved by the manufacture of the unit and the implements. It shall be scheduled with the Manager of Maintenance Operations.

A minimum of four (4) hour training, of the service technicians, in the operation and the maintenance of the unit, shall be provided after the unit is delivered. There shall be an additional hour of training for each implement purchased.

YES NO
Specify: _____

YES NO
Specify: _____

27. SPARE PARTS AND DELIVERY

The Dealer shall ensure that spare parts will be readily available to maintain and repair the unit supplied for a reasonable period of time consistent with normal life of vehicle.

Confirm: _____

Company Name: _____

Address: _____

Phone #: _____

It shall be the responsibility of the supplier to service the unit with lubricants etc., prior to delivery in condition for immediate use.

YES NO

SPECIFICATION**CONFIRMATION****SPARE PARTS AND DELIVERY (Cont'd)**

Operator and service instructions shall be provided at time of delivery.

YES NO

28. SPECIFICATIONS

salt/sand spreader

YES NO

power angling sweeper

YES NO

60" snow blower

YES NO

five position folding plow

YES NO

(above equipment to meet or exceed specifications attached herein)

29. OPTIONAL SPECIFICATIONS

The Town of Midland has specified a number of optional accessories. Pricing for these optional accessories are **NOT** to be included in the base price bid for this equipment, however, dependent on budget limitations, the Town may option to purchase one or more of these optional accessories.

DESCRIPTION**DETAILS****CONFIRMATION**

51" RIBBON SNOW BLOWER

see attached

YES NO

MULTI-WING ROTARY MOWER

see attached

YES NO

BACK-UP CAMERA

see attached

YES NO

Specifications for these Optional Accessories are attached in Section D – Optional Specifications and Confirmation.

SIGNATURE OF AUTHORIZED BIDDER

NAME OF AUTHORIZED BIDDER (PLEASE TYPE OR PRINT)

DATE SIGNED

SPECIFICATIONS FOR A SALT AND SAND SPREADER

SPECIFICATIONS	CONFIRMATION	
1. Sander to be pin mounted to rear of tractor requiring no	YES:	NO:
2. Sander shall be hydraulically driven with engagement from inside of cab	YES:	NO:
3. Engagement and disengagement must be independent from front mounted attachments	YES:	NO:
4. Spread shall be controlled by a position adjustment lever	YES:	NO:
5. The spread shall be by means of a roller with cams which disperses small spots of material in a grid pattern	YES:	NO:
6. Spread distance per hopper shall be 4 - 6 miles	YES:	NO:
7. Hopper capacity shall be not less than 1/2 cubic yard	YES:	NO:
8. Sander shall be fabricated of steel with engine spill deflector and additional signal, backup & tail lights	YES:	NO:
9. Sander shall have a total width of not more than 45" and a spread width of not more than 41"	YES:	NO:
10. Shall have colour coded hydraulic quick couplers	YES:	NO:
11. Sander ground clearance must be minimum 11" min. to be able to ride up and down curbs without any interference.	YES:	NO: Specify: _____
12. Sander must have safety screens installed.	YES:	NO:
13. Sander shall be same colour as tractor	YES:	NO:
14. Sander must be manufactured to suit the specified tractor.	YES:	NO:

SPECIFICATIONS FOR A POWER ANGLING SWEEPER

<u>SPECIFICATION</u>	<u>CONFIRMATION</u>
1. Sweeper shall have a broom diameter of not less than 32"	YES: NO Specify:_____
2. Sweeper shall have a broom width of 60"	Specify:_____
3. Overall width not to exceed 66"	YES: NO
4. Sweeper shall have a sweeping pattern of not more than 50" when angled at 30 degrees	YES: NO
5. The broom shall be powered by the tractor hydraulics or PTO driven	Specify:_____
6. Sweeper shall have colour coded hydraulic quick couplers	YES: NO
7. Sweeper shall have four stands to support entire broom when disconnected from tractor	YES: NO
8. Sweeper shall be painted	YES: NO Specify colour:_____
9. Sweeper harness shall be manufactured to suit the specified tractor	YES: NO
Allpro strip broom mandrel with stripes to be supplied Part number 27-APC60SWMSS and supplied by United Rotary Brush	YES NO

SPECIFICATION FOR A 60" WIDE SNOW BLOWER

<u>SPECIFICATIONS</u>	<u>CONFIRMATION</u>
1. Snow blower shall be manufactured to suit the specified tractor unit	YES: NO
2. Raising/lowering, chute rotation and chute deflector controlled hydraulically from inside the cab	YES: NO
3. Snow blower shall be driven mechanically through a shear pin protected PTO, and a shear pin protected auger drive	YES: NO
4. The throat opening shall be 60" x 31" minimum	YES: NO Specify: _____
5. The end plates of the body shall be minimum 3/8" thick steel	YES: NO Specify: _____
6. There shall be two spiral type 13" minimum diameter augers with ice picks	YES: NO Specify: _____
7. The impeller shall be 6" x 24" 3-blade	YES: NO Specify: _____
8. The impeller housing shall have a replaceable two (2) piece liner	YES: NO Specify: _____
9. Chute rotation shall be driven by hydraulic motor and chain with ice scraper	YES: NO
10. The cutting edge shall be 1/2" x 4" min. hardened steel and reversible	YES: NO
11. The cutting edge height shall be adjustable by top link	YES: NO
12. The sidewalk chute shall have a minimum throat clearance of 84" minimum	YES: NO
13. Blower shall be painted same colour as the tractor	YES: NO

SPECIFICATIONS FOR A FIVE POSITION FOLDING PLOW

SPECIFICATIONS

CONFIRMATION

- | | |
|---|-------------------------------|
| 1. The plow shall be capable of operating in one of five positions; angled left, angled right, straight, V-plow or scoop. | YES NO
Specify: _____ |
| 2. The overall length of the plow shall be approx. 60 inches. State the length of the plow. | YES NO
Specify: _____ |
| 3. The plow shall angle 30" left and 30" right | YES NO
Specify: _____ |
| 4. State the clearing width in the scoop position:
State the clearing width in the V-position:
State the clearing width of 30" left or 30" right: | YES NO
Specify: _____ |
| 5. The height shall be 30 inches. | YES NO
Specify: _____ |
| 6. Weight shall be approximately 785 lbs. State weight of plow. | YES NO
Specify: _____ |
| 7. There shall be minimum 3 hardened skid shoes, 5" Diameter by 1 ½ thick, or an allowable height float control | YES NO
Specify: _____ |
| 8. There shall be a minimum of 2 double acting hydraulic cylinders and 2 trip return springs, per side. State amount of springs. | YES NO
Specify: _____ |
| 9. State whether the trip edge is full plow trip or blade trip edge. | YES NO
Specify: _____ |
| 10. The moldboard skin shall be no less than 11 gauge steel. State moldboard thickness. | YES NO
Specify: _____ |
| 11. The plow push frame must be of sufficient size and strength to handle heavy duty severe application in a municipal environment. | YES NO
Specify: _____ |

SPECIFICATIONS FOR A FIVE POSITION FOLDING PLOW (Cont'd)

12. The plow shall be fitted with 2 – 6" x ½" thick hardened steel cutting edge.

YES NO
Specify _____

13. The plow push frame shall have an adjustable height stand to ease installation of plow to tractor. Plow shall have a quick attach system.

YES NO
Specify _____

14. The plow shall be painted using 2-part epoxy primer and 2-part polyurethane topcoat.

YES NO
Specify _____



SECTION D

OPTIONAL SPECIFICATIONS AND CONFIRMATION

**(PRICING FOR THESE ITEMS
NOT TO BE INCLUDED IN THE TENDER BID PRICING)**

**TOWN OF MIDLAND
OPERATIONS MAINTENANCE DEPARTMENT**

OPTIONAL SPECIFICATIONS

51" WIDE RIBBON BLOWER (NOT CHAIN DRIVEN) WITH REMOVEABLE SIDE COVERS

<u>SPECIFICATIONS</u>	<u>CONFIRMATION</u>	
1. Snow blower shall be 51" wide and 41" high (less chute)	YES:	NO
2. Snow Blower shall have an overall height of 92" with chute fully extended	YES:	NO
3. Snow blower shall be front mounted with a two stage centre drive with helical ribbons/augers	YES:	NO
4. Ribbons to be 28" diameter	YES:	NO
5. Ribbons and end plates shall have serrated leading edges	YES:	NO
6. Ribbons shall be centre gear driven. Chain or hydraulic drive is not acceptable.	YES:	NO
7. Ribbons to be equipped with independent shear bolt protection	YES:	NO
8. Auger housing shall be an open sided design to maximize performance. Blowers with closed sides are not acceptable	YES: Specify:	NO
9. Impeller dimensions shall be 27" diameter x 10" depth minimum	YES:	NO
10. Impeller shall have a minimum of 5 blades	YES:	NO
11. Chute shall be hydraulic gear driver – chains and/or cables are not acceptable.	YES:	NO
12. Chute shall rotate on a 2 piece UHMW bearing	YES:	NO
13. Chute to include manual fold-away to allow for easy clean-out	YES:	NO
14. Chute fold-away to be facilitated through a spring and damper to allow for easy tilt.	YES:	NO
15. Chute flaps shall have piano style hinges.	YES:	NO
16. Cutting edge to be a 1 piece reversible and replaceable design c/w AR400 material and grade 8 carriage bolts	YES:	NO
17. Snow blower shall include 1" thick curb guards on the side of the body	YES:	NO

OPTIONAL SPECIFICATIONS – Cont'd

**51" WIDE RIBBON BLOWER (NOT CHAIN DRIVEN)
WITH REMOVEABLE SIDE COVERS**

18. Snow Blower shall include replaceable skid shoes	YES:	NO
19. Skid Shoes shall be 1" thick AR400 materials, reversible and adjustable with 12 possible positions.	YES:	NO
20. Snow blower shall come with centralized lifting lug	YES:	NO
21. Hydraulic hose to be Parker Tough Cover	YES:	NO
22. Hoses shall be colour coded for easy hook up	YES:	NO
23. Hose, fittings, quick couplers and dust caps shall be supplied	YES:	NO
24. All snow blower metal parts shall be media blasted for paint prep	YES:	NO
25. Snow Blower shall be primed with a Zinc rich primer	YES:	NO
26. Snow Blower shall be painted with 2 finish coats of PPG Paint	YES:	NO
SUB-TOTAL PRICE	\$	_____
27. Option: Bolt on Drift Cutters – minimum 10" tall	YES:	NO
SUB-TOTAL PRICE FOR OPTION	\$	_____
TOTAL (SUB-TOTAL & OPTION PRICING)	\$	_____

OPTIONAL SPECIFICATIONS

10 FOOT MULTI-WING ROTARY FINISHING MOWER WITH SET OF FOUR TURF TIRES

<u>SPECIFICATIONS</u>	<u>CONFIRMATION</u>	
1. Cutting width shall be 10' (120")	YES:	NO
2. Mower cutting height shall have an adjustment range of 1-1/2" – 5" in 3/8" increments	YES:	NO
3. Finish mower shall have 3 fully floating independent cutting decks	YES:	NO
4. Each mowing section shall have the ability to be operated individually and independently	YES:	NO
5. Center deck shall have 4 castering wheels that are a bolt-on assembly for easy replacement	YES:	NO
6. Center deck shall include 2 bolted-on anti-scalping wheels	YES:	NO
7. Wings shall have 3 castering wheels that are a bolt-on assembly for easy replacement	YES:	NO
8. Decks shall be constructed using 3/16" steel plate	YES:	NO
9. Center deck shall have 10° oscillation side to side	YES:	NO
10. Center deck shall have 20° forward and 15° backwards oscillation	YES:	NO
11. Center deck is to be powered by a T40 PTO shaft Complete with shear bolt	YES:	NO
12. Center deck shall have a right angled gear box rated for 45 HP	YES:	NO
13. Each mower wing shall have 20° of oscillation in all 4 directions	YES:	NO
14. Each deck assembly shall be mechanically independent of each other	YES:	NO
15. Mower shall utilize identical blades	YES:	NO
16. All blade spindles shall be belt driven	YES:	NO
17. Blade spindle housings shall be bolted on using 4 bolts	YES:	NO

OPTIONAL SPECIFICATIONS – Cont'd

**10 FOOT MULTI-WING ROTARY FINISHING MOWER
WITH SET OF FOUR TURF TIRES**

<u>SPECIFICATIONS</u>	<u>CONFIRMATION</u>
18. All belts shall have a single manual belt tensioner	YES: NO
19. All mower tires shall be solid urethane and puncture proof	YES: NO
20. All tire spindles are to be 30mm with cup and cone bearings in the hubs	YES: NO
21. Mower wings shall be driven hydraulically	YES: NO
22. Mower wing drive motors shall be equipped with anti-cavitation	YES: NO
23. Mower wings shall have blade shut offs that are Mechanical over hydraulically controlled. Electrical Shut-off is not acceptable	YES: NO
24. Mower wings shall have mechanical locks for transport	YES: NO
25. Hydraulic hoses are to be colour coded for easy hook-up	YES: NO
26. Fittings, quick couplers and dust caps included	YES: NO
27. Paint shall be electro-statically applied and oven baked	YES: NO
 SUB-TOTAL PRICE	 \$ _____
27. Option: Mower shall have discharge deflectors for all 3 decks	YES: NO
 SUB-TOTAL PRICE FOR OPTION	 \$ _____
 TOTAL (SUB-TOTAL & OPTION PRICING)	 \$ _____

OPTIONAL SPECIFICATIONS

SINGLE REVERSING CAMERA SYSTEM

Supply and install a reversing colour camera system. The camera is to be mounted in a guarded, safe functional location. The monitor will be mounted in an appropriate area for maximum viewing by the operator.

The equipment will display camera view upon "reverse circuit" activation.

Specifications:

- Veilig LCD Colour Single Camera package
- 1 colour monitor minimum 7" LCD
- 1 camera with 130 degree viewing with low-lighting LEDS, 20m video harnesses and all standard mounting hardware

LCD Monitor

- 7" pure colour ultra thin LCD screen
- Three camera inputs / Video input signal: 1Vp p/75-ohm
- Angle of view: Left and right: 55degrees, Down: 35degrees, Top: 15 degrees
- Audio output: 0.3W / Earphone jack
- Power supply: 10 - 32VDC / power: ≤10W
- Maximum resolution: 480 x 3(RGB) x 234(V)
- Brightness: 300cd/sqm / Contrast: 150:1 / Dot Pitch 0.107 (H) X 0.372 (V)
- LCD mode: TFT active matrix
- Working temperature: -10/~+60 Celsius
- Warranty 1 Year
- Sun visor and automatic panel LED activation at night
- Distance grid indicator

CAMERA

- High definition colour / low power consumption / 130dgr wide angle
- IR (infrared) 18 x LEDS
- Audio and video output signal
- 4 pin socket, water resistant grade IP67 of IEC529 threaded connections
- Voltage input 8V – 24VDC
- Video output 1V (p-p) composite / 75 ohm
- Power 1W
- Electronic shutter
- Shockproof 8G
- Working temperature -25/ ~+50 Celsius / Humidity max 95%
- Warranty 1 Year

TOTAL PRICE

\$ _____



SECTION E

SUMMARY

**TOWN OF MIDLAND
OPERATIONS MAINTENANCE DEPARTMENT**

SUMMARY

Supply a new (2015 or 2016 model year)
or demonstrator (2015 or 2106 model year) complete unit
inclusive of 60" snow blower,
power angling sweeper, five position folding plow and
salt/sand spreader

\$ _____

LESS TRADE-IN
NOT APPLICABLE

\$ N/A

TOTAL

\$ _____

OPTIONAL PRICING

ITEM 1 – 51" RIBBON SNOW BLOWER

\$ _____

ITEM 2 – 10' MULTI-WING MOWER ATTACHMENT

\$ _____

ITEM 3 – BACK-UP CAMERA

\$ _____

- The above price is quoted inclusive of all applicable charges and is inclusive of delivery to the Town of Midland, Operations Maintenance Depot at 731 Ontario Street, Midland.
- The Contractor understands that HST is applicable to these prices but is not to be included in the tender bid price submitted. HST will be included in any Purchase Order and is to be shown as a separate line item on the invoice.
- The Town reserves the right to add or delete options.

Inquiries to be made to: Rick Dalziel, Manager of Maintenance Operations
Operations Maintenance Department
731 Ontario Street
Midland, Ontario L4R 1R2
1-705-526-4275 ext 2401
e-mail: rdalziel@midland.ca