



CORPORATION OF THE TOWNSHIP OF ORO-MEDONTE

RFP NO. OCS 2019-005 SUPPLY AND DELIVERY OF THREE (3) 2019 TANDEM PLOW/DUMP COMBINATION TRUCKS

Please return proposal via email to jmetras@oro-medonte.ca. If proposal is being delivered by hand, they shall be delivered to the Township of Oro-Medonte, Administration Centre, 148 Line 7 South, Oro-Medonte, Ontario L0L 2E0. All quotations are to be received no later than 14:00:00 hours (2:00pm) local time on

THURSDAY MARCH 28, 2019

The scope of the work includes:

The supply and delivery of THREE (3) 2019 TANDEM PLOW/DUMP COMBINATION TRUCKS

Late Bids shall not be accepted.

If further information is required contact the following in writing up to and no later than 15:00:00 hours (3:00 pm) local time on **MARCH 26, 2019**

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Operations and Community Services Department
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The Owner reserves the right to accept or reject all or part of any Bid and also reserves the right to accept other than the lowest Bid and to cancel this Call for Bids at any time.

Township of Oro-Medonte

Appendix A

Vehicle Specifications

Vehicles must be supplied with suitable components to comply with the following specifications in all aspects. Substitutions are allowed provided they meet and/or exceed required specifications.

MAKE:

MODEL:

SPECIFICATION AND CONFIRMATION

Three (3) TRUCK CAB & CHASSIS

G.V.W.R. 30,844KG (68,000lbs)

Cab to Axle 3404mm (134") *clear effective C.A. required!

NOTE: Chassis supplier to check with ON O.E.M. plow equipment manufacturer / supplier before ordering chassis, relevant to required SPIF Regulations chassis layout

GENERAL:

This specification covers a 30,844kg / 68,000 lb. GVWR diesel truck, tandem axle intended for installation of a one-way snow plow or a 12' reversible, full tilt / detachable snow plow harness /15' sander 'U' body and cable wing assembly, O.E.M. tractor / trailer package.

Only the major details of the unit are listed. It is the supplier's responsibility to deliver a fully equipped unit with compatible components to provide dependable efficient service. Where minimums are given the unit must meet or exceed the capacity, size or performance specified.

Vehicle must be supplied with suitable components to comply with the following specifications:

SPECIFICATION:

1. **MAKE AND MODEL**

SET BACK AXLE:

Front bumper to center of front axle.

CONFIRMATION:

MAKE: _____

MODEL: _____

SPECIFY: _____

SPECIFICATION:

CONFIRMATION:

2. CMVSA:

Vehicles must meet or surpass the mandatory requirements of the "Canada Motor Vehicle Safety Act" (9-SOR 70-487) and its regulations as amended and in effect on the date of manufacture and must bear the National Safety Mark.
ON Equipment Builder Transport
Canada National Safety Mark No.

Yes No

3. VEHICLE WEIGHT:

G.V.W.R. 30,844kg. / 68,000 lb. minimum.

SPECIFY: _____

The allowable G.V.W.R. as supplied shall be shown on a metal or Mylar tag.

Yes No

Chassis tare weight -

SPECIFY: _____

4. AXLES:

Front axle shall be set back and be 9,979 kg. / 22,000 lb. capacity minimum with 23,000 lb suspension and shock absorbers. Synthetic 50W front axle lube. SKF Scot Seal Plus XL front oil seals.

MAKE: _____

MODEL: _____

CAPACITY: _____

Rear axle shall be tandem

MODEL: _____

20,865kg, / 46,000 lb. capacity minimum.
Full inter axle lock valve, (1) driver controlled

CAPACITY: _____

Differential lock forward – rear axle valve and (1) rear - rear axle valve.

MXL 18T Meritor 18 T extended lube main with half round yokes. MXL 17N Meritor extended lube inter axle drive line with full round yokes.

SPECIFY: _____ driveline

SPECIFICATION:

CONFIRMATION:

Rear axles to have a power divider lockout with driver controlled switch and indicator light on dash for each driver controlled traction device switch.

Yes No

DUAL power steering boxes shall be supplied.

Yes No

Rear axle shall be single speed with 54" spread.

Yes No

Approved single speed Rear Axles

SPECIFY: _____

Is 46,000 lb. RT46146 with fore/aft and transverse control rods and rear shock absorbers both axles.

RATIO: 4.88

Synthetic lube in rear axles with axle fill and drain.

Yes No

Road speed shall be governed to max 105 km's/65mph.

Yes No

5. BRAKES: ABS

Service brakes - full air brakes.

Yes No

Front brakes min. - 16 1/2" x 6" with Gunite slack adjusters.

SPECIFY: _____

Rear brakes min. - 16 1/2" x 7" with Gunite slack adjusters.

SPECIFY: _____

Eaton single anchor pin or Rockwell

Q Type.

SPECIFY: _____

Front and rear brakes shall be S cam type.

Yes No

Dust shields front and rear.

Yes No

SPECIFICATION:

CONFIRMATION:

Positive drive wheel spring loaded parking brake, type 30 with air reservoir and instrument panel control switch.

Yes No

Means shall be provided to release the parking brakes from the cab with no pressure in the main air reservoir but with air pressure remaining in either secondary reservoirs.

Yes No

Low pressure indicator to be supplied.

Yes No

Truck to trailer brake pkg. with trailer spike on steering column, trailer brake park / release on dash, glad hands to rear of chassis frame, 7 wire electrical trailer plug to end of frame, ABS brake cable to end of frame rails.

Yes No

Air Dryer to be supplied to be AD-9 with heater.

Yes No Bendix

All air tanks to be ALUMINUM and to have a separate manual drain included with lanyard.

Yes No

Air compressor, 19 C.F.M. capacity with dry type air cleaner on intake.

Yes No

SPECIFY CFM: _____

Protection boots for both front and rear brake air chamber push rods shall be supplied.

Yes No

Goal post style, visual brake Stroke indicators installed at each Wheel.

Yes No to be

6. FRAME:

Resisting bending moment (section modulus x yield strength) Shall be 3,700,000 lb./in. min.

SPECIFY: _____

120,000 P.S.I. rating.

SPECIFY: _____

SPECIFICATION:

CONFIRMATION:

Section modulus shall be 19.8 minimum.

SECTION MODULUS: _____

FRAME YIELD STRENGTH: _____

24" front frame extension to be one continuous frame (not bolt on) with 1/4" insert. SPECIFY: _____

Mounting of snow plow cheek plates shall be possible. Yes No

H.D. Pintle hook plate and frame reinforcing rated at, or greater than the M.G.T.W specification of a Holland PH 400 Non Air Hook @ 25.5 inches from ground to lower inside saddle of pintle hook Yes No

7. SUSPENSION

Front spring capacity at the ground SPECIFY: _____
ground 5,216kg/11,500 lbs. each with shock absorbers.

Synthetic grease front axle and hubs. Yes No

46,000 lb. Hendrickson Haulmaxx rear suspension with 54" spread.
Fore and aft and transverse control rods. SPECIFY: _____

Capacity at the ground 23,000 lbs. each minimum. SPECIFY: _____

Rear shock absorbers – both axles. Yes No

STEMCO wet seals front and rear. Yes No

Grease able drive links and tie rod ends. Yes No

SPECIFICATION:

CONFIRMATION:

8. WHEELS AND TIRES

Two (2) front, first line steel belted radial tubeless type tires Michelin XZY-3 425/65R 22.5 - 20 ply shall be supplied.

Yes No

SPECIFY: SIZE _____

PLY RATING _____

Eight (8) rear, first line steel belted radial tubeless type tires Michelin XDS2 11.00 R x 22.5 - 16 ply rating shall be supplied.

Yes No

SPECIFY: SIZE _____

PLY RATING _____

Dual rear wheels.

Yes No

Two (2) HUB PILOTED wheel rims to suit front tires, shall be supplied Alcoa Dura-flange Rims

Yes No

Eight (8) HUB PILOTED wheel rims 571 mm x 209 mm/22.5 x 8.25 shall be supplied.

Yes No

Rims shall have load and pressure ratings equal to or greater than those of tires. All rims to be WHITE - powder coated.

Yes No

SPECIFY: _____

9. ENGINE: 2017 EPA compliant

Diesel in-line 6 cylinder WET SLEEVED engine producing 450 H.P./ 1650 lb/ft torque governed at 2100 R.P.M. Engine displacement – 12.8 litre minimum 4 stroke minimum.

Yes No

SPECIFY: _____

Engine net H.P. 450 H.P. minimum at rated RPM

SPECIFY: HP: _____

R.P.M.: _____

Minimum net torque shall be 1650 ft. lbs. @ 975 RPM, 4 stroke engine turbo charged. Torque 975 rpm

SPECIFY NET TORQUE: _____

SPECIFICATION:

CONFIRMATION:

Engine compression brake with two position in-dash switch.

Yes No

Engine oil pan to be treated to prevent Premature rusting and corrosion.

Yes No

SPECIFY: _____

Note: Required engine ratings must be set at the time of engine manufacture. Engines with locally altered ratings are not acceptable.

Electronic engine throttle /cruise control.

Yes No

1350 adaptor flange for front mount PTO provision.

Yes No

Full flow engine oil filter.

Yes No

DDC coolant filter, engine mounted with extended life coolant

Yes No

10. TRANSMISSION:

Shall be Allison 4500 RDS-P 6 speed automatic With push button shift control dash mounted.

Yes No

MAKE: _____

MODEL: _____

The transmission shall be supplied with 100% synthetic transmission oil for extended warranty.

Yes No

Truck ground speed for electronic spreader controller shall be by O.E.M. speed sensor attached to the truck transmission.

Yes No

SPECIFICATION:

CONFIRMATION:

In-cab TCM

Yes No

Primary and secondary shift speed and shift schedule and/or acceleration control recommended by vehicle manufacture and Allison transmission. This defined by engine and vocational usage SPECIFY: _____

Yes No

11. ENGINE EQUIPMENT:

Alternator - shall be Delco 36 SI170 amp. minimum capacity and shall be brushless.

Yes No

SPECIFY: MAKE: _____

Alternator capacity at idle speed shall be 50 amperes minimum.

MODEL _____

CAPACITY NORMAL _____

AT IDLE _____

Batteries - maintenance-free type.

SPECIFY: MAKE _____

SAE rating combined 4 - 12 volt, 2775 CCA minimum Frame mounted on the Drivers Side

SPECIFY: _____ CCA

Batteries shall be easily accessible for service.

Battery jump posts for under seat battery locate to be under cab on passenger side in cab valance panel

BATTERY LOCATION: _____

NOTE: Successful bidder to check with body builder for applicable chassis C.A. / layout prior to ordering chassis.

High temperature and low oil pressure engine protection alarm bell or buzzer device shall be installed. Automatic engine shut down not acceptable.

Yes No

Dual engine air intake through LH/RH inside/outside for winter mode when winging with 2 stage Donaldson air cleaner safety element firewall mounted with in-dash switch.

Yes No

SPECIFICATION:

CONFIRMATION:

An automatic temperature fan clutch control shall be supplied with driver controlled over ride dash switch.

Yes No

Enhanced hood hatch locates for engine oil and transmission fluid so that operator can check fluid or add without tilting the plow harness and hood.

Yes No

Air restriction indicator shall be supplied, dash mounted.

Yes No

All coolant hoses to be Gates Blue Stripe type or equal.

Yes No

A heavy duty fuel oil water separator with sight glass, mounted outside left frame rail behind cab Conmet CM-99-327D or approved equivalent.

Yes No

SPECIFY: _____

Exhaust - exhaust pipe and muffler to be horizontal. The complete system must not interfere with the snow plow wing tower mounting. After treatment device – frame mounted on outside of right hand frame rail under cab.

Yes No

SPECIFY location of DPF / SCR: _____

1500 watt/115 volt block heater to be supplied c/w engine oil pre-heater. Chrome receptacle mounted under driver's door.

Yes No

Drain plugs to be magnetic.

Yes No

Under radiator access to allow front mount PTO drive shaft/hydraulic pumps.

Yes No

SPECIFY: _____

SPECIFICATION:

CONFIRMATION:

12. CAB:

Bumper to rear of cab to be over 105". SPECIFY: _____

Seats – National 2000 series high back air suspension driver and passenger seats shall be supplied. Both seats shall be fully padded and of heavy duty grey cloth upholstery construction with foam rubber seat cushions. Minimum of driver seat to have active air lumbar support. SPECIFY: _____

Both the driver's and the passenger's seat shall be adjustable fore and aft and have dual armrests. Yes No

ELECTRIC HEATED WINDSHIELD: Yes No

O.E.M. Tinted windows Yes No

Power windows with dual driver control. Yes No

Windshield Wipers - Dual, intermittent electric with heavy duty motor. **Winter wiper blades.** Yes No

Windshield wiper speed control to force wipers to slowest intermittent speed when park brake set and wipers left on Yes No

Air ride cab suspension Yes No

Accelerator and brake pedals to be suspended, not floor mounted. Yes No

18" tilt /telescopic steering wheel. Yes No

AM/FM radio with clock to be supplied. Bluetooth compatible. Aux input port to be provided. Volume muted when in reverse Yes No

SPECIFICATION:

CONFIRMATION:

Fresh air heater and defroster with O.E.M. Air Conditioning Yes No

Heavy duty air conditioner compressor Yes No

Standard HVAC Ducting with snow shield for fresh air intake Yes No

Hour meter with anti-vibration mount, Hobbs type (M3888 Dampener) or equivalent. Yes No
SPECIFY: _____

Seat belts - Two. Yes No

Floor matting - H.D. insulated rubber. Yes No

Re-settable circuit breakers in lieu of fuses. Yes No

Body builder's junction box in cab for body builders to access for all required body lighting. Yes No

Power Remote Chrome mirrors with controls on driver's door two outside 152 mm x 406 mm 6" x 16" West Coast type mirrors complete with built-in lights and heaters, Dominion Auto #75-4431 or equivalent. 8" convex mirror below West Coast mirrors. Chrome look down mirror on passenger side cab. Yes No
SPECIFY: _____

Fiberglass tilt hood c/w hood service access openings for checking engine oil and transmission, stationary chrome grille, bug screen in behind grille. Yes No

Premium interior cab package with minimum 80 DBA rating for noise and heat / cooling. Deluxe interior to include insulated padded door panels with map / storage pockets, insulated padded cloth headliner, dual padded sun visors, overhead console with storage pockets and map / interior lights, insulated padded back panel, 2 cup holders accessible to both driver and passenger. Yes No

SPECIFICATION:

CONFIRMATION:

In-cab gauges to include: tachometer, speedometer, trip oil pressure, engine temperature, fuel, engine hour meter, amp/voltage, dual air pressure, air cleaner restriction, transmission temperature, axle temperature, and any other gauge required for safe operation of the unit.

Yes

No

O.E.M. pre-trip inspection test exterior lights package– will cycle all exterior lamps for operator mandatory walk around, daily trip report

Yes

No

Grab bars on each side of cab to assist easy entry and exit shall be supplied.

Yes

No

Rain gutters or drip moldings shall be supplied.

Yes

No

Cab roof mounted dual chrome air horns dual base, with snow shield

Yes

No

Exterior sun visor with L.E.D. clearance lights, colour keyed to chassis.

Yes

No

Air connections with glad hands to end of frame for trailer.

Yes

No

Primary connector / receptacle center pin powered through ignition.

Yes

No

SAE J560 7-way primary trailer cable receptacle to end of frame.

Yes

No

Supplemental ISO 3731 7-way receptacle located with primary receptacle

Yes

No

O.E.M. aux. plow wiring harness with in-cab dash mounted headlight switch for body builder to plug in plow harness headlights / turn signals.

Yes

No

Two fender mounted 4" diameter amber directional lights facing front.

Yes

No

SPECIFICATION:

CONFIRMATION:

- | | | |
|--|------------------------------|-----------------------------|
| Rear red directional lights to rear of frame shall be supplied. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| Stop lights to rear of frame shall be supplied. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| Five LED cab flush mounted clearance lights shall be supplied. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| Four-way safety flashers shall be supplied. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| Back-up lights to rear of frame shall be supplied. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 102 DBA back up alarm at rear of frame shall be supplied. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| Electrical system shall have a master cut-off switch located just inside cab beside/behind drivers seat accessible when driver's door opened. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| Front fender extensions to cover O.D. width on 425 tires, full width ¼ fender extensions / mud flaps to keep mud off of fuel tank / steps on driver's side and exhaust / DPF / SCR on passenger side. Extended flaps to be approx. 9" off of ground. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| Front fender openings to be equipped with O.E.M. skirting fully enclosing – to keep engine bay clean and dry from tire and road spray. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| O.E.M. lower colour keyed valance panels below cab door openings. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |
| 3 roadside triangle reflector kit mounted in cab. | Yes <input type="checkbox"/> | No <input type="checkbox"/> |

SPECIFICATION:

CONFIRMATION:

Dry type 'ABC' 5 lb. fire extinguisher mounted in cab on floor beside driver's seat – accessible when driver's door opened. Yes No

First aid safety kit mounted in cab. Yes No

12 volt plug in dash power source. Yes No

2 way radio wiring effects, wiring with 20 amp circuit protection, including ignition wire with 5-amp circuit, wire ends heat shrink and routed to center of overhead console in cab. supply and install a Motorola 5000e Series radio complete with standard accessories, along with a GPS hardware and software kit. All programming and configuration included. Yes No

13. FUEL TANK:

Single 302 litre / 80 U.S. gallon minimum, non-polished aluminum step tank with stainless steel straps shall be supplied and installed on driver's side. 6 gallon non polished aluminum diesel exhaust fluid tank. Yes No

14. LIGHTS:

Lighting as per present M.T.O. regulations. Yes No

15. PAINT:

Interior - Manufacturer's standard Yes No

Exterior – **Box** O.E.M. RED. (similar to Sherwin Williams #36640963)

SPECIFY: _____
Code #: _____

Cab - O.E.M White

SPECIFY: _____
Code #: _____

NOTE: Color and code for WHITE paint to be approved by the Township prior to successful O.E.M chassis dealer ordering the cab and chassis.

SPECIFICATION:

CONFIRMATION:

16. GREASING SYSTEM:

An automatic greasing system to address all cab, chassis and body shall be installed. The greasing System shall be a Groeneveld single line system. Installed on Township garage site after delivery.

Yes

No

17. BACKUP CAMERAS:

A Hi resolution back up camera system with in cab display shall be mounted on the rear of the completed vehicle – minimum three cameras, with lens wash and cover. One camera at rear body corner post – driver’s side under upper reds – facing forward. Second camera off inner body corner post – driver’s side – facing 90 degrees to back of truck, side view. Third camera, off inner body corner post – curbside – facing 90 degrees to back of truck – side view.

Yes

No

18. DESCRIPTIVE LITERATURE:

The Bidder shall enclose with his tender, one complete set of factory specifications so that the preceding specifications can be checked.

Yes

No

19. WARRANTY

Signed manufacturer's factory warranty shall be supplied. Shall have a 7year 250,000-mile engine Warranty to include Turbo, fuel injectors and after treatment

Yes

No

Where minimums are called for, the vehicle must meet or exceed the capacity, size or performance specified.

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.

Vehicles shall meet or surpass the mandatory requirements of the "Canadian Motor Vehicle Safety Regulations" 9SOR 70-487) amended, and must bear the National Safety Mark outlined in those regulations.

SPECIFICATION:

CONFIRMATION:

20. DEALER MARKINGS

Dealer markings or transfers are not to be applied to this vehicle.

21. DOCUMENTATION

Operator's and Parts manual in English (CD Version) & Yes No
Detroit Diesel Service Manual

22. DELIVERY DATE OF COMPLETE UNIT Specify: _____

Township of Oro-Medonte

Appendix B

FULL HYDRAULIC SNOW PLOW, VCL500HD Fully Hydraulic Detachable plow / wing & tilt harness

OR EQUIVALENT APPROVED BY THE MUNICIPALITY

PLEASE SPECIFY: MAKE: _____ MODEL: _____

SPECIFICATION:

CONFIRMATION

Harness Equipment

The harness assembly shall be of heavy construction to sustain snow plowing operations under severe conditions.

Yes

No

A reservoir of adequate capacity (minimum 35 gallon U.S.) shall be supplied but must not interfere with the operation of the box.

Yes

No

Ball valves shall be installed on inlet and outlet lines at the reservoir.

Yes

No

Reservoir shall be complete with oil filter, oil level sight gauge, breather type filler cap, drain plug, and temperature gauge.

Yes

No

The design and construction of the wing post shall be in compliance with MTO ES403, or be equivalent design approved by the MTO. Brace "A" in a second study cross member shall replace ES403. This cross member shall be bolted to both cheek plates. Alternate braces must be approved.

Yes

No

The front wing post shall be made of 8", I-Beam, 18.4 lbs/ft. minimum. Cross member shall be of heavy construction to sustain snow plowing operations in severe conditions.

Yes

No

SPECIFICATION:**CONFIRMATION**

The wing post, when mounted, shall not be higher than the wing tower.

Yes No

The sheave pin shall be provided with a grease fitting and an iolite bushing

Yes No

A safety stop limited slide travel shall be supplied.

Yes No

Lifting cable shall not be mounted to the hinge pin.

Yes No

An 8" grab link shall be located halfway between upper and lower position of bolt "D" as shown on ES403, or equivalent.

Yes No

Front slide shall be provided with a tip over arrangement. A spring shall be included to return the blade to normal position after it has tripped.

Yes No

Bottom of wing post shall be approx. 11" from the ground, truck empty and shall be protected by a shoe.

Yes No

A 3" x 30" stroke D.A. hardened chrome cylinder shall be mounted on the inside of the front post and shall operate the front wing slide through 2 - (6" dia.) sheaves and a cable.

Yes No

Cross member must be bolted to the wing post.

Yes No

6" overhang shall be left on cross members to allow lateral movement for mounting the wing post on future trucks.

Yes No

Nortech 9367 7" LED rubber encased front post spotlight with in-cab switch.
12" Heated convex mirror on backside of front wing post mounted with
12" raised angle iron bracket.

Yes No

SPECIFICATION:**CONFIRMATION**

The wing post and cross member shall be painted Imron 5000 Elite SS Medium Gloss Black. Yes No

Nortech 9367 7" LED rubber encased rear wing light shall be provided with separate switch. Yes No

Bottom of wing tower shall have a ground clearance of 14" minimum, truck empty. Yes No

The spacing of the holes in the slides for connecting the wing braces shall be approximately 17". Yes No

Approved size of ram controlling the rear end of wing shall be 3" dia. x 30" stroke approx. hardened chrome cylinder, with a cable and sheave assembly. Yes No

Approved size of ram controlling wing brace slide shall be 3" dia. x 36" stroke approx. and shall be double acting. Yes No

Wing tower assemblies including B.O.C hydraulic oil reservoir shall be painted Imron 5000 Elite SS Medium Gloss black. Yes No

The wing tower shall be of a heavy construction and bolted to the right side of the truck chassis. Yes No

The rear wing tower and oil reservoir will be of integral design Yes No

Wing tower shall be of 8" I beam construction minimum and its mountings shall be sufficient to sustain snow plowing operations under severe conditions. Yes No

One pipe brace 2¾" diameter shall connect the bottom of the wing tower and the truck chassis near the forward mount of the right rear springs to reduce the shock of the truck frame. Yes No

The rear wing tower shall be heavily braced and gusseted to the frame cheek plate. Yes No

SPECIFICATION:

CONFIRMATION

For maximum strength two channels shall be used to form support
Integral with the rear post.

Yes

No

Two triangular stiffeners shall be incorporated into the
assembly.

Yes

No

Hydraulic hoses shall connect the rams of the tower with the
valves in the control box. Hoses shall be two ply braided steel,
SAE100R16 with swivels on both ends.

Yes

No

All sheave pins shall be provided with oil impregnated bronze
bearings and grease fitting.

Yes

No

A safety chain shall be provided for securing wing when
not in use.

Yes

No

Guide bars to contain the rear wing slide shall be welded 100%
from the bottom up 2 feet.

Yes

No

HYDRAULIC SYSTEM

The complete hydraulic system, including hydraulic pump,
hydraulic motor(s), hydraulic valves, hydraulic control blocks,
pneumatic (air) controls, electric controls, electronic controls,
hoses and electrical harnesses, must operate in a fashion that
optimizes efficiency in all modes of use of the vehicle, such as
summer driving, winter driving, plowing-only, spreading-only ,
combination plowing/spreading and hoist operation.

A flow-on-demand load-sensing and pressure-compensated
hydraulic system and valves are required.

Yes

No

The system must provide for simultaneous operation of the
spreading and plowing equipment without degradation in performance,
even when the engine is operating at low idling RPM.

Yes

No

The hydraulic system must be set up so all other hydraulic functions
do not 'rob' the sander equipment.

Yes

No

All control functions must be fully proportional
unless otherwise indicated below.

Yes

No

SPECIFICATION:

CONFIRMATION

Hydraulic system must have a low oil level warning alarm, with in-cab warning light located in an area visible from driver's seat

Yes

No

The hydraulic suction hose must have a 2-inch inside diameter and conforms to SAE100R4.

Yes

No

Under no circumstances, should hydraulic oil be returned to the reservoir unfiltered.

Yes

No

Parker Partek (Kevlar) hose shields must be installed on all hydraulic hoses to extend the life of these hoses.

Yes

No

Hydraulic Pump

The hydraulic pump must be a variable displacement load-sensing front mounted piston-pump with a minimum continuous operating pressure rating of 4500 PSI.

Approved pump: Sauer-Danfoss 90cc.

Yes

No

The hydraulic pump body must be made of steel.

Yes

No

The pump must be installed at the front of the engine. Its machined / balanced tube drive shaft must allow for changing of the engine belts without removing the pump. A removable guard must protect the radiator and person(s). The universal joints and slip yoke may be greased without removing the guard.

Yes

No

The pump shall be driven from the crankshaft.

Yes

No

The pump shall have a manufactures R.P.M. rating equivalent or higher than that of the truck engine at governed speed.

Yes

No

SPECIFICATION:

CONFIRMATION

The pump will include an in cab low oil shutdown and override in cab switch

Yes

No

Hydraulic Valves

Combination hydraulic valve configurations Sauer-Danfoss PVG-32 closed loop, designed to work with pump and operation of the system.

All hydraulic valves required to operate the hoist, sander and equipment located behind the cab must be fully integrated in a single combination valve bank to be installed behind the cab of the truck vertically on a ¼" mounting plate, integral with the rear wing tower assembly. The valve mounting plate will be welded to the Horizontal channel and sloping diagonal brace.

Yes

No

The valve assembly will be completely open and easily accessible for washing and maintenance.

Yes

No

Chromed override handle for valves back of cab shall be supplied.

Yes

No

A valve bank mounted on the front harness in a protective enclosure (with access for cleanout) will control all hydraulic functions located at the front of the cab.

Yes

No

The system must work in "load-sensing" mode for the sander and in "pressure-compensated" mode for all other functions. Yes

No

The manufacturer's warranty for all valve components must extend for a minimum of one (1) year from the date delivery of the vehicle(s).

Yes

No

SPECIFICATION:

CONFIRMATION

The hydraulic functions are defined as follows:

FRONT BANK

- i. Front plough lift/ Harness Tilt
- ii. Reversible plough orientation.
- iii. Plough Tilt
- iv. Harness Lock Pins
- v. Front wing post lift

REAR BANK

- vi. Rear wing lift
- vii. Slide adjuster
- viii. Wing Extension
- ix. Hoist
- x. Spreader conveyor
- xi. Spinner

Yes

No

The hydraulic control valves will be operated by proportional
DICKY-JOHN single joystick control.

Yes

No

Function	P r e s s	P r e s s	P r e s s	Move Joystick Joystick to be programmed for the below functions.
Front Plow Up	3		8	Back
Front Plow Down	3		8	Forward
Front Plow Left	3		8	Left
Front Plow Right	3		8	Right
Wing Toe Up	2		8	Back
Wing Toe Down	2		8	Forward
Wing Heel Up	2		8	Left
Wing Heel Down	2		8	Right
Wing Slide Up	1		8	Back
Wing Slide Down	1		8	Forward
Tilt Plow Harness Forward	4		8	Forward
Tilt Plow Harness Back	4		8	Back
Hoist Up	4	7	8	Back
Hoist Down	4	7	8	Forward
Quick up/down - Plow, Wing Toe, Wing Heel - 1 ft of movement done by time	5	7		No movement
Emergency up - Plow, Wing Toe, time delay then Wing Heel	5			No movement

A DICKEY-JOHN single joystick plow control console shall be provided to operate all plow functions. It shall be mounted on a floor pedestal allowing the operator to adjust its position, height and orientation. The console must have backlighting to identify all control functions.

Yes

No

The controls must incorporate a safety lock to disable all plow functions when the vehicle is not used for plowing.

Yes

No

SPECIFICATION:

CONFIRMATION

An arm/disarm switch must be provided to lock all harnessing functions to prevent their accidental use. The harnessing functions must automatically be disabled while the vehicle is moving. The activation of the harnessing functions must trigger both a visual and audible alarm to notify the operator.

Yes

No

The console shall incorporate a hoist lift lever that has a lock mechanism in the neutral position and an automatic return to neutral capability from the lift position.

Yes

No

Hydraulic hoses to connect pump shall be supplied. Their size shall be adequate for quick operation of all hydraulic operations and shall be 2 ply braided steel SAE100RS, with swivels on both ends.

Yes

No

The joystick handle will be equipped with auxiliary spreader controller buttons to operate the spreader on/pause and blast on/off functions.

Yes

No

To prevent corrosion, the air shifters will have a bronze sleeve.

Yes

No

Sander Controls

A Dickey-John CONTROL POINT closed-loop electronic spreader controller with 3 section valve (spinner / conveyor and 3rd. section capped for future pre-wet shall be installed in the cab - controller mounted on bottom of in-cab swivel control pedestal between seats.

Yes

No

The spreader controller shall incorporate the following features:

An LCD display to show spreader rate, spinner settings, operating state and error conditions
controls for spread rate / speeds and spinner width
Backlight power, spread/pause and blast buttons

SPECIFICATION:

CONFIRMATION

Material selector and manual/auto mode switches
The ability to program spreading and blasting rates.
2 years' manufacturer's warranty
Dickey-John data downloader required per truck.
Controller to be GPS compatible.

Yes

No

HYDRAULIC POWER TILT SNOW PLOW TRUCK HARNESS

Approved by the Municipality.

Yes

No

PLEASE SPECIFY: MAKE: _____ MODEL: _____

The design and construction of the truck harness shall be in compliance with MTO standard ES-401, to be of equivalent design approved by MTO.

Yes

No

The harness shall be mounted at the front end of the frame, and shall be bolted to the cheek plate.

Yes

No

The lifting frame shall be bolted to the push plate and shall be braced to conform with MTO standards.

Yes

No

3/8" front harness plate with cut-out for cooling radiator.

Yes

No

Lifting Ram Diameter – 4" D.A. minimum.

SPECIFY: _____

Lifting Ram Stroke – shall be 10" minimum.

SPECIFY: _____

SPECIFICATION:

CONFIRMATION

The cylinder rod shall be fully hardened chrome plated.

Yes

No

Lift of grab link for nose chain shall be 18" minimum.

Yes

No

Drive ears shall be 30½" centre to centre.

Yes

No

Height to lower drive connection shall be 19" when mounted, truck empty

Yes

No

½" cheek plates to match truck frame shall be supplied and shall be compatible to plow.

Yes

No

All structural steel plate used in plow harness will be 44W complying with CSA G40-21.

Yes

No

Tensile strength will be 65-90KSI and minimum yield strength will be 44KSI.

PLEASE SPECIFY: YIELD: _____ TENSILE: _____

Three grab links shall be supplied.

Yes

No

Plow lights must be two heated LED, with high and low beam integral turn signals and plug into chassis factory supplied and installed Aux. plow wiring harness with dash headlight switch shall be supplied.

Yes

No

Spacing and height of headlamps shall be in compliance with ES-401.

Yes

No

Right front helper spring kit shall be provided. 5,000 lbs capacity Aeon Rubber shall be used and shall be easily removable.

Yes

No

SPECIFICATION:

CONFIRMATION

The plow lights and signals shall be equipped with "Quick-Tack" ends.

Yes

No

All hydraulic hoses and wiring shall be adequately supported to ensure that wear and sag is completely eliminated.

Yes

No

Single non load bearing full harness width lock pin/cross tube shaft.

Yes

No

The front plow harness shall tilt forward to allow the hood to tilt over centre of its pivots and stay open without the need of any additional supports.

Yes

No

The harness will be supplied with a 6" hardened chromed hydraulic cylinder, to perform the plow lift function and the tilt function.

Yes

No

The tilt cylinder will be 2½" with a 6" stroke and the cylinder rod shall be fully chromed.

Yes

No

Hydraulic power tilt function to be controlled by in cab feather air control.

Yes

No

Front plate to be complete with quick-attach hitch pockets and drop in pins for plow hook-up.

Yes

No

Two (2) 6" Grote YELLOW fog lights on top of plow
Harness with weather pack connector and in cab switch.

Yes

No

The truck harness shall be painted Imron 5000 Elite SS Medium

Gloss Black. Specify: _____

SNOW PLOW EQUIPMENT 9' ONE WAY SNOW PLOW with Rotate Left/Right

SPECIFICATION:

CONFIRMATION

This one-way snowplow shall conform to the provisions of M.T.O. standards ES-414, except that the dimensions of this specification shall prevail when the two contradict.

Yes

No

The plow shall operate effectively and without modification with the M.T.O. snow plow truck harness ES-401.

Yes

No

The weight of the plow shall range from 1,800 to 2,350 lbs. and shall be constructed to prevent the accumulation of water in any area.

Yes

No

The plow shall have a hood extending 18" past the vertical centre line, in normal operating positions.

Yes

No

Ribs shall be of one-piece construction 100% welded both sides to the moldboard. The top edge of the moldboard shall be welded 100% to the ribs. The top rail of the moldboard shall be welded securely to the ribs and moldboard with a continuous bead. All other welds must also be 100%.

Yes

No

The thickness of the moldboard and hood shall be of 10 U.S.S. gal. (.1345)

Yes

No

The moldboard shall be pivoted to allow manual tilting in different positions. Sleeved check cable from top of moldboard to plow push frame to stop plow from going over center if brace rod pin malfunctions

Yes

No

The moldboard brace rod shall be adjustable for plow angles of 45 degrees, 50 degrees and 55 degrees.

Yes

No

Both male and female ends shall have 5/8" mounting pins. The female end shall be at the top to prevent the accumulation of water.

Yes

No

SPECIFICATION:

CONFIRMATION

Holes in drive bars for push frame shall be 1¼" diameter.

Yes

No

The distance from the center line of the holes to the end of the drive bar shall be 1½".

Yes

No

Safety cable on moldboard tilt

Yes

No

The height of the moldboard at the top of curve shall be as follows:

Intake: 26" minimum.

SPECIFY: _____

Discharge: 54" minimum.

SPECIFY: _____

The overall length shall be 13' – 10" minimum.
Plow shall clear 9'3" at 37°.

SPECIFY: _____

The plow shall be fitted with two high wear shoes as per MTO ES-508.

Yes

No

There shall be eight vertical ribs, 3½" high by 3/8" thick. Minimum weld between the moldboard and rib shall be 100% weld each side.

Yes

No

The moldboard shall be continuously welded to the bottom rails.

Yes

No

The moldboard shall be designed for use with ½" MTO cutting edge ES-505 and with the MTO standard nose piece ES-507. A Polar Flex blade and nose piece shall be supplied.

Yes

No

SPECIFICATION:

CONFIRMATION

Moldboard shall have a total bearing area (pin dia. times web thickness times number of webs involved) or 4½" square inches minimum at the point where the drive links attach.

Yes

No

Trip link safety mechanism shall be incorporated, the blade mechanism must return to the normal plowing position automatically. Trip springs must be secured with lock nuts.

Yes

No

Two separate lift Grade 70 lift chains shall be used and these shall pick up on the drive frame at points approximately 48" apart.

Yes

No

These lift chains shall be 3/8" dia. minimum.SPECIFY: _____

The height of the shoes shall be adjustable as shown on MTO ES-521. Height adjustable one-way snow plow shoe holder.

Yes

No

The shoe shall oscillate.

Yes

No

The moldboard shall be formed in the shape of a smooth curve, no bends or breaks permitted.

Yes

No

The horizontal distance from the discharge end of the plow blade to the discharge end of the moldboard shall be 24" minimum.

Yes

No

A sturdy eye ½" thickness shall be provided at the center of gravity for handling of the moldboard.

Yes

No

The design and quality shall meet MTO requirements.

Yes

No

The complete snow plow unit shall be medium gloss black, as per MTO ES-301.

Yes

No

SPECIFICATION:

CONFIRMATION

12" rubber deflector bolted across top of moldboard.

Yes

No

36" florescent plow marker each end of the moldboard.

Yes

No

SPECIFICATION FOR SNOW PLOW EQUIPMENT 12' SNOW LEVELING WING

Viking VCL 144 WHD or equivalent in compliance with the following specifications and approved by the Municipality.

Yes

No

PLEASE SPECIFY: MAKE: _____ MODEL: _____

The inside height of the wing shall be 29" minimum.

SPECIFY: _____

The outside height of the wing shall be 39" minimum.

SPECIFY: _____

Overall length of the wing shall be 12 feet.

SPECIFY: _____

The thickness of the moldboard shall be 10 U.S.S. Ga. (.1345) minimum.

SPECIFY: _____

Two drive ribs for connecting the wing brace shall be provided.

Yes

No

SPECIFICATION:

CONFIRMATION

The drive ribs shall be located approximately 8'6" and 10'10" from the nose end of the wing.

Yes

No

The plate for mounting the wing to the wing post shall be 1" thick. The mounting hole shall be far enough from the edge of the plate to avoid failure in this area. SPECIFY: _____

Lower wing angle shall be 6" x 4" x 3/4"

Yes

No

The mounting of the nose end of the wing to the wing post shall be by means of a hinge and rectangle spring or torsion spring, to allow tipping over the wing

Yes

No

Two adjustable wing braces shall be supplied.

Yes

No

The upper brace shall be of a stock release type, including a spring retraction. The spring shall provide adequate stability of the wing in normal operating conditions, and shall retract the wing from tip-over position.

Yes

No

One spare pin for adjusting the wing braces shall be supplied with each brace.

Yes

No

The wing shall be fitted with the following: - 3/4" hardened HIGH WEAR steel snow plow blade to be included

Yes

No

Four wing shoes

Yes

No

One VCL curb shoe

Yes

No

One wing nose piece

Yes

No

SPECIFICATION:

CONFIRMATION

The top edge of the wing shall be welded 100% to the ribs and the moldboards so as to avoid all pockets.

Yes

No

Conspicuity reflective safety tape on wing trip arm and on rear edge of wing.

Yes

No

Wing prepped and painted Imron 5000 Elite SS Medium Gloss Black.

Yes

No

ALL SEASON COMBINATION

DUMP BODY / SPREADER

General

These specifications describe an All Season Combination Dump Body and Sand Spreader. The Dump Box shall remain stationary on the chassis frame while spreading. Rear discharge shall be front hoist tilt action as per conventional dump bodies. The unit will be oval shaped to permit gravity flow unloading. The main conveyor will be centered and recessed along the length of the box. The cross conveyor will be chassis frame mounted with spreader discharge on the front, left side (drivers) of the dump box. The cross conveyor shall be bi-directional.

Body sidewalls shall be smooth rolled one-piece oval shaped, permitting materials to unload by gravity flow into spreading position, no breaks or formed bends in sidewalls permitted.

Yes

No

Water level capacity will be 10.5 cu. yd. min. (13.8 cu. yd. with sideboards)

Yes

No

Outside length 15' minimum.

Yes

No

Inside length 14' minimum.

Yes

No

Overall width 8' maximum.

Yes

No

SPECIFICATION:

CONFIRMATION

Height of sides 45" from conveyor floor.

Yes

No

6" hardwood sideboards painted black.

Yes

No

Height of tailgate 53" from conveyor floor.

Yes

No

Height of sloped front wall panel approx. 53".

Yes

No

Degree of front wall slope

SPECIFY: _____

Top rail of body will be 4" x 4" x 3/8" rectangular tubing.

Yes

No

All body welds will be 100% continuous inside and outside.

Yes

No

Body sides front panel and tailgate will be constructed of 3/16" Cor-Ten "A" corrosion resistant steel.

Yes

No

Conveyor floor will be 1/4" Cor-Ten steel with 3/16" Hardox 450 insert (180,000 – 203,000 P.S.I.)

Yes

No

Aluminum dump box access ladder shall be 16" wide and recessed to be flush with dump body rail and fender, located on driver's side at front of box sloping inward from bottom to top. Ladder to be MTO foldup type.

Yes

No

Access Step inside box (to access from ladder)

Yes

No

SPECIFICATION:

CONFIRMATION

Hoist

Hoist shall be a front mounted three (3) stage telescopic with 5" bore.

Yes

No

Hoist shall be 'NITRATED' Mailhot CS130"-5"-3 stage class 80/30 ton.

Yes

No

Cylinder stroke shall be 330 cm (130") minimum.

Yes

No

Dump box tipping angle shall be 50 degrees.

Yes

No

Heavy duty rear body hinge dia. shall be 2.1/2" minimum with integral rear body prop.

Yes

No

Pintle Hook

H.D. Pintle hook plate and frame reinforcing rated at, or greater than the M.G.T.W specification of a Holland PH 400 Non Air Hook @ 25.5 inches from ground to lower inside saddle of pintle hook C/W 2 safety chain loops Body Builder to switch OEM glad hands with swing away glad hands

Yes

No

Tailgate

Tailgate height shall be 53".

Yes

No

Construction shall be of 3/16" Cor-Ten "A" steel with 3/16" formed cross bracing.

Yes

No

Latch mechanism for the tailgate shall be air trip and latch using two 30/30 air brake pot boosters complete with bolt on brake pot chamber covers

Yes

No

SPECIFICATION:

CONFIRMATION

Air Control in cab with hoist control.

Yes

No

Spreader chains and brackets shall be supplied on tailgate and rear post.
Chains shall be grade 70 coil proof 3/8" minimum.

Yes

No

Coal/lever chute in gate with cantilever handle to curbside of body, adjustable mechanism for gate opening.

Yes

No

Rear corner post mounted wind foils will be supplied.

The wind foils will deflect air over rear facing body lights to help reduce snow build up and improve lighting visibility for rear approaching traffic from.

These assemblies must be designed to fit on the rear corner posts both LH and RH and will be bolt-on replaceable.

Construction will be 10GA 5083 aluminum broke formed steel

Yes

No

High intensity retro reflective vinyl in red tape to match body colour, on tailgate in a Battenberg pattern.

Yes

No

Conveyor

The main conveyor shall be recessed along the length of box floor.

Yes

No

The conveyor chain shall be a minimum of 21,700 lbs. ultimate tensile strength self cleaning pintle chain with 1/2" x 1 1/2" crosses flights welded to every 2nd link (approx. 4.5")

Yes

No

Drive and idler shafts to be 2" diameter and be manufactured from high resistance stress proofed SAMSON 100.

Yes

No

Drive and idler sprockets to be a minimum of eight (8) tooth C1030 cast steel.

Yes

No

The main conveyor shall be close coupled single 25:1 planetary hydraulic direct drive providing a minimum of 34,960 in/lbs. torque working capacity, 50,000 in/lbs intermittent.

Yes

No

SPECIFICATION:

CONFIRMATION

Auto tensioning main conveyor chain, tensioner midpoint of underbody.
Long sills with 2 remote grease fittings each side at front of body,
stainless steel pinned service / inspection panel each side of body on
long sills.

Yes

No

A removable conveyor chain cover will be supplied.

Yes

No

The flow control slide gate between main and cross conveyor shall
be screw adjustable by hand crank from driver's side of dump body
with Teflon slides and calibration sticker.

Yes

No

Hydraulic Positive Drive Belt – Bi Directional Cross Conveyor

The cross conveyor shall be a belt type hydraulic direct drive.

Yes

No

A cross conveyor assembly shall be used to discharge material from
main conveyor to the spinner assembly on the driver's side.

Yes

No

Cross conveyor assembly to mount on chassis frame independent from
and in front of main body.

Yes

No

Cross conveyor shall be removable design to reduce added weight
in non-spreading applications.

Yes

No

Cross conveyor weldment shall be fabricated from a min. of 3/16 "
stainless steel corrosion resistant material

Yes

No

Cross conveyor to be High Speed Race one-piece rubber belt
drive with positive drive lugs on underside in lieu of standard
pintle chain x-conveyor

Yes

No

Note: Rubber belt bolted to x-conveyor pintle chain not acceptable

Belt drive to be BI-DIRECTIONAL with in cab control.

Yes

No

SPECIFICATION:

CONFIRMATION

Cross conveyor assembly to include stainless steel replaceable Guards' front and rear of conveyor table to prevent material from falling onto chassis frame.

Yes

No

Cross conveyor assembly to have stainless steel material sand chute on L.H and R.H. sides and spinner unit on both sides fold down stainless windrow chute and anti-coning device.

Yes

No
with

The x-conveyor belt shall be rated for hot asphalt.

Yes

No

The x-conveyor and main chain shall be guarded with hinged access for cleanout to meet OSHA requirements

Yes

No

Spinner

A polyurethane spinner shall be installed on both sides to spread ahead of wheels, equipped with quick couples. Spinner will be pinned for ease at removal or able to swing up and lock horizontal to frame rails for onboard carrying/storage.

Yes

No

Spinner disc will be hydraulic direct drive.

Yes

No

Spinner height shall be adjustable to accommodate various chassis heights and change cast patterns as well as capable of a discharge rate from 199 lbs / lane mile to 2,500 lbs / lane mile.

Yes

No

Air Tarp

Mesh tarp with 2 outboard air cylinders (1 each side of body)

1½" x 1½"aluminum 'dog legged' tarp arms. SPECIFY: _____

Control in cab with hoist and tailgate control.

Yes

No

Fenders and Flaps

Full length integral steel body fenders shall have continuous welds and be continuous along length of dump body to provide cover for rear wheels and protect body.

Yes

No

SPECIFICATION:

CONFIRMATION

Mud flaps shall be provided fore and aft of rear wheels' frame mounted via full width steel flat bar.

Yes

No

Aluminum pinned body mounted removable fenders over rear tandem axles. Reinforced at bracket bolts to prevent fender from tearing.

Yes

No

Paint

The dump body shall be shot blasted and epoxy zinc. Primed.

Yes

No

Finish paint shall be polyurethane type paint.

Manufacturer: DuPont Imron 5000 Elite SS

Make: Red

Yes

No

Baked Finish: SPECIFY: _____

Conspicuity safety reflective tape on lower body sides and on tailgate.

Yes

No

Lights and Wiring

Body builder wiring module relay boxes must be mounted on inside rear cab wall back of driver's seat; hook-up for all body builder lighting – includes sealed connectors for tail / amber, turn / marker / back-up accessory, power / ground and stop / turn.

Yes

No

Light and wiring kit shall be Grote Ultra Blue Seal only and to include Grote L.E.D., three sets of lights each side, flush mounted with tailgate, Betts junction boxes and wiring. SPECIFY: _____

Betts electrical junction boxes to be mounted at back of cab above frame. (Not at rear of frame/below frame). SPECIFY: _____

2-Nortech 9367 7" LED rubber encased backup lights at rear of frame hooked into O.E.M. reverse switch

Yes

No

SPECIFICATION:

CONFIRMATION

3 sets of LED tail lights shall be mounted in rear side posts.
(Stop/turn/tail/backups)

Yes

No

Programmable SWS beacon light blue/amber
B.O.C. on adjustable pedestal/platform.

Yes

mounted
No

NOTE: Body Builder to Remove and Return Rear Taillights in Cab

Standard corner post lights, Two ALUMINUM Upper MTO light poles
will be supplied, mounted at the top of body with 7 wire trailer plug ins,
upper LED reds, blue strobe drivers side and amber strobe on
passengers side.

Yes

No

The raised detachable light bars will include UPPER REDS: stop, tails
and directional along with Nortech 9367 7" LED encased spot light each pole
lights aimed at ground and hooked to O.E.M. reverse circuit.

Yes

No

L.E.D. Self powered amber and blue strobe at top and
rear corner body posts, switch in cab. **Spare Amber Lens**
shipped loose.

Yes

No

Grote 4" L.E.D. blue and amber strobe at rear of chassis
– in stainless steel boxes

Yes

No frame

NOTE:

**ANY VARIATIONS TO THE SPECIFICATIONS LISTED ABOVE MUST BE APPROVED BY THE
MANAGER, INFRASTRUCTURE AND CAPITAL PROJECTS. PROTOTYPE UNITS WILL NOT
BE ACCEPTABLE.**

\

Please provide pricing OR credit for the following **provisional / optional items**. DO NOT INCLUDE IN TOTAL PRICING on Tender Submission forms. The items below are for information only.

1. Pre wet system for sander including all necessary Components.

Yes

No

Cost: _____

SPECIFICATION:

CONFIRMATION

2. AVL/GPS:- ROADA DCD iii Datalogger - Wifi option / No Cellular(future capable) / Cables and Antenna included - must include Installation and calibration of all sensors with Q/A testing upon delivery.

Cost: _____

3. A Road Watch Temperature sensor Kit Installed connected with Rода dcd

Cost: _____

4. All lights LED

Yes

No

Cost: _____

THE CORPORATION OF THE TOWNSHIP OF ORO-MEDONTE

BID NUMBER:

RFP - OCS 2019-005

FOR: **SUPPLY AND DELIVERY OF THREE (3) 2019 TANDEM PLOW/DUMP
COMBINATION TRUCKS**

THIS BID IS SUBMITTED BY:

NAME OF BIDDER _____

HEAD OFFICE ADDRESS: _____

CITY: _____ POSTAL CODE: _____

PROVINCE: _____ FAX NO: _____

TELEPHONE NO: _____ CELL NO: _____

E-MAIL ADDRESS: _____
(if applicable)

BIDDERS H.S.T. NO: _____

NAME OF AUTHORIZED PERSON(S):

POSITION(S) OF THE PERSON(S):

(print)

(print)

(print)

(print)

To The Corporation of the Township of Oro-Medonte, Hereafter called the "Owner":

I/WE _____ (hereafter called the "Bidder" declare:

1. THAT the Bidder has carefully examined the locality and site of the proposed works, as well as all the Bid Documents (including any Health & Safety Regulations) relating thereto, prepared, submitted and rendered available by the Owner, and hereby acknowledge the same to be part and parcel of any contract to be let for the Work therein described or defined.
2. THAT this Bid Form has not been changed or altered in any way from the original wording.
3. THAT no person(s), firm or corporation other than the one(s) bidding has any interest in this Bid or in the Contract proposed to be undertaken.
4. THAT this Bid is made without any connections, knowledge, comparison of figures or arrangements with any other company, firm or person making a bid for the same work and is in all respects fair and without collusion or fraud.
5. THAT the Bidder represents no member of Council, and no officer or employee of the Owner, is, or has become interested, directly or indirectly, as a contracting party, partner, stockholder, surety or otherwise howsoever in or on the performance of the said contract, or in the supplies, work or business in connection with the said contract, or in any portion of the profits thereof, or of any supplies to be used therein, or in any monies to be derived there from if the Bidder is selected as the successful Bidder.
6. That the Bidder does not have any perceived or actual Conflict of Interest as defined in the Bid in providing a response to this Call for Bid, or in providing the Work under the contract contemplated for the Project, if awarded a contract by the Owner.
7. THAT all representations made in the said Bid are in all respects true accurate and complete.
8. THAT the Bidder hereby bid and offer to enter into a contract to do all the work and to provide all of the labour and to furnish, deliver, place and erect all materials mentioned and described or implied therein including in every case freight, duty, currency exchange, taxes, in effect on the date of the acceptance of bid, and all other charges on the provisions therein set forth and to accept in full payment therefore, in accordance with the prices and terms set forth in the Bid herein.
9. THAT additions or alterations to or deductions from the said Contract, if any, shall be made in accordance with the prices stated in Provisional Items of the Schedule of Unit prices in strict conformity with the requirements of the Contract and all unused monies in Provisional Items shall be deducted from the final cost of the Work and any quantities exceeding those shown will be added.
10. THAT the Bidder agrees to save the Owner, its officers, agents, and/or employees, harmless from liability of any kind for the use of any design, composition, secret process, invention, article or appliance furnished or used in this Bid of which the Bidder is not the patentee, assignee, or licensee.
11. THAT the Bidder acknowledges that, except for any matters specifically disclosed by the Bidder in the Bidder's Bid with respect to the following matters (hereafter called the "Disclosure"):
 - a) The Bidder is not currently the subject of legal proceedings by the Township of Oro-Medonte in respect of Township's Property Standards By-law or Zoning By-laws.
 - b) The Bidder has not been convicted by a court of such a matter set out in (a) above where the contravention remains.
 - c) The Bidder is not a named party in litigation, judicial or arbitral proceedings against or by the Township with respect to any other procurement, contract or business transaction.

The Bidder agrees that its Disclosure, if any, shall provide specific details of the Disclosure. The Bidder further agrees that the Owner shall be entitled at its sole discretion to reject this Bid as a result of any Disclosure.

- 12. THAT if the Bidder withdraws this Bid in contravention of Section 12.1, Document 1, Instructions to Bidder, the Bid Security shall be forfeited to the Owner.
- 13. THAT the awarding of the contract, by the Owner is based on this submission, which shall be an acceptance of this Bid.
- 14. THAT if the Bid is accepted, the Bidder agrees to furnish all documentation, security and certifications as required by the contract document and to execute the agreement in triplicate within Seven (7) Working Days after notification of award. If the Bidder fails to do so, then as in Section 12 above, Bidder's Bid Security shall be forfeited to the Owner and the Owner may accept the next lowest or any bid or advertise for new bids, or carry out completion of the Work in any other way it deems best and the Bidder also agree to pay to the Owner the difference between this Bid and any greater sum which the Owner may expend or incur by reason of such default or failure or by reason of such action as aforesaid on their part, including the cost of any advertisement for new bids, in excess of the Bid Security, and shall indemnify and save harmless the Owner and their officers, agents and/or employees from all loss, damage, cost, charges and expense which they may suffer or be put to by reason of any such default or failure on Bidder's part.
- 15. THAT the Bidder proposes to engage the sub-Contractors and obtain materials and equipment from the Bidders and manufacturers listed in the schedules on the following pages headed "Schedule of sub-Contractors" and "Schedule of Bidders and Manufacturers".
- 16. THAT the Bidder agrees to adhere to the Accessibility for Ontarians with Disability Act 2005 and all Occupational Health and Safety standards and requirements as set out within the Occupational Health and Safety and the Safety Standards Sections of the Bid Document.
- 17. THAT **Addendum/Addenda** from Addendum No. _ to Addendum No _ inclusive relating to the said Bid have been received and the Bidder hereby accepts and agrees to the same as forming part of the said Bid said Contract.
- 18. THAT I/WE understand the Pricing shall be announced as stated in Item 19.
- 19. **THAT THE BIDDER ACKNOWLEDGES THE TOTAL BID PRICE TO COMPLETE THE PROJECT EXCLUDING HST SHALL BE:**

_____ DOLLARS (\$ _____)

 in lawful money of Canada.

20. **THAT the undersigned affirms, that the undersigned is duly authorized to complete this Bid by signing it.**

LEGAL NAME OF BIDDER: _____

SIGNATURE: _____
 (I have authority to bind the Bidder)

DATED AT THE _____
 (City/Town)

THIS _____ **DAY OF** _____ **20** _____.

IF BIDDER IS A SOLE PROPRIETORSHIP, JOINT VENTURE OR PARTNERSHIP, REFER TO THE DEFINITION OF AUTHORIZED PERSON AND SIGN AS APPLICABLE AND ADD ADDITIONAL SIGNATURE PAGES IF NECESSARY.

SCHEDULE I

ITEMS AND UNIT PRICES

I/We the undersigned do hereby agree to supply to the Township of Oro-Medonte with, THREE (3) 2019 tandem plow/dump combination trucks accordance with the attached Specifications, for the following price, FOB 148 Line 7 South, Oro-Medonte, ON, L0L 2E0.

Price shall be submitted in Canadian funds.

MODEL YEAR: _____ MAKE: _____ MODEL: _____

DESCRIPTION	QUANTITY	PRICE PER UNIT	EXTENDED PRICE
2019 tandem plow/dump combination trucks	3	\$	\$
	Subtotal	\$	\$
	HST	\$	\$
	Total	\$	\$

DELIVERY DATE

Delivery of the vehicle/equipment identified within this Request for Proposal is preferred no later than **OCT 15, 2019**. Preference will be given to submissions that are able to meet this delivery date.

Proponents unable to meet this delivery date, shall specify the date that the equipment/vehicle will be delivered to the Township of Oro-Medonte below.

PROPOSED EQUIPMENT/VEHICLE DELIVERY DATE: _____

Time shall be the essence of the contract. Equipment/vehicles shall be delivered on the proposed delivery date identified, failing which the Township reserves the right to cancel the order without penalty or prejudice or apply a late delivery penalty of \$300.00 per day for every day past the proposed delivery date

PROPONENT SIGNATURE: _____

The Bidder hereby bids and offers to enter into the Contract referred to and to supply and do all or any part of the Work which is set out or called for in this Bid, at the unit prices, and/or lump sums, hereinafter stated. The Bid amount shall include all costs incurred, excluding

H.S.T.

The Bidder also understand and accepts that the quantities shown in the Bid Documents are approximate estimates only and are subject to increase, decrease or deletion entirely if found not to be required.

NEGOTIATIONS

The Township may award the contract on the basis of the tenders received, without discussion. Each tender should therefore contain the Bidder's best terms and complete detailed information.

The Township reserves the right to enter in to negotiations with any selected Bidder(s). If the Township and the selected Bidder(s) cannot negotiate a successful agreement, the Township may terminate the negotiations and begin negotiations with the next selected Bidder(s). This process will continue until an agreement has been executed or all of the Bidder(s) have been rejected. No Bidder shall have rights against the Township arising from negotiations.

PROPOSAL SELECTION COMMITTEE & PROCESS

The Proposal Selection Committee, may consist of, but not necessarily be limited to, representatives from the Township's Operations Department, and other technical representatives retained at the Township's sole discretion.

The Proposal Selection Committee shall not be obliged to disclose the detailed evaluation scores of a Proponent other than to that Proponent whose score it is. Proponents will be afforded the opportunity to request a private debriefing meeting to discuss their respective evaluation scores. In the absence of manifest bad faith any evaluation carried out by the Proposal Selection Committee shall be considered to be fair and accurate to all Proponents for all purposes and shall not be subject to review by any court or tribunal.

If the Proposal contents, all requested documents and securities, are enclosed and found to be satisfactory then members of the Selection Committee will receive a copy of each Proposal for review. The Selection Committee will score each Proposal in accordance with the following evaluation criteria.

EVALUATION CRITERIA & SCORING

The evaluation criteria and weighting to be applied in the evaluation of each Proposal consists of the following:

Evaluation Criteria	Points
Proposed Price – Financial Proposal	30
Delivery Date	20
Ability to meet stated specifications	30
Fuel Consumption (L/100kms) Canada	10
Location of service facilities	20
Total Points Available	110

The highest total score will be first considered as a potential Successful Proponent

FINANCIAL EVALUATION AND SCORING

The Financial Evaluation and weighting to be applied in the evaluation of each price Proposal consists of a total of a possible 30 points.

The Financial Evaluation will be applied as follows:

- a) The Proposal(s) with the lowest cost will be assigned 100% of the 30 point score.
- b) The financial evaluation score of every other Proponent will equal 30 points X (the lowest price submission ÷ cost of the other Proposal under consideration).