

1. One (1) only 6 Ton Tandem Axle Truck

MAKE: _____

MODEL: _____

YEAR: _____

PRICE: \$ _____

2. One (1) only Combination Dump Body/Spreader with two (2) way tail gate (with barn door)

MAKE: _____

MODEL: _____

PRICE: \$ _____

3. One (1) only Snowplow, Harness and Cable All Hydraulic Wing

MAKE: _____

MODEL: _____

PRICE: \$ _____

4. Trade in one (1) Tandem Axle Truck

Credit for trade in 1993 Ford LT9000 with 4 seasons dump box \$ _____

And plow equipment

TOTAL BID (Items 1, 2 and 3) \$ _____

Minus Trade In - \$ _____

GST \$ _____

PST \$ _____

A/C TAX \$ _____

TOTAL PRICE \$ _____

Total price tendered for delivery to: Township of Whitewater Region

Public Works Department

1798 Westmeath Road

Westmeath, ON

K0J 2L0

DATE: _____

FIRM NAME: _____

AUTHORIZED SIGNATURE

PRINTED NAME OF SIGNING OFFICER

GENERAL INFORMATION BIDDERS

These specifications describe a 6 ton diesel powered tandem axle truck equipped with a combination dump body/spreader, snowplow and all hydraulic wings. The unit will be used for hauling sand and gravel in the summer and snowplowing, salting and sanding in the winter.

1. The Township of Whitewater Region will accept tenders until 1:00 pm, July 23, 2010.
2. Township of Whitewater forms must be used.
3. Failure to complete the tender and specifications will render the tender unacceptable.
4. Appropriate manufacturer's literature must be submitted with tender.
5. Only offers will be accepted from firms or companies within a 150 km radius of The Township of Whitewater Region.
6. Lowest or any tender not necessarily accepted.
7. The tender price shall be firm on delivery and any price escalation clause shall render the tender unacceptable.
8. Vehicles for which tenders are submitted shall conform to the latest laws, rules and regulations for the Province of Ontario and all relevant requirements of the Canadian Motor Vehicle Safety Standards at the date of vehicle and equipment manufacture.
9. Bids may not be considered if:
 - a) The product on which the price is submitted does not meet all the requirements of specification; or,
 - b) The bidder does not conform compliance with all items of the specification by marking "YES" in the confirmation column for all the required items and providing the required information where "SPECIFY" is noted on the confirmation.
10. A penalty of \$300.00 per day will be considered if the vehicle is not received by the Township of Whitewater Region on or before the required date. The decision as to the assessment of a penalty shall be that of the Township of Whitewater Region Council. The decisions shall be final. This shall be in addition to any other remedies to which the Township may avail itself.

SPECIFICATION AND CONFIRMATION
CAB AND CHASSIS – DIESEL TANDEM
27,216KG/60,000 LBS. G.W.V.

SPECIFICATION

CONFIRMATION

1. **MAKE AND MODEL:**

The following are the approved makes and models, which comply with this specification. Any changes must be approved by Township of Whitewater Region.

MAKE

MODEL

Volvo WG

International

Western Star

Freightliner

Mack

Must be factory wired for Two-way radio

Specify make and model of unit being tendered:

7600SBA (6x4)

4900SA

M212

SPECIFY:

MAKE:

MODEL:

YEAR:

2. **CMVSA:**

Vehicles shall meet or surpass the mandatory Requirements of the *Canada Motor Vehicle Safety Act* and it's regulations in effect on the date Manufactured and the vehicle must bear the National Safety Mark.

YES:

3. **GROSS WEIGHT RATINGS:**

G.V.W.R. 27,216 kg (60,000 lbs.) Minimum

SPECIFY:

G.A.W.R. front – 9,072 kg (20,000 lbs.) Minimum

SPECIFY:

G.A.W.R. rear – 18,144 kg (46,000 lb) Minimum

SPECIFY:

The allowable G.V.W.R. as supplied shall be shown

YES:

On a metal or Mylar tag.

4. **AXLES:**

Front axle shall be 9, 072 kg (20, 000 lbs.) Capacity

SPECIFY:

A set back front axle shall be supplied

SPECIFY:

Rear Tandem axles shall be 18, 144 kg (46,000 lb 23,000lb each.)

SPECIFY:

Capacity minimum, dual drive with inter-axle

MODEL:

Differential and driver controlled inter-axle Different lockout	CAPACITY:
Rear tandem axles shall be single speed with 1471 mm (55") spread	YES:
A three (3) wheel lockup system operated from the cab shall be supplied	YES
Following is a list of approved axles	
Eaton DS-402 4:11:1	SPECIFY:
Spicer J400S 4:10:1	MAKE:
Rockwell RT-40-145P 4:10:1	MODEL:
Road speed in top gear at governed RPM shall be 100 KM/H (62 MPH) minimum	SPECIFY TOP GEAR SPEED:
Power Steering shall be supplied	YES
5. <u>BRAKES:</u>	
Service brakes – full air brakes “S” Can drum type shall be supplied	YES
Front brakes size 406 mm x 152 mm (15” x 6”) or 419 mm x 127 mm (16.5” x 5”) drum type, Minimum shall be supplied	SPECIFY:
Rear brakes size 419 mm x 177 mm (16 ½” x 7”) minimum shall be supplied	SPECIFY:
Dust shields front and rear shall be supplied	YES
Positive rear wheel spring loaded parking brake, air reservoir and instrument panel control switch shall be supplied.	YES
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 reservoir	YES
A manual front wheel limiting valve or automatic proportioning front wheel limiting valve shall be supplied	YES SPECIFY TYPE:
Low air pressure indicator shall be supplied.	YES
Automatic drain valve shall be supplied with heater to drain moisture from the main air tank mounted in a safe manner (BW-DV-2 value or approved equivalent)	YES SPECIFY MAKE:
Air dryer – Bendix AD-9 with heater or equivalent shall be supplied	YES
Berg pull-cord drain valves shall be supplied	YES

Protection boots for both front and rear air chamber Push rods shall be supplied	YES
Asbestos-free brake lining shall be supplied	YES
Automatic slack adjusters shall be supplied	YES
All wheels will have travel indicators to check brake travel	YES
Must be Plumed with air and lighting to be used to pull a tag along	YES
Air compresses – 6.23 I/s (13.2 cfm) minimum Complete with all necessary tanks, gauges and safety valves	YES

6. FRAME

Section modules shall be 29.8 in (3) minimum	SPECIFY:
Frame yield strength shall be 120,000 psi minimum	SPECIFY:
RBM shall be 3, 500, 000 lbs. in minimum	SPECIFY:
Specify Frame dimensions. (Depth x Width x Thickness)	SPECIFY:
The after frame (AF) dimensions shall be a Minimum of 63”	SPECIFY:
Specify dimensions of reinforcement if equipped	SPECIFY:
Mounting of snowplow cheek plates shall be possible	YES
Provision shall be supplied to prevent diamond shaping of the frame. The frame shall be bridged, or a cross member shall be supplied within ten inches of the rear of the cab in order to transfer snowplow wing push to each frame rail. This cross member shall be gusseted fore and aft .	YES

7. SUSPENSION

C.A. shall be 3453 mm (136”) approximately	SPECIFY:
Wheel base shall be 500 mm (200”) approximately	SPECIFY:
Front spring capacity at the ground 4,536 kg (10,000 lbs.) each 20,000 lbs. total min.	SPECIFY:
Front shock absorbers shall be supplied. Front spring capacity at the ground 4, 536 kg (10,000 lbs.) each 20,000 lbs. total	YES SPECIFY:
Air Ride Suspension : Hendrickson HAS-460 or approved equivalent Shall be 46,000 lb 23,000lb each . Gravel truck equivalent	SPECIFY: SPECIFY:

Truck front suspension rubber spring kit, aeon type, double convolution SPECIFY:

8. WHEELS AND TIRES

Two (2) front first line steel belted radial tubeless type tires 425/65R 22.5 load range “L” shall be supplied YES SPECIFY SIZE: LOAD RANGE:

Eight (8) rear first line steel belted radial tubeless type tires 11.00 R 22.5 – load range “H” shall be supplied.(Dual Wheels) YES SPECIFY SIZE: LOAD RANGE:

Tread Design YES
Front – Standard Highway tread SPECIFY MAKE:
Acceptable tires: Goodyear Unisteel G291
Michelin YZA
Bridgestone Vsteel M711

Rear YES
Acceptable tires: Goodyear Unisteel TD SPECIFY MAKE:
Goodyear Unisteel GI 24
Micheline XM + S4
Bridgestone V-Steel M711

Two (2) disc wheel rims 571 mm x 312 mm (22.5 x 12.25) hub YES
Piloted disc flange nut

Eight (8) wheel rims 571 mm x 312 mm (22.5 x 8.25) hub shall YES
l be supplied. Piloted flange nut

The rims must have a load capacity and pressure rating YES
Equal to or exceeding the ratings of the tires. SPECIFY PRESSURE RATING:
FRONT:
REAR:

Drop centre rims shall be supplied YES

Steel hubs shall be supplied YES

9. ENGINE:

10. YES

Water cooled, in-line, four stroke, six cylinder or
engine type must be approved

350 CAT (High Torque), SERIES 60 DETROIT 425,
Mack NP8, Volvo D13, CUMMINS ISM, Maxxfores 13

Engine displacement – 12 litres (733 cubic inches) minimum SPECIFY

Engine gross power 370 Min. SPECIFY H.P.:

The Cummins engine oil pan shall be protected from corrosion by a rust proof coating YES

Splash guards shall be supplied to protect engine compartment from road spray YES

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

10A. TRANSMISSION:

Shall be thirteen (13) speeds forward single stick type and two (2) reversers YES

Approved transmission: Fuller RTL 149-13A YES

The bell housing shall be cast iron YES

10B. CLUTCH:

Heavy duty – 355 (15”) diameter YES
Dual plate ceramic button type shall be supplied.

11. ENGINE EQUIPMENT:

Key on/ Key off engine control shall be supplied YES

Alternator – shall be 145-amp. capacity, minimum, with built in diode rectifiers, and shielded slip ring and brushed or be brushless SPECIFY MAKE:
MODEL:
NORMAL CAPACITY:

The alternator capacity at idle shall be at least 25 amperes IDLE CAPACITY:

Battery- Maintenance free batteries shall be provided YES

The SAE rating shall be combined 12 Volt,1850 C.C.A minimum SPECIFY C.C.A:

The **batteries** to be mounted behind the cab, they shall be on the **right hand side** and be easily accessible for service YES

Governor – engine governor built-in type YES

High temperature and low oil pressure engine protection alarm bell or buzz device shall be installed (Automatic engine shut down not acceptable) YES

A heavy duty two stage dry type air cleaner, shall be supplied YES
SPECIFY TYPE:

Oil filter – full flow type with bypass filter shall be supplied YES

A heavy duty fuel water separator with heater and sight glass shall be supplied, (Conmet CM-99-327D or approved equal), mounted outside left frame rail behind cab YES

An automatic temperature controlled on/off fan clutches shall be supplied YES

Anti-freeze to -40 degrees Celsius shall be supplied YES

For snowplowing purposes, a minimum 88 mm (3 ½”) diameter opening through the radiator shall be provided centered with the crankshaft of the engine to allow adequate clearance of the PTO shaft. Crankshaft shall be provided with an adapter for PTO drive YES

NOTE: Where a crankshaft is located low enough to allow the front mounted pump to operate with sufficient clearance below the radiator, the 88 mm (3 ½”) opening in the radiator is not required

Exhaust: The muffler shall be vertical, if possible. If the muffler is horizontal, it shall have 500 mm/15” ground clearance and the exhaust pipe shall be vertical. The whole installation shall not interfere with the mounting of a snow plow wing tower SPECIFY:

Corrosion resistor (spin on water filter) for engine coolant shall be supplied YES

Engine hood shall be butterfly type with adequate side access panels to allow easy engine access YES

12. CAB:

Conventional cab shall be supplied YES

Engine hood shall be forward tilting with adequate hatches to provide easy engine access SPECIFY

Seats-separate air suspension driver and passenger seats shall be supplied YES

The drivers seat shall be a “National Premium Series”
The passengers seat shall be fully padded, heavy duty cloth upholstery construction, foam rubber seat cushions, high back, adjustable fore and aft YES

Dual sun visors shall be supplied YES

Windshield wipers – dual, two speed electric, intermittent feature and electric washer pump shall be supplied YES

Air conditioning shall be supplied	YES
Tachometer shall be supplied	YES
Thermometer for outside temp. shall be supplied	YES
An hour meter either an electronic type or with anti-vibration mount – Hobbs –3888 Dampener or equal mounted inside cab shall be supplied	YES
Seat Belts – two three point with retractors shall be supplied	YES
Rubber floor mat shall be supplied	YES
Mirrors – two outside 177 mm x 406 mm (7” x 16”) West Coast type mirrors complete with built in heaters and clearance lights shall be supplied	YES
Rain gutters or drip moldings shall be supplied	YES
Dual air horn with snow shields shall be supplied	YES
Arm rests shall be supplied	YES
Supplementary cab insulation to suppress engine noise shall be supplied	YES
AM/FM Radio (Electronic with clock), shall be supplied	YES
12 V power point shall be supplied	YES
International Diamond Logic or equivalent wiring	YES
Power operated passenger side window with a switch accessible by the driver and passenger	YES
Lower and intermediate foot steps, both sides, shall be supplied	YES
A terminal panel shall be incorporated into the wiring system to access the following wiring circuits to add additional lighting for the body installation: left, right turn, parking lights, back up lights, independent brake light	YES SPECIFY LOCATION:
The terminal panel shall be located inside the cab preferably on the rear cab panel	SPECIFY:

13. FUEL TANK

A 363 litre (80 gallons) minimum step tank mounted on the left side shall be provided. Dual Tanks are not acceptable. Minimum	YES SPECIFY
---	----------------

clearance from ground shall be 305 mm (12") CAPACITY TYPE:

The fuel tank shall not extend beyond cab more than 15 cm (6") or interfere with the installation of box equipment YES

Fuel gauge shall be supplied YES

14. LIGHTS

Two fender mounted, 100 mm (4") diameter amber directional lights, facing front, shall be supplied YES

Rear red directional lights shall be supplied YES

Stop light shall be supplied YES

Five cab identification lights shall be supplied YES

Four-way flasher shall be supplied YES

Back-up lights shall be supplied YES

Halogen head lights shall be supplied YES

Large flashing strobe lights (2) on a pedestal (not cab shield) mounted. One blue one amber Lenz Switched separately YES

15. PAINT:

The truck shall be painted Wheatland yellow Dupont 3361/ Federal 13432 or equivalent YES

PAINT:

The frame shall be sand blasted and epoxy primed, before the paint is applied

*The frame shall be painted with anti-corrosive epoxy primer, minimum 3.5 mil dry film thickness meeting M.T.O. Spec 0914-9A

*All attaching parts and welds shall be primed with Epoxy Primer before painting
The frame a final coat of black.

NOTE: THE PAINTING PROCEDURE AND APPLICATION WILL BE VARIFIED TO THE PUBLIC WORKS SUPERVISOR AND ACCEPTED BY THE PUBLIC WORKS SUPERVISOR BEFORE DELIVERY OF UNIT WILL BE ACCEPTED AND ANY PAYMENT MADE

16. ATTACHMENTS:

Fitted with a Pavement Eadger Operator's manual and line ticket shall be supplied YES

Parts manual shall be supplied and Work shop repair manual	YES
Back up sound alarm shall be supplied	YES
A flare kit shall be supplied	YES
Fire extinguishers shall be supplied	YES

17. WARRANTY

The truck shall be covered by A thee year manufacturer’s warranty, a description of which shall be included with the tender documents	YES
--	-----

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

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. Tendered units must comply with the following specifications in all aspects. Alternative components which meet the requirements of this specification but are not identified in the specification must be approved by the Public Works Supervisor prior to tender closing	YES
---	-----

NOTE:

It will be the responsibility of the supplier to obtain any M.T.O. standards
referred to in the foregoing specifications

Vehicle shall be supplied with a valid preventative Maintenance/Compulsory Vehicle Inspection (PMCVI) sticker	YES
---	-----

18. DELIVERY OF THE COMPLETE UNIT SHALL BE ON OR BEFORE:

NOTE: A penalty of \$300.00 per day will be considered if the vehicle is not received by the
Township of Whitewater Region before the above noted date. The decision as to the assessment of a
penalty shall be that of the Township of Whitewater Region Council. The decision shall be final.
This shall be in addition to any other remedies to which the Township may avail itself.

Date

Signature of Bidder

SPECIFICATION

FRAME

Frame shall be Sufficient to properly handle all added equipment and have a warranty of no less than three years for cracking, breaking or distortion.

19. GREASE FITTINGS:

Shall have installed GROENEVELD automatic greasing system YES
And shall include slack adjuster clevis pins

20. WELDING:

All welds shall be continuous type and, shall not permit any moisture to be trapped in the joints YES

21. PAINT:

The body and frame shall be sand blasted and epoxy primed, before the paint is applied

***The body and frame shall be painted with anti-corrosive epoxy primer, minimum 3.5 mil dry film thickness meeting M.T.O. Spec 0914-9A (includes the inside of the body)**

The body shall be painted a final coat of yellow and the frame a final coat of black.

The yellow paint shall be Dupont 3361/ Federal 13432 or equivalent YES
(Wheatlands Yellow)

NOTE: THE PAINTING PROCEDURE AND APPLICATION WILL BE VARIFIED TO THE PUBLIC WORKS SUPERVISOR AND ACCEPTED BY THE PUBLIC WORKS SUPERVISOR BEFORE DELIVERY OF UNIT WILL BE ACCEPTED AND ANY PAYMENT MADE

**FULL HYDRAULIC SNOW PLOW
CONTROL BOX AND WING TOWER**

SPECIFICATION

CONFIRMATION

The control box shall contain 7 double acting valves to operate:

Plow Lift	Wing Brace
Front Wing	Tilt Harness
Rear Wing	Optional Rev. Plow

One single acting valve to operate box hoist. SPECIFY TOTAL: _____

Valves to be featherable air operated with flow controls installed at valve bank	YES
Air lever controls.	YES

The controls from left to right, when viewed from the operator's seat, shall operate the following:

- | | |
|----------------------|-----|
| 1. Plow Lift | |
| 2. Front end of wing | YES |
| 3. Rear end of wing | |
| 4. Wing braces | |
| 5. Tilt harness | |
| 6. Opt. Rev. Plow | |
| 7. Side Tipper | |

A reservoir of adequate capacity shall be supplied but must not interfere with the operation of the box. Valves shall be installed on outlet lines at the reservoir.	YES
--	-----

The control box shall be painted black.	YES
---	-----

Bottom of wing tower shall be protected by shoe, and shall have a ground clearance of 14" minimum, truck empty.	YES
---	-----

The spacing of the holes in the slides for connecting the wing braces shall be approximately 17".	YES
---	-----

Approved size of ram controlling the front end of wing shall be 3" diameter X 30" stroke approximately with a cable and sheave assembly.	YES
--	-----

Approved size of ram controlling the rear end of wing shall be 3" diameter X 30" stroke approximately and shall be double acting.	YES
---	-----

Sealed beam wing light shall be provided.	
Wing tower shall be painted black.	YES

**Removable Type Front Wing Tower and one way frame work
 (one way, front wing post and wing must detach as one unit with four pins,
 and be detachable in less than 20 minuets as a unit.) Larochelle Part #
 L1925ONT Viking Part # VCL 120 HSE 9, DLP part # 12-2654D**

The wing tower shall be of an open design.	SPECIFY: MAKE: MODEL:
The wing tower shall be of a heavy construction and bolted to the right side of the truck chassis.	YES
To provide additional support the oil reservoir and the other welded to the brace box.	YES
The oil reservoir shall be connected at the top to the rear post through two 4 x 4 x 3/8" angles.	YES
The bottom of the oil reservoir shall also incorporate two 4 x 3 x 3.8" angles one welded to the oil reservoir and the other welded to the brace box.	YES
Hydraulic hoses shall connect the rams of the tower with the valves in the control box. Hoses shall be two ply braided steel, SAE100R2 with swivels on both ends.	YES
All sheave pins shall be provided with oil impregnated bronze bearings and grease fitting.	YES
A safety chain shall be provided for securing wing when not in use	YES
Guide bars to contain the rear wing slide shall be welded 100% from the bottom up 2 feet.	YES
Double flashing strobe light (#200AD) blue and amber lens, mounted on pedestal behind cab. Switched separately	YES
Parts manual shall be supplied with each unit.	YES
A workshop repair manual shall be supplied	YES

**SNOW PLOW EQUIPMENT
9' ONE WAY SNOW PLOW**

**VIKING VCL 120 HSE 9 13ft 10in, LAROCHELLE SU9R3054,
DLP Model NEI 4011 DY**

This one way snow plow shall conform with the provisions of M.T.O. standards ES-414, except that the dimensions of this specifications shall prevail when the two contradict.	YES
The plow shall operate effectively and without modifications with the M.T.O. snow-plow truck harness ES-401.	YES

The weight of the plow shall range from 2,100 to 2,300 lbs and shall be constructed to prevent the accumulation of water in any area.	YES
The plow shall have a hood extending 18" past the vertical centre line, in normal operating positions.	YES
The thickness of the moldboard and hood shall be of 10 U.S.S. ga. (.1345)	YES
The moldboard shall be pivoted to allow tilting in different positions.	YES
The swivel shall have a grease point at the bolt connecting the two halves	YES
The moldboard brace rod shall be adjustable for plow angles of 45 degree, 50 degree and 55 degree.	YES
Male end of adjusting brace assembly to be solid steel, or steel tube	YES
Both male and female ends shall have 5/8" mounting pins.	YES
The female end shall be at the top to prevent the accumulation of water.	YES
Holes in drive bars for push frame shall be 1 1/4" diameter.	YES
The distance from the center line of the holes to the end of the drive bar shall be 1 1/2".	YES
The height of the moldboard at the top of curve shall be as follows:	
Intake: 26 inches (65 cm.) min	SPECIFY:
Discharge:54 inches (1.2 meters) min	SPECIFY:
The overall length shall be 14' – 4" minimum	SPECIFY:
The plow shall be fitted with two shoes as per M.T.O. ES-508.	YES
The moldboard shall be designed for use with M.T.O. cutting edge ES-505 and with the M.T.O. standard nose piece ES-507. The cutting edge and nose piece shall be supplied. Cutting edge to be carbide	YES
Moldboard shall have a total bearing area (pin dia. times web thickness times number of webs involved) or 4 1/2" square inches minimum at the point where the drive links attach.	YES
Two separate lift chains shall be used and these shall pick up on the drive frame at points approximately 48" apart.	YES
These lift chains shall be 3/8" dia. minimum.	YES
The height of the shoes shall be adjustable as shown on M.T.O. ES-521. Height adjustable one way snow plow shoe holder.	YES
The shoes shall oscillate.	YES

The moldboard shall be formed in the shape of a smooth curve.	YES
The horizontal distance from the discharge end of the plow blade to the discharge end of the moldboard shall be 24” minimum.	YES
A sturdy eye ½” thickness shall be provided at the centre of gravity for handling of the moldboard.	YES
The design and quality shall meet M.T.O requirements.	YES
The complete snow plow unity shall be black as per M.T.O. ES-301	YES
A spare parts manual shall be supplied	YES
A workshop repair manual shall be supplied	YES
A signed manufacturer’s warranty shall be supplied.	YES

TANDEM DRY MODE FRONT MOUNT HYDRAULIC PUMP

<u>Specification:</u>	<u>Confirmation:</u>
1. The hydraulic pump supplied shall be a Tyrone Model VDVTP 16150180AFJ Tandem Dry Mode with air shift.	SPECIFY: MODEL: MAKE:
2. The first stage shall produce 29.2 G.P.M at 2,000 R.P.M and 1,200 P.S.I	YES
3. The second stage shall produce 29.2 G.P.M. at 2,000 R.P.M. and 1,200 P.S.I	YES
4. Pump mounting plate and splined drive shaft shall be supplied	YES
5. The pump shall be driven from the crankshaft.	YES
6. The pump shall have a manufacturer’s R.P.M. rating equivalent or higher than that of the truck engine at governed speed.	YES
7. Hydraulic hoses to connect pump shall be supplied. Their size shall be adequate for quick operation of all hydraulic operations and shall be ply braided steel SAE100RS, with swivels on both ends.	YES
8. The drive shaft shall be supplied with spline long enough to allow telescopic retraction of the shaft in order to change fan belt without removing the pump.	YES
9. The hydraulic system must be set up so all other hydraulic functions do not “rob” the sander equipment.	YES
10. A parts manual shall be supplied with each unit.	YES

QUICK ATTACH SNOW-PLOW TRUCK HARNESS WITH HYDRAULIC TILT

The harness must be Quick attachable as one unit; with one way, front wing post and wing, removable with four pins(or less) and in less than twenty minutes (rear wing post stays on the truck)
LAROCHELLE PART# L19250NT, VIKING PART # VCL 500 HD, EPL 3 Series

(with manual quick attach pockets and drop pins for one way quick attach)

1. The design and construction of the truck harness shall be in compliance with M.T.O. standard ES-401, or be of equivalent design approved by M.T.O. YES
2. The harness shall be mounted at the front end of the frame and shall be bolted to the cheek plate. YES
3. The lifting frame shall be bolted to the push plate and shall be braced to conform to M.T.O. standards. YES
4. Lifting Ram Diameter – 4” D.A. minimum. SPECIFY:
5. Lifting Ram Stroke – shall be 10” minimum. SPECIFY:
6. The cylinder rod shall be fully chrome plated. YES
7. Lift of grab link for nose chain shall be 18” minimum. YES
8. Drive ears shall be 30 ½” centre to centre. YES
9. Height to lower drive connection shall be 19” when mounted, truck empty. YES
10. Cheek Plates to match truck frame shall be supplied and shall be compatible for plow. YES
11. Three grab links shall be supplied. YES
12. Two sealed beams Halogen type headlamps, with high and low beam shall be supplied. YES
13. Spacing and height of headlamps shall be in compliance with ES-401. YES
14. Two turn signals shall be installed in the location shown in ES-401 and the wires from the truck turn signal shall be connected to these lights. These wires shall be well protected in looms. YES
15. The plow lights and signals shall be equipped with “Quick-Tack” ends So that wires can be easily disconnected when harness is detached. YES
16. All hydraulic hoses and wiring shall be adequately supported to ensure wear and sag is completely eliminated. YES

FOUR SEASONS SPREADER/DUMP BODY REQUIREMENTS

**MG QS-130-HD, LAROCHELLE BER1339, ELP 320 Plus
STEEL STRENGTH hardox 450 brinell rating 425to 475**

1) **DIMENSIONS**

Body Length overall		Specify _____
Body Length inside	14'	Specify _____
Width – outside	98''	Specify _____
Width – inside	86''	Specify _____
Height – front	52''	Specify _____
Height - Rear	58''	Specify _____.
Height of sides	40''	Specify _____
The body shall fit on 126'' C.A. maximum		Specify _____
The rear hinge will be welded to the frame		YES ___NO ___

2) **CAPACITY**

The hoist shall be capable of lifting the box and the normal contents of sand plus 20%.		YES
Hoist shall be operated by in cab feather air control.		YES
Hoist shall be a three stage front telescopic with a minimum of 125'' total stroke.		SPECIFY:
Hoist cylinder running surface shall be Nitride.		YES:
State side tilt angle.	38 degrees	SPECIFY:
State rear dump angle	50 degrees	SPECIFY:
State hoist capacity	30 Ton	SPECIFY:

Ladder:

Must be able to enter the box; via ladder from the ground on the left side front. (lower section must fold or slide up so as to be out of the way during normal operations. Two steps must be installed		YES
--	--	-----

inside the box to Allow access to the outer ladder .

Conversion from sanding mode to dump mode shall be controlled from inside the cab by feather air control. YES

The side lift will be made possible by the use of two double acting cylinders. YES

Side lift cylinders shall have Nitride piston rods. YES

For easy maintenance, the side tilt hinge shall consist of 4 only heavy duty bolt on hinge blocks with individual grease fittings with remotes so that they can be greased standing beside the box YES

3) **TAILGATE**

The tailgate shall be double acting air, and also swing to the right side manually and be able to be locked in the open position for dumping. YES

The tailgate shall be continuously welded with Barn type opening YES

The tailgate for tandem bodies shall be reinforced with vertical 100% welded box members. YES

There shall be a wiper at the front, so as not to allow spillage of salt or sand when the body is raised or lowered from spreading operation. YES

4) **SPREADER CHAINS AND BRACKETS**

3/8 spreader chains and required brackets shall be installed. **No quick attach links** YES

5) **SPLASH GUARDS**

Two pair of splash guards shall be supplied and installed YES

6) **LOAD COVER TIE DOWNS**

Provisions shall be made for the installation of a load covering tarpaulin. HD mesh fabric. YES

Air tarpaulin with air cylinder mounted between frame rails to be supplied and cab control. YES

7) **LIGHTS AND WIRING**

Lights and wiring shall be completely sealed with corrosion and vapor proof lamps and junction box. YES

All lights and wiring shall be supplied. YES

Raised rear tail lights shall be supplied.

Lights are to be easily detachable and shall include tail lights, signal & brake lights, one each amber& blue flashing and one backup light. 3 lights per side YES

Stop, tail, turn and backup lights installed in rear corner posts, 3 lights per side YES

8) **HYDRAULICS**

The body operation shall be powered by the existing hydraulics of the snow-plow truck harness YES

All fittings, valves, hoses and drive shaft shall be supplied and installed. All hoses shall be equipped and swivels on both ends. YES

The hydraulic reservoir shall be of sufficient capacity to supply necessary oil supply. Reservoir must NOT interfere with the box installation. YES

A sight gauge to allow easy checking of the hydraulic oil level in the reservoir shall be supplied. YES

Low oil alarm with in cab buzzer YES

Eternal OIL FILTER spin on type on the return line at the tank YES

9) **CONVEYOR**

The main conveyor shall be installed in the body at floor level running longitudinally along the driver's side the full length of the body and be self cleaning, with nylon wear strips min. on the return portion track. YES

The outlet shall be located at the left front corner of the body. YES

For safety, the conveyor at the outlet point shall be fully enclosed at the sides and front. YES

There shall be a screened hinged top access cover with fastener over discharge to chute. YES

The main conveyor shall be driven by a hydraulic motor through a 25:1 speed reducer with sufficient torque to discharge sand and salt through the control gate to the spinner. YES

The speed reducer shall have a bronze gear. YES

A conveyor shield shall be supplied to protect the conveyor chain when the spreader is not in operation.	YES
The conveyor shield shall be held rigid against the side of the body by means of a lock and hinge assembly when the spreader is in operation.	YES
The conveyor shall be approximately 17 ½” wide.	SPECIFY WIDTH:
All conveyor flights shall be 100% welded.	YES
The tension of the conveyor chain shall be controlled by two grease activated rams. It shall be possible to adjust the tension of the chain without the use of wrenches and there shall be no threaded rod or lock type nuts in the MECHANISM.	YES
Access to conveyor adjustment mechanism shall be from the side of the body and there shall be no access hatches or openings to work through.	YES

10) **SPINNER**

The spinner shall be driven by a hydraulic motor and the spinner assembly shall be mounted directly ahead of the left rear wheels, just behind the cab.	YES
The spinner height shall be adjustable from 20” to 28” below the mounting surface of the body.	YES
The spinner shall be capable of spreading evenly up to a 20’ radius with a main operating range of 0 to 15’ radius.	YES
Hoses to the spinner motor are to be complete with quick disconnect automatic sealing break-away couplers are so arranged that the male end may plug into the female end on the spinner motor and the hoist frame with hoses are disconnected.	YES
Hydraulic system to be complete with in-line filter installed between the oil tank and return line manifold.	YES
Poly Spinner and Chute to be supplied.	YES
Spinner light shall be installed.	YES

11) **SANDER CONTROLS**

Ace Ecobite Controller or FORCE AMERICA 2 KNOB MODEL; SSC1100	Specify_____
2 Section valve for spinner and conveyor	YES

The regulator to be pressure compensated so that the selected flow will not changes as load or engine speed changes. YES

A by-pass lever to be provided to start or stop the spreader without changing settings. YES

12) **WELDING**

All welds shall be continuous type and shall not permit any moisture to be trapped in the joints. YES

13) **SAFETY BAR**

The body to be equipped with two safety bars to support the body in both raised positions. YES

14) **PAINT**

The body and frame shall be sandblasted before the paint is applied. The body and frame shall be painted with one coat of anti-corrosive epoxy primer 3.5 mil thickness and two coats of manufacturer's standard Dupont #B9044K or equivalent (includes inside body) to match cab. YES

15) **PINTLE HOOK: Premier 2400 50 t or equivalent** SPECIFY:
- with 7 pin trailer plug

16) **PARTS BOOK**
Parts book to be supplied. YES

17) **WARRANTY** SPECIFY:

18) List five (3) Ontario Municipalities where this equipment has been in use for a full five (5) years.

	NAME	CONTACT	PHONE
--	------	---------	-------

1. _____

2. _____

3. _____

SPECIFICATION & CONFIRMATION
12' SNOW LEVELLING WING

- | | | |
|-----|---|---------------------|
| 1. | This snow leveling wing shall comply with the provisions of M.T.O. Standards ES-406, and shall be suitable for use with standard front wing post M.T.O. Standard ES-403, and open type hydraulic control box M.T.O. Standard ES-413 and ES-415. | MAKE:

MODEL: |
| 2. | The leading edge of the wing shall be approximately 25" from the bottom of the cutting edge to the top of the wing. | SPECIFY: |
| 3. | The trailing edge of the wing shall be approximately 36" from the bottom of the cutting edge to the top of the wing. | SPECIFY: |
| 4. | Overall length of the wing shall be 12' approximately. | SPECIFY: |
| 5. | The thickness of the moldboard shall be 10 U.S.S. Ga. (1345") minimum. | SPECIFY: |
| 6. | Two drive ribs for connecting the wing braces shall be provided, having a 100% weld on both sides. | YES |
| 7. | The drive ribs shall be located 8'6" and 10'0" from the leading edge of the wing, and be perpendicular to the rear tower. | YES |
| 8. | The plate for mounting the wing to the wing post shall be 1" thick. | SPECIFY: |
| 9. | There shall be sufficient material around the front mounting bolt hole to cover the mounting plate on the tripping device on the front wing tower. | YES |
| 10. | Adequate adjustable wing braces shall be supplied. | YES |
| 11. | The upper brace shall be extendible to allow for a tripping action and shall incorporate a compression spring to return the brace to the normal collapsed position (if 2 supplied) | YES |
| | The upper brace shall incorporate a removable locking pin to lock out the tripping action for high winging. | YES |
| 12. | The wing shall be fitted with the following:
One (1) High wear type snow-plow blade cutting edge with incorporated wing shoes | YES |

- | | | |
|-----|--|-----|
| 13. | The top rail of the moldboard shall be manufactured of 4" x 1 5/8" steel channel 5.4lbs/ft and welded securely to the ribs and moldboard with a continuous bead. All other welds must be 100%. | YES |
| 14. | A sturdy eye shall be provided on top of the wing at the center of gravity for handling. | YES |
| 15. | Grab hook and eye shall be supplied for wing safety chain attachment. | YES |
| 16. | The complete wing unit shall be painted black. | YES |
| 17. | Operators, maintenance, and parts manuals, shall be supplied. | YES |
| 18. | Signed Manufacturer's Warranty shall be supplied. | YES |

**NOTE: It will be the responsibility of the supplier to obtain any M.T.O. Standards referred to in the foregoing specifications, and/or to contact the County of Renfrew for required information referred to in this document

Date Signed

Signature of Bidder

Truck To Be Traded

1. One (1) Tandem Axle Truck

MAKE: Ford

MODEL: LT9000

ENGINE: 300 cummins

YEAR: 1993

KILOMETERS; 171,992 KL

2. One (1) 4 seasons Dump Box, Plow and Wing

**DOCUMENT NO. TR-22
SUPPLY AND DELIVERY OF
ONE (1) MINIMUM 60,000 G.V.W.R. COMBINATION PLOW
GRAVEL/SALT/SAND TANDEM TRUCK
FOR: TOWNSHIP OF WHITEWATER REGION PUBLIC WORKS DEPARTMENT**

We acknowledge that this offer must be received at the Cobden office, 44 Main St. Cobden, On. By 1:00 p.m. On _____ Day of _____ 2006

I/WE declare that the matters stated in the said Tender, are in all respects true.

I/WE have carefully read the Specifications and General Conditions and Special Conditions as per the Tender call, and have otherwise satisfied ourselves as to the conditions under which the work is to be carried out, and do hereby Tender for and offer to enter into contract with the Corporation of the TOWNSHIP OF WHITEWATER REGION for the supply & delivery of a Tandem Truck equipped for hauling and spreading granular and sand/salt application as specified.

I/WE hereby agree to comply in all respects with the Specifications and General Conditions attached hereto, which terms and conditions are to be read with and form part of this Tender.

I/WE declare that addenda have been received for this tender document and are attached to this submission, and that **I/WE** understand it is the bidder's ultimate responsibility to ensure all addenda issued have been received.

I/WE acknowledge that the Township of Whitewater Region can accept or deny, for any reason, any proposal submitted in writing with or in this tender form.

I/WE acknowledge that acceptance of this tender and the issuance of a purchase order shall be considered a binding contract upon both parties. If specified at any time by the Township, it is acknowledged and agreed that the terms and conditions and any representations made in reference to this tender shall be incorporated in a contract to be executed by the parties once the Township of whitewater Region has formally accepted the tender offer

I/WE warrant that the tendered price shall be valid and binding for a period of ninety (90) days from the date of tender closing.

I/WE warrant that the standard product warranties will be made available with this product to the Municipality

I/WE warrant that if this Tender is made by a Corporation then the party executing this offer on behalf of the Corporation has the authority to bind the Corporation.

Dated this _____ **Day of** _____ **2008**

Signature: _____.

Name: print; _____.