



**The Corporation of the Township of Douro-Dummer
Public Works Department**

Tender # 2011 - 02

**One 2012 Diesel Powered Tandem Truck Complete with
Snowplow Harness, Two-way Plow, Wing & All Season Dump
Body/Spreader**

Submitted by,

Name of Firm or Individual

Address (Include postal code)

Telephone No. (include area code)

Name of Person Signing for Firm

Office of Person Signing for Firm

Make of Unit Tendered on

Tender Closing Date: June 23rd, 2011 at 12:00 p.m. Noon

Mail to:

David Clifford, CAO
P. O. Box 92
Warsaw, ON K0L 3A0
Phone: 705-652-8392 ext. 206
davec@dourodummer.on.ca

Additional information can be obtained from:

Harold Nelson, Manager of Public Works
Phone: 705-652-8402
Fax: 705-652-5044
publicworks@dourodummer.on.ca

Information to Bidders

1. Tender

Tenders will be received by:

The Corporation of the Township of Douro-Dummer
894 South Street
P.O. Box 92
Warsaw, ON K0L 3A0

Attn: Tender for 2012 Tandem Truck

Tender Copies

One copy of the Tender, properly signed and sealed, shall arrive at the office of the C.A.O. of the Township of Douro-Dummer, 894 South Street, P.O. Box 92, Warsaw, Ontario K0L 3A0.

Tender Closing

Tenders must be delivered to the above address before **12:00:00 Noon Local Time, June 23rd, 2011.**

The tender form must be signed by a designated signing officer of the bidding firm.

If a joint bid is submitted, it must be signed and addressed on behalf of each of the bidders.

2. Tender Award

The lowest or any Tender may not necessarily be accepted as the Township reserves the right to reject any or all tenders.

3. Location - Delivery

The complete unit is to be delivered F.O.B. to Township of Douro-Dummer, **Warsaw Roads Depot, 1422 County Rd. #4, Warsaw Ontario K0L 3A0**, on or before **December 20th, 2011.**

4. Intended Use

The truck is to be used for the plowing and sanding of Township of Douro-Dummer Roads and other trucking functions.

5. Vehicle Safety

Equipment shall meet or surpass the mandatory requirements of the S.A.E. Standards.

Part "A" – Information to Bidders (continued)

6. Trade In

No Trade In

7. Descriptive Literature

Descriptive literature shall be provided with tender submission.

8. Minimums

Vehicle must be supplied with suitable components to comply with the following specifications in all aspects. Where minimums are called for, the vehicle must meet or exceed the capacity, size or performance specified.

9. Service of Unit

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

10. Bid Deposit Requirements

No bid deposits required for this tender.

11. Inquiry

Any questions regarding this tender should be directed to:

Mr. Harold Nelson, Manager of Public Works
894 South Street, P.O. Box 92
Warsaw, ON K0L 3A0
705-652-8402
Email: publicworks@dourodummer.on.ca

12. Amendments to "Standard terms and conditions for supply of equipment and materials"

All items in this section supersede content of "Standard Terms and Conditions for the Supply of Equipment, Materials, and Services" Attached.

Part "B" – Standard Terms and Conditions

1. Definitions

Township - The Township of Douro-Dummer

Company - The person(s), firm(s) or corporation(s) to whom the Township has awarded the contract.

Contract - The purchase order authorizing the company to do the work, the Tender, the bonds or security (if any), the company's Tender, and change notices, appendices, and addenda (if any).

Subcontractor- A person(s), firm(s) or corporation(s) having a contract with the company for any part of the work.

Tendering

Document - The documents issued by the Township in response to which Tenders are invited for the performance of the work or supply of equipment.

Equipment - The materials, machinery, assemblies, instruments, devices or articles as the case may be, or components thereof, which are the subject of the contract.

Work - All materials, equipment fixtures, services, supplies, and acts required to be done, furnished and/or performed by the company.

2. Submission of Tender

Tenders must be submitted on the form of Tender supplied by the Township.

Tenders must be legible, written in ink or typewritten. Erasures, over-writing or strike outs must be initialed by the person signing on behalf of the company.

Tenders must be submitted in individually sealed envelopes and clearly marked "**Tender for 2012 Tandem Truck**"

Tenders received after the closing time specified in the Tendering documents will not be considered.

Fax Tenders are not acceptable.

3. Proof of Ability

The Tenderer may be required to show, in terms of experience and facilities, evidence of its ability, as well as that of any proposed subcontractor, to perform the work by the specified delivery date.

Part "B" – Standard Terms and Conditions – (continued)

4. Delivery

Time shall be material and of the essence of the contract.

The company shall be responsible for arranging its work so that completion shall be as specified in the contract.

5. Pricing Requirement

Prices shall be in Canadian Funds, quoted separately for each item stipulated F.O.B. the point specified therein.

All prices tendered shall include applicable taxes, customs duty, excise tax, freight, insurance and all other charges of every kind attributable to the work. Provincial Sales Tax and Goods and Services Tax shall be shown as extra, unless otherwise specified.

If the Tenderer intends to manufacture or fabricate any part of the work outside of Canada, it shall arrange its shipping procedures so that its agent or representative in Canada is the Importer of record for customs purposes.

Except as may be provided elsewhere in this Tendering document, the prices Tendered shall not be subject to adjustment for any cost of the work to the company.

6. Terms of Payment

Unless progress payments or any alternate payment terms are specified in the contract, the contract price may be invoiced after delivery and shall be payable 30 days from receipt of invoice. The effect of any alternative payment terms, stated clearly in the Tender will be considered in the evaluation of Tenders.

The Township shall have the right to withhold from any sum otherwise payable to the company such amount as may be sufficient to remedy any defect or deficiency in the work, pending correction of the same.

7. Patents and Copyrights

The company shall at its expense, defend all claims, actions or proceedings against the Township based on any allegations that the work or any part of the work constitutes an infringement of any patent, copyright or other proprietary right and shall pay to the Township all costs, damages, charges and expenses, including its lawyers' fees on a solicitor and his own client basis occasioned to the Township by reason thereof. The company shall pay all royalties and patent license fees required for the work. If the work or any part thereof is in any action or proceeding held to constitute an infringement, the company shall forthwith either secure for the Township the right to continue using the work, or shall at the company's expense, replace the infringing items with non-infringing work or modify them so that the work no longer infringes.

Part "B" – Standard Terms and Conditions – (continued)

8. Assignment

The company shall not assign the contract or any portion thereof without the prior written consent of the Township.

9. Laws and Regulations

The company shall comply with relevant federal, provincial and municipal statutes, regulations and by-laws pertaining to the work and its performance. The company shall be responsible for ensuring similar compliance by its suppliers and subcontractors.

The contract shall be governed by and interpreted in accordance with the laws of the Province of Ontario.

The Contractor shall conform to and enforce strict compliance with the Construction Safety Act, and Regulations made under that Act.

The successful bidder, for purposes of the Occupational Health & Safety Act, will be designated as the Constructor for this project and will assume all of the responsibilities of the Constructor set out in that Act and its regulations and shall be responsible for any costs to defend charges as a result of any violation.

10. Correction of Defects

If at any time prior to one year (or specified warranty/guarantee period if longer than one year) after the actual delivery date of the equipment any part of the equipment becomes defective or is deficient or fails due to defect in design, material or workmanship, or otherwise fails to meet the requirements of the contract, then the company, upon request, shall make good every such defect, deficiency or failure without cost to the Township. The company shall pay all transportation costs for parts and/or equipment both ways between the company's factory or repair depot and the point of use.

11. Bid Acceptance

The Township reserves the right to award by item, or part thereof, groups of items, or parts thereof, or all items of the Tender, and to award contracts to one or more bidders submitting identical Tenders as to price; to accept or reject any Tenders in whole or in part; to waive irregularities and omissions. If in so doing, the best interests of the Township will be served. No liability shall accrue to the Township for its decision in this regard.

Tenders shall be irrevocable for 60 days after the official closing time.

A copy of a current WSIB Clearance Certificate

A copy of current liability insurance policy in a minimum amount of \$2,000,000 with the Township of Douro-Dummer named insured.

The acceptance of any Tender is subject to appropriate funding acceptable to the Township.

The successful bidder shall provide the following for equipment:

1. Parts Manual
2. Operation / maintenance manuals and CD if available
3. Shop repair manual

12. Tendering Procedures

Tenders will be called, received, evaluated, accepted and processed in accordance with the Township's Purchasing and Tendering Procedures.

13. Default by Company

- a) If the company; commits any act of bankruptcy; or if a receiver is appointed on account of its insolvency or in respect of any of its property; or if the company makes a general assignment for the benefit of its creditors; then, in any such case, the Township may, without notice; terminate the contract.
- b) If the company; fails to comply with any request, instruction or order of the Township; or fails to pay its accounts; or fails to comply with or persistently disregard statutes, regulations, by-laws or directives of relevant authorities relating to the work; or fails to prosecute the work with the skill and diligence; or assigns or sublets the contract or any portion thereof without the Township's written consent; or refuses to correct defective work; or is otherwise in default in carrying out its part of any of the terms, conditions and obligations of the contract, then, in any such case, the Township may, upon expiration of ten days from the date of written notice to the company, terminate the contract.
- c) Any termination of the contract by the Township, as aforesaid, shall be without prejudice to any other rights or remedies the Township may have.
- d) If the Township terminates the contract, it is entitled to:
 - i) take possession of all of the work in progress and finish the work by whatever means the Township may deem appropriate under the circumstances;
 - ii) withhold any further payments to the company until its liability to the Township is ascertained;
 - iii) recover from the company loss, damage and expense incurred by the Township by reason of the company's default (which may be deducted from any monies due or becoming due to the company, any balance to be paid by the company to the Township).

14. Disclosure

The names of bidders and total bid prices will only be made available at the public Tender opening. After the Tender opening, requests may be submitted to the Township for the results, and only the names of bidders and total bid prices as read out at the Tender opening will be given in the reply.

Part "B" – Standard Terms and Conditions – (continued)

15. Contract Cancellation

The Township shall have the right, which may be exercised from time to time to cancel any uncompleted or unperformed portion of the work or part thereof. In the event of such cancellation, the Township and the company shall negotiate a settlement.

The Township shall not be liable to the company for loss of anticipated profit on the cancelled portion or portions of the work.

16. Quantities

Where quantities are shown as approximate, they are not guaranteed to be accurate and are furnished without any liability on behalf of the Township and shall be used as a basis for comparison only.

Specifications For Tandem Truck

General:

It is the intent of these specifications to describe one diesel powered tandem truck in sufficient detail to secure bids on comparable equipment. This unit will be used by the Township for hauling sand and gravel in the summer and snow plowing and sanding in the winter. Vehicle must be supplied with suitable components to comply in all aspects with the following specifications. Where minimums are called for, the unit must meet, or exceed the capacity, size of performance specified. This specifications list 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.

Specifications:

Confirmation

The vehicle shall be supplied with all standard equipment plus all other equipment outlined in this specification, if not standard	Yes	No
The vehicles shall meet or surpass the mandatory requirements of the “Canadian Motor Vehicle Safety Regulations (S.O.R. 70-487) amended” and bear the National Safety Mark outlined in those regulations.	Yes	No

Dated at _____ this _____ Day of _____ 2011.

Witness

Signature of Authorized Person

Print Name

Name of Firm

Position in Firm

Specifications for One Tandem Truck
All appropriate blanks must be filled in

Specification:		Confirmation:	
1. Truck:			
Make:			
Model:			
2. Vehicle Weight:			
2.1	G. V. W. 58,000 lb. min.	Specify lbs:	
2.2	The allowable G. V. W. as supplied shall be shown on a metal tag attached to the truck	Yes	No
2.3	Chassis weight 19,000 lbs. min.	Specify:	
3. Axles:			
3.1	Set forward front axle preferred if body style will accept tire chains. shall be 20,000 lbs. min. with shocks	Specify:	
		Model:	
		Capacity:	
3.2	Rear axle shall be 40,000 lbs. cap. Min. with a 60 inch spread.	Specify:	
3.3	Rear axles shall be tandem dual drive with Full locking wheel differentials as well as inter-axle differential and driver controlled inter-axle differential lockout. With lube oil pump.	Specify:	
3.4	Rear axles shall be single speed	Yes	No
3.5	Following is a list of approved axles: Eaton, International, Rockwell	Specify:	
3.6	Road speed at rated RPM in top gear shall be 60 to 65 MPH approximately	Specify Speed:	
3.7	Axle ratio 3.90	Specify:	
3.8	Road speed in low gear at max. torque RPM	Specify:	
4. Brakes:			
4.1	Service brakes-full air brakes Rockwell Q Plus	Yes	No
4.2	Front brakes – size 16x6 min. "S" Cam.	Specify:	
4.3	Rear brakes – size 16-1/2 x 7 min. "S" cam.	Specify:	
4.4	Positive spring loaded parking brake on both rear axles with air reservoir and inst. Panel control switch	Yes	No
4.5	Low pressure indicator shall be supplied	Yes	No
4.6	A separate petcock type manual drain shall be provided on all air tanks and c/w cables included	Yes	No
4.7	Air compressor, 18.7 cfm. Cap. Min. intake Connected to the engine air cleaner system	Specify:	
4.8	Air dryer shall be supplied	Yes	No
4.9	Maxi brake or equivalent to lock all four (4) rear wheels when vehicle is stopped shall be supplied.	Yes	No
4.10	Trailer air brake package with Glad Hands	Yes	No

5. Frame:			
5.1	Resisting bending moment (section modulus x yield strength) shall be 3,804,000 lb. in. min.	Yes	No
5.2	Section modulus shall be 31.72 min. (see M.T.O. SPEC)	Specify Sec. Modulus:	
		Frame Yield:	
		Strength:	
5.3	Trucks with trunion type motor mounts require frame reinforcing	Specify:	
5.4	Mounting of snow plow cheek plates shall be Possible	Yes	No
5.5	Frame shall be supplied as per requirements outlined on pages 7&8	Yes	No
5.6	Front and Rear Tow Hooks	Yes	No
6. Suspension:			
6.1	C.A. shall be 132" from cab to center of walking beam.	Yes	No
6.2	Wheelbase shall be 190" approx.	Yes	No
6.3	Front spring capacity at the ground 10,000 lbs. Each min.	Specify:	
6.4	Rear axle capacities to be 40,000 lbs min. and Hendrickson HMX – 460 – 60 rubber block suspension c/w rear shocks	Specify:	
7. Wheels and Tires:			
7.1	Dual rear wheels with .472 increased Thick RIMS	Yes	No
7.2	Trucks shall be supplied with Michelin tires, eight size 11.00R x 22.5; 16 ply rating on the rear; and two size 425 65R x 22.5 20 ply rating, on the front.	Yes	No
		Specify Size:	
		Specify Ply Rating:	
7.3	A total of ten rims per truck to be supplied, Eight 22.5 x 8.5 and two 12.25 x 22.5	Yes	No
7.4	Wheels to be hub piloted steel disc with load and pressure ratings equal or greater than those of the tires. With powder coated rims	Yes	No
7.5	Front Rims Aluminum, Minimum 22 x 12.25 Heavy Duty Hub pilot – 10,000lb	Yes	No
7.6	Tires other than those specified in the tender, must be approved by the Township	Yes	No
8. Engine:			
8.1	Diesel	Yes	No
8.2	Engine net HP. 410 min. at 2,100 RPM (SAE J816b and J270)	Specify RPM:	
8.3	Engine net torque 1450 lb.ft.min. at 1200 RPM	Specify:	
		Torque:	
8.4	Engine shall be 13 Litre Displacement with rust protection	Yes	No
9. Transmission:			
9.1	Transmission shall be Fuller FR-14210B 1450 lbs. ft. torque 10 speed manual	Yes	No
9.2	Opening for right & left hand P.T.O. shall be supplied, with synthetic oil	Yes	No

10. Clutch			
10.1	15.5 inch double disc clutch to be supplied	Yes	No
11. Engine Equipment			
11.1	Alternator shall be 135 am cap.min. with built-in diode, rectifiers and shielded slip rings and brushes	Yes	No
		Specify Make:	
		Specify Model:	
11.2	30 AMP capacity at idle min.	Specify:	
11.3	Three 12 volt-maintenance free batteries shall be supplied. Batteries mounted right side under cab. Must be easily accessible for service	Specify:	
11.4	Governor – engine governor built-in type	Yes	No
11.5	High engine temperature and low oil pressure shall be bell or buzzer device. (automatic engine shutdown not acceptable).	Yes	No
11.6	Air cleaner – a heavy duty, dual element, dry type air cleaner shall be supplied with some means of drawing air supply from within the engine compartment during winter plowing operations or with the air cleaner mounted on the left hand side (driver's side) of the truck to prevent blowing snow from plugging the air filter	Yes	No
11.7	Oil filter-full flow spin-on type filter to be supplied	Yes	No
11.8	A heavy duty fuel oil water separator shall be supplied, Conmet CM-99-217B or CM-99-327 or approved equivalent	Yes	no
11.9	1500 watt in-line engine circulation heater shall be supplied	Yes	No
11.10	Engine hood shall have side access doors, shall be easily titled forward and shall have rubber extensions at the wheel wells to cover the wider front tires, with bug screen	Yes	No
11.11	Engine to be equipped with a Jacobs Engine brake	Yes	No
11.12	For snow plowing purposes, a min. 3-1/2" dia. opening through the radiator shall be provided centered with the engine crankshaft to allow adequate clearance of the PTO shaft. The crankshaft shall be provided with adapter for the PTO crankshaft.	Yes	No
11.13	Where crankshaft is located low enough to allow the front mounted pump to operate with sufficient clearance below the radiator, the 3-1/2" opening in the radiator is not required	Yes	No
11.14	Exhaust system shall consist of a horizontal muffler and a vertical stack, secured to the right rear corner of the cab.	Yes	No
11.15	Disconnect switch that shuts off batteries will be installed	Yes	No
12. Cab			
12.1	Premium interior air ride cab	Yes	No
12.2	Seats – Driver's seat shall be deluxe high back individual adjustable fore and aft as well as up and down with air operated provision for adjusting the action to suit the driver's weight.	Yes	No
12.3	Single passenger seat shall be adjustable fore and aft.	Yes	No

12.4	Both seats shall be fully padded and of heavy duty construction, covered with a cloth type material on foam cushions	Yes	No
12.5	Sun Visors-driver and passenger sun visors as well as an exterior cab sun visor	Yes	No
12.6	Fully tinted windshield to be supplied	Yes	No
12.7	Heavy duty electric, intermittent wipers/washer to be supplied	Yes	No
12.8	Heavy duty fresh air heater and defroster shall be supplied capable of keeping the windshield clear under the most severe snowplowing conditions	Yes	No
12.9	Air conditioning to be supplied	Yes	No
12.10	Tachometer shall be supplied	Yes	No
12.11	Hour meter shall be supplied	Yes	No
12.12	Two seatbelts to be supplied		
12.13	Floor mat – rubber shall be supplied as well as individual removable rubber mat to ease removal of mud and dirt from the floor	Yes	No
12.14	Two Driver Controlled power Mirrors outside 8" x 16" heaters as well as two 8" convex mirrors shall be supplied, heated	Yes	No
12.15	Fender mirrors (if able to mount)	Yes	No
12.16	One grab bar on each side of the cab to provide easy entry and exit from the cab	Yes	No
12.17	Air horns with covers shall be supplied	Yes	No
12.18	Rain gutters or drip moldings shall be supplied	Yes	No
12.19	Radio -Factory option AM/FM radio c/w. Antenna to be mounted on extreme left of cab roof if possible	Yes	No
12.20	Both door windows shall be electrically operated with switch in easy reach of the operator, includes power locks	Yes	No
12.21	Pre-trip inspection exterior lights	Yes	No
12.22	Noise level in cab with engine under full load shall not exceed 90 decibels	Yes	No
12.23	Heated windshield shall be supplied	Yes	No
13. Fuel Tank:			
13.1	An 80 imperial gallon min. step aluminum tank to be supplied and mounted on the left side of the frame, far enough ahead as not to interfere with the operation of the spinner. Steps shall be mounted on the tank to allow easy access to the cab. With stainless steel straps	Yes	No
		Specify Cap:	
		Specify Type:	
13.2	Fuel gauge shall be supplied	Yes	No
14. Lights:			
14.1	The following lights shall be supplied two fender mounted 4" dia. Dual face amber directional lights, facing front	Yes	No
14.2	Rear red directional lights shall be supplied. All rear lights to be LED type if available.	Yes	No
14.3	Stop lights shall be supplied	Yes	No

14.4	Five identification streamlined cab lights shall be supplied, LED type if available.	Yes	No
14.5	Four way flasher shall be supplied	Yes	No
14.6	Two backup lights shall be supplied as well as a back-up alarm	Yes	No
15. Paint:			
15.1	The exterior paint shall be Wheatland Yellow over a prime coat of good bonding paint.	Yes	No
16. Steering			
16.1	Power steering shall be supplied with tilt column	Yes	No
17. Attachments			
17.1	Anti-freeze to -32 deg F. shall be supplied	Yes	No
17.2	Flare kit as per MTO spec. to be supplied	Yes	No
17.3	Shop, engine and parts manual or CD's to be supplied	Yes	No
17.4	20 ton cap. Hydraulic jack shall be supplied, First Aid Kit and 2 ½ lb fire extinguisher to be included,	Yes	No
18. Warranty:			
18.1	Signed manufacturer's warranty to be supplied	Yes	No
18.2	Vehicle shall meet or surpass the mandatory requirements of the C.M.V. safety regs (SOR 70/487) amended and must bear the National Safety Mark outline in those regs.	Yes	No
18.3	State warranty of the following: (if warranty is of a declining basis depending on mileage or time, give complete details)		
	a) Engine Components:	Specify:	
	b) All power train components, trans, diffs , etc	Specify:	
19. Delivery			
19.1	Delivery of the complete unit can be expected in _____ days After placing of the order but not later than _____ days The unit MUST be in our Warsaw Yard on or before December 20 th , 2011	Yes	No
20. Payment:			
20.1	Payment for the completed unit will be made after delivery to our Warsaw Yard and after inspection by our Public Works Manager.	Yes	No
21. Automatic Greaser:			
21.1	Installation of an Groeneveld automatic greaser	Yes	No
		Specify:	
22. Pintle Hook			
22.1	A pintle hook Holland PH300-1 or equivalent shall be supplied and installed.	Yes	No
		Specify:	
22.2	The rear of the truck frame shall be equipped with a pintle hook mounting structure and any necessary bracing, of sufficient strength to support the rated capacity of the pintle	Yes	No
		Specify:	

	hook		
22.3	The pintle hook must be mounted centrally at the truck frame. The head of the pintle hook must extend rearward and not extend beyond the rear of the dump body.	Yes	No
		Specify:	
22.4	The pintle hook mounted height shall be 29" measured from ground level to horizontal centre line of pintle hook, with the truck empty and sitting level.	Yes	No
		Specify:	
22.5	Two safety chain brackets shall be welded to the pintle hook support structure as close to the frame width as possible and be equal to or greater than the pintle hook maximum gross trailer weight rating	Yes	No
		Specify Rating:	

**Specifications for all Season Combination Dump Body/Spreader
All appropriate blanks must be filled in.**

Requirements:		Confirmation:	
1.General:			
1.1	These specifications describe an All Season Combination Dump Body and Sand/Salt 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 and smooth sided to permit gravity flow unloading. Brake formed sides are not acceptable. 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 dump box.	Yes	No
1.2	Viking Model Proline 1415HWHT or an equivalent approved by the Township of Douro-Dummer prior to the closing of this tender.	Make:	
		Model:	
		Specify:	
2.Specifications:			
2.1	Body shall be oval shaped, permitting materials to unload by gravity flow into spreading position.	Yes	No
2.2	Water level capacity will be 14 cu.yd., minimum.	Yes	No
2.3	Water level capacity with 10" sideboards will be 17 cu.yd., minimum.	Yes	No
2.4	Outside length 15' minimum.	Yes	No
2.5	Inside length 14' minimum.	Yes	No
2.6	Overall width 8' maximum.	Yes	No
2.7	Height of sides 53".	Yes	No
2.8	Height of tailgate 62".	Yes	No
2.9	Height of front panel approx. 63".	Yes	No
2.10	Top rail of body will be 6" x 4" x 3/8" rectangular tubing	Yes	No
2.11	All body welds will be 100% continuous inside and outside.	Yes	No
2.12	Body floor, sides, front panel and tailgate will be constructed of 3/16" "Hardox 450" hi-tensile corrosion resistant steel.	Yes	No
2.13	Dump box access ladder shall be 16" wide and recessed to be flush with dump body rail and fender, located on drivers side at front of box, sloping inward from bottom to top.	Yes	No
3.Hoist:			
3.1	Hoist shall be a front mounted, (3) stage telescopic with 5.5 " bore	Yes	No
3.2	Hoist class shall be 80/30 ton	Yes	No
3.3	Cylinder stroke shall be 330 cm (130") minimum	Yes	No
3.4	Dump box tipping angle shall be 50 degrees	Yes	No
3.5	Hinge dia. shall be 2.5"	Yes	No
3.6	Hoist control valve shall be air operated	Yes	No
4.Tailgate:			

4.1	Tailgate height shall be 62"	Yes	No
4.2	Construction shall be of 3/16" "Hardox 450" hi-tensile steel with 3/16" formed cross bracing	Yes	No
4.3	Latch mechanism for the tailgate shall be air trip and latch using two air pot boosters	Yes	No
4.4	Spreader chains and brackets shall be supplied on Tailgate and rear post. Chains shall be 70 coil proof 5/16" minimum.	Yes	No
4.5	Coal gate at centre with lever handle	Yes	No
4.6	Barnyard style and tailgate as possible option if available to open to the passenger side and lock.	Yes	No

Price for barnyard style tailgate:

Price including HST: _____

5.Conveyer:

5.1	The main conveyer shall be recessed along the length of dump box floor	Yes	No
5.2	The conveyer chain shall be a minimum of 30,000 lbs., tensile strength self cleaning pintle chain with ¼" x 1 ¼" crosses welded to every 4th link (approx. 9").	Yes	No
5.3	The main conveyer shall be hydraulic direct drive providing a minimum of 38,000 lbs., torque capacity or equivalent	Yes	No
5.4	The flow control gate between main and cross conveyer shall be screw adjustable by hand crank from drivers side of dump body.	Yes	No
5.5	The cross conveyer shall be hydraulic direct drive	Yes	No
5.6	The cross conveyer chain shall be a pintle chain with 3/16" x 1" crossers every 4" with a minimum tensile strength of 17,000 lbs	Yes	No

6.Spinner:

6.1	A polyurethane spinner shall be installed on the left hand side (Driver side) to spread ahead of wheels	Yes	No
6.2	Spinner disc will be hydraulic direct drive	Yes	No
6.3	Spinner height shall be adjusted to accommodate various chassis heights and capable of a discharge rate from 199 lbs./lane mile to 2,500lbs./lane mile.	Yes	No

7.Sander Controls:

7.1	Standard two knob flow controls to be supplied. Ace Ecobite controller with 2 section valve for spinner and conveyer, no exceptions. The regulator to be pressure compensated so that the flow will not change as load or engine speed changes. A by-pass lever to be provided to start or stop the spreader without changing settings.	Yes	No
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8.Fenders and Flaps:

8.1	Fenders shall be continuous along the full length of dump body to provide cover for rear wheels and the protect body. Fenders to be fabricated from minimum 10 GA Cor-ten "A" corrosion resistant steel	Yes	No
8.2	Fender width shall be sufficient to accommodate on-board liquid storage tanks on both sides. Tanks are not required at this time	Yes	No
8.3	Integral fenders to be sloped away from unit to prevent any excess material spilled during loading from building/piling up.	Yes	No
8.4	Mud flaps shall be provided fore and aft of rear wheels frame mounted via full width steel flat bar.	Yes	No
8.5	Aluminum full fenders to be installed independent of the sander body and mounted on the truck chassis frame rails via mounting brackets. Fenders mtd. High enough to provide min. clearance of 7" above tires	Yes	No
9.Paint:			
9.1	The dump body shall be shot blasted and epoxy primed with 3 mils of Dupont DTM primer.	Yes	No
9.2	Finish paint shall be Dupont Imron "5000" polyurethane enamel and coloured International 4421 Yellow.	Yes	No
9.3	Paint Manufacturer: _____. Paint Type: _____. Finish Paint to be "Baked On".	Yes	No
10.Load Cover:			
10.1	An air tarp shall be supplied with fabricated tarp arms dimensions of 1 1/2" x 2 1/2" steel tubing, 1/8" mesh tarp. Powered by twin air cylinders operated from inside the cab.	Yes	No
11.Lights and Wiring:			
11.1	Two(2) Star 200 A Strobe lights with blue & amber lens, pedestal mounted behind the cab, shall be installed providing 360 degree visibility.	Yes	No
11.2	All box lights to be light emitting diode (LED).	Yes	No
11.3	Grote "Ultra Blue Seal" wiring harness for body lights & electrical shall be supplied (no substitutes).	Yes	No
11.4	Auxiliary lighting will plug directly into OEM supplied connections. Cutting, splicing, soldering or shrink tubing of connections is not acceptable.	Yes	No
11.5	Box lighting kit to include stop lights, tail lights, turn signals, emergency flashers and back-up lights, and shall be mounted on rear side posts.	Yes	No
11.6	Grote X-BOX LED blue and amber sequenced flashing light kit to be installed. This kit will include rubber grommet mtd. Blue & amber flashers high mounted in upper rear corner posts for maximum visibility, as well as dual blue and amber strobes frame	Yes	No

	mtd. in stainless steel boxes.		
11.7	Spinner light shall be supplied	Yes	No
11.8	High Mount stop and tail lights to be included for plowing (removable upper reds)	Yes	No
12. Hydraulics:			
12.1	The body operation shall be powered by the existing hydraulics of the snow plow truck harness.	Yes	No
12.2	All fittings, valves hoses and drive shaft shall be supplied and installed. All hoses shall be equipped with swivels on both ends	Yes	No
12.3	The hydraulic reservoir shall be of sufficient capacity to supply necessary oil supply. Reservoir must not interfere with the box installation	Yes	No
12.4	A sight gauge to allow easy checking of the hydraulic oil level in the reservoir shall be supplied.	Yes	No
12.5	Prototype units will not be acceptable. The bidder must be able to demonstrate a solid history of use of the combination U-body/spreader offered in this tender by Ontario Municipalities, for a minimum period of one year, and references must be supplied as specified below	Yes	No
13. CMVSA:			
13.1	Installation of this equipment shall meet or surpass the mandatory requirements of the Canada Motor Vehicle Safety Act and its regulations in effect on the date of manufacture and must bear the National Safety Mark. Specify National Safety Mark Number: _____	Yes	No

References:

	Name of Municipality	Contact Name	Position	Phone #
1.				
2.				
3.				
4.				
5.				

Specifications for Hydraulic Power Tilt Snow Plow Truck Harness
All appropriate blanks must be filled in

Specification:		Confirmation:	
1.	Viking OCP 105 or equivalent approved by the Township of Douro-Dummer's Manager of Public Works. The design and construction of the truck harness shall be in compliance with MTO standard ES-401, or be of equivalent design approved by MTO.	Specify:	
		Make:	
		Model:	
2.	The harness shall be mounted at the front end of the frame, and shall be bolted to the cheekplate.	Yes	No
3.	The lifting frame shall be bolted to the push plate and shall be braced to conform to M.T.O. standards.	Yes	No
4.	Lifting Ram Diameter – 4" D.A. minimum	Specify:	
5.	Lifting Ram Stroke – shall be 10" min.	Specify:	
6.	The cylinder rod shall be fully chrome plated	Yes	No
7.	Lift of grab link for nose chain shall be 18" minimum	Yes	No
8.	Drive ears shall be 30 1/2" centre to centre	Yes	No
9.	Height to lower drive connection shall be 19" when mounted, truck empty.	Yes	No
10.	Cheekplates to match truck frame shall be supplied and shall be compatible for plow.	Yes	No
11.	Three grab links shall be supplied.	Yes	No
12.	Two sealed beams Halogen type headlamps, with high and low beam shall be supplied	Yes	No
13.	Spacing and height of headlamps shall be in compliance with ES-401	Yes	No
14.	Right front Aeon helper spring shall be provided. The helper spring provided shall be easily removable.	Yes	No
15.	Two new 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	No
16.	The plow lights and signals shall be equipped with "Quick-Tack" ends	Yes	No
17.	All hydraulic hoses and wiring shall be adequately supported to ensure that wear and sag is completely eliminated.	Yes	No
18.	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
19.	Hydraulic power tilt function to be controlled in cab by featherable joystick air control.	Yes	No
20.	Front plate to be complete with quick-attach hitch pockets and pins	Yes	No
21.	The truck harness shall be painted industrial black.	Yes	No
22.	Option: Front Plow Cylinder will have ride control if available	Yes	No

22.	Total Price Including HST:_____		
23.	A parts manual shall be supplied with each unit	Yes	No
24.	Warranty one year parts and labour	Yes	No

Specifications for a Dowty Tandem Pump
All appropriate blanks must be filled in.

Specification:		Confirmation:	
1.	The hydraulic pump supplied shall be a Dowty Model 2PL158/220 front mount Tandem Dry Mode pump with in cab air shift.	Yes	No
	If a hydraulic piston pump can be supplied that can be shut off if a hose blows, without taking the drive shaft off, that meets the requirements please include in tender with Manager of Public Works approval.	Yes	No
2.	The first stage shall produce 13 US G.P.M. at 1,000 R.P.M. 23 US G.P.M. at 1,800 R.P.M.	Yes	No
3.	The second stage shall produce 18 US G.P.M. at 1,000 R.P.M. 32 US G.P.M. at 1,800 R.P.M.	Yes	No
4.	Pump mounting plate and splined drive shaft shall be supplied	Yes	No
5.	The pump shall be driven from the crankshaft.	Yes	No
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	No
7.	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
8.	Protective urethane hose wrap shall be installed on all hydraulic hoses where excessive wear can cause premature failure and to extend the life of these hoses.	Yes	No
9.	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	No
10.	The hydraulic system must be set up so all other hydraulic functions do not " rob " the sander equipment	Yes	No
11.	A parts manual shall be supplied with each unit.	Yes	No
12.	A low hydraulic oil alarm system with a dash mounted light and audible buzzer will be supplied and installed.	Yes	No

Specifications for Snow Plow Equipment 12' Snow Leveling Wing
All appropriate blanks must be filled in.

Specification:		Confirmation:		
1.	General: Viking VCL 144 WHD or equivalent in compliance with the following specification and approved by the municipality	Yes	No	
		Make:		
		Model:		
2.	The inside height of the wing shall be 29" minimum	Yes	No	
3.	The outside height of the wing shall be 39" minimum	Yes	No	
4.	Overall length of the wing shall be 12 feet	Yes	No	
5.	The thickness of the moldboard shall be 10 USS Ga (.1345) minimum	Yes	No	
6.	Two drive ribs for connecting the wing brace shall be provided	Yes	No	
7.	The drive ribs shall be located approximately 8'6" and 10'10" from the nose end of the wing	Yes	No	
8.	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.	Yes	No	
9.	Lower wing angle shall be 6" x 4" x 3/4"	Yes	No	
10.	The mounting of the nose end of the wing to the wing post shall be by means of a hinge and rectangle spring, to allow tipping over the wing.	Yes	No	
11.	Two adjustable wing braces shall be supplied	Yes	No	
12.	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	
13.	The distance between the center of the mounting holes of the wing braces shall be as follows: Upper brace – Extended 90" C.C. Collapsed 60" C.C.	Yes	No	
		Specify:		
		Specify:		
	Extended distances shall be measured with spring fully retracted		Yes	No
	Lower brace – Extended 90" C.C.		Specify:	
	Collapsed 60" C.C.		Specify:	
14.	One spare pin for adjusting the wing braces shall be supplied with each brace.	Yes	No	
15.	The top edge of the wing shall be boxed in and welded 100% to the ribs and the moldboard so as to avoid all pockets	Yes	No	
16.	The wing shall be fitted with a high wear wing blade	Yes	No	

	A 36" fluorescent marker shall be installed	Yes	No
	MTO style cross member to be installed approx. 10" behind cab, braced and gusseted fore and aft.	Yes	No
	Aeon rubber helper spring to be installed at right hand front spring	Yes	No
17.	Wing shall be painted black	Yes	No

Full Hydraulic Snow Plow Wing Tower
All appropriate blanks must be filled in

Specification:		Confirmation:	
General:			
1.	Viking model VCL 350SCL or equivalent approved by the Township of Douro-Dummer. Specify:	Yes	No
		Make:	
		Model:	
2.	The harness assembly shall be of heavy construction to sustain snow plowing operations under severe conditions	Yes	No
3.	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	No
4.	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 sturdy cross member shall replace ES402. This cross member shall be bolted to both cheek plates. Alternate braces must be approved.	Yes	No
5.	The wing post shall be made of 8", I-Beam, 18.4 lb/ft., minimum. Cross member shall be of heavy construction to sustain snow plowing operation in severe conditions.	Yes	No
6.	The wing post, when mounted, shall not be higher than the wing tower	Yes	No
7.	The sheave pin shall be provided with a grease fitting and an iolite bushing.	Yes	No
8.	A safety stop, limited slide travel shall be supplied	Yes	No
9.	Lifting cable shall not be mounted to the hinge pin.	Yes	No
10.	An 8" grab link shall be located halfway between upper and lower position of bolt "D" as shown on ES403	Yes	No
11.	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
12.	Bottom of wing shall be approx. 11" from the ground, truck empty, shall be protected by a shoe.	Yes	No
13.	A 3" X 30" stroke D.A. 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
14.	Cross member must be bolted to wing post.	Yes	No
15.	6" overhang shall be left on cross members to allow lateral movement for mounting the wing post on future trucks.	Yes	No
16.	The wing post and cross member shall be painted industrial Black.	Yes	No
17.	Two sealed beam wing light shall be provided with separate Switches. One mounted high and the other lower	Yes	No

18.	Two (2) Star 200A strobe lights with blue and amber lens, shall be installed, pedestal mounted behind cab.	Yes	No
19.	Bottom of wing tower shall have a ground clearance of 14" minimum, truck empty	Yes	No
20.	The spacing of the holes in the slides for connecting the wing braces shall be approximately 17".	Yes	No
21.	The spacing of the holes in the slides for connecting the wing braces shall be approximately 17"	Yes	No
22.	Approved size of ram controlling the rear end of wing shall be 3" dia. x 30" stroke approx. cylinder, with a cable and sheave assembly.	Yes	No
23.	Approved size of ram controlling wing brace slide shall be 3" dia. x 36" stroke approx. and shall be double acting.	Yes	No
24.	Wing tower shall be painted black.	Yes	No
25.	The wing tower shall be of a heavy construction and bolted to the right side of the truck chassis	Yes	No
26.	An oil filter with spin-on element shall be installed in the return line ahead of the reservoir with a shut-off valve between the filter and reservoir.	Yes	No
27.	Wing tower shall be of 10" channel construction with a 25 degree offset and its mountings shall be sufficient to sustain snow plowing operations under severe conditions.	Yes	No
28.	One pipe brace 2 3/4" 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
29.	The rear wing tower shall be heavily braced and gusseted to the frame cheekplate.	Yes	No
30.	For maximum strength two channels shall be used to form support integral with the rear post.	Yes	No
31.	Two triangular stiffeners shall be incorporated into the assembly.	Yes	No
32.	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
33.	All sheave pins shall be provided with oil impregnated bronze bearings and grease fitting.	Yes	No
34.	A safety chain shall be provided for securing wing when not in use.	Yes	No
35.	Guide bars to contain the rear wing slide shall be welded 100% from the bottom up 2 feet.	Yes	No
36.	Parts manual shall be supplied with each unit.	Yes	No

Hydraulic Controls			
1.	Hydraulic Control Valves will be stackable sectional type HCD-6 with HCD6-L20 air shift	Yes	No
2.	To prevent corrosion the air shifters will have a bronze sleeve	Yes	No
3.	The control valve will include the following sections: 1 D.A. Plow lift 1 D.A. Wing Braces 1 D.A. Tilt Harness 1 S.A. Body Hoist 1 D.A. Front of Wing 1 D.A. Reverse Plow 1 D.A. Rear Wing Slide	Yes	No
4.	Ace Ecobite controller with 2 section valve for spinner and conveyor, no exceptions. The regulator to be pressure compensated so that the flow will not change as load or engine speed changes. A by-pass lever to be provided to start or stop the spreader without changing settings.	Yes	No
5.	The hydraulic control valves will be operated by proportional featherable in cab air controls	Yes	No
6.	The control panel assembly shall be of a remote design pedestal mounted and adjustable	Yes	No
7.	An oil reservoir with 35 U.S. gallon capacity shall be supplied complete with oil filter level sight gauge, breather type filler cap, drain plug and oil shut off valve	Yes	No
8.	The complete valve stack assembly will be mounted vertically on a ¼" mounting plate, integral with the rear wing tower assembly	Yes	No
9.	The valve mounting plate will be welded to the horizontal channel and sloping diagonal brace	Yes	No
10.	The valve assembly will be completely open and easily accessible from the driver's side of the chassis for washing and maintenance	Yes	No

Specifications for Snow Plow Equipment 2-way Hydraulic Power Reversing Plow
All appropriate blanks must be filled in.

Specification:		Confirmation:	
1.	12' Viking model VCL36-12-45C hydraulic power reversing two-way snow plow or equivalent approved by the Township of Douro-Dummer	Make:	
		Model:	
		Specify:	
2.	Moldboard shall be adjustable via a telescope back brace to achieve an attack angel of 50 or 60 degrees.	Yes	No
3.	Dimensions: Overall width 12'	Specify:	
	Moldboard height 36"	Specify:	
	Path cleared – Bulldozing 12'	Specify:	
	- At 35 deg. 9'/10"	Specify:	
4.	Set at 50 deg. attack angle, the overhang from the cutting edge to the front of the moldboard shall be 20" minimum.	Yes	No
5.	Set at 60 deg. attack angle, the overhang from the cutting edge to the front of the moldboard shall be 25" minimum.	Yes	No
6.	Set at 50 deg. attack angle, the height from the ground to the front of the moldboard shall be 28" maximum.	Yes	No
7.	Set at 60 deg. attack angle, the height from the ground to the front of the moldboard shall be 24" maximum.	Yes	No
8.	The moldboard shall be fabricated from 10 ga. steel.	Yes	No
9.	There shall be 8 3/8" thick reinforcing ribs 100% welded to the moldboard.	Yes	No
10.	The safety trip shall consist of two compression coil springs incorporate in the drive frame, which will allow the moldboard, to float over obstructions.	Yes	No
11.	The two compression trip springs will be 5/8" wire, 5 1/4" O.D., 14" free length with a total of 8 active coils.	Yes	No
12.	Mushroom style skid shoes shall be fitted on the drive frame.	Yes	No
13.	These shoes shall carry the weight of the plow when the moldboard trips.	Yes	No
14.	The bottom of the moldboard is to be reinforced with a 1/2" x 6" x 4" backer angle.	Yes	No
15.	A second angle 3/8" x 3" x 2" shall be welded above for added strength and rigidity	Yes	No
16.	The drive frame shall be of A frame and sector design.	Yes	No

17.	The A frame will be constructed of 3 1/2" x 3 1/2" x 1/4" square tubing with two 3/4" thick pivot plates.	Yes	No
18.	Sector frame constructed of 4" x 4" x 3/8" square tube.	Yes	No
19.	The sector angle shall provide a 30° radius and be constructed of 1/2" x 3 1/2" x 2 1/2" steel.	Yes	No
20.	To prevent wear, the sector will glide between two low friction replaceable polymer bearings bolted on the A frame.	Yes	No
21.	There shall be two 3" x 14" double acting hydraulic cylinders to reverse the plow to a maximum of 35 right or left.	Yes	No
22.	Moldboard shall be fitted with (2) moldboard shoes and scuff shoes shall be supplied on each end.	Yes	No
23.	A 5/8" X 8" X 144" steel cutting edge shall be supplied and bolted to the moldboard.	Yes	No
24.	Three 3/8" lift chains shall be provided to lift the plow to the carrying position.	Yes	No
25.	These chains must be as wide spread as possible in order to make the plow stable, and the plow must remain level when carried.	Yes	No
26.	It will be possible to perform the power angle function with the plow in both the lowered working position and the raised carrying position.	Yes	No
27.	Four hinge points are to be provided to connect the moldboard to the pushframe, spanning a minimum distance of 80".	Yes	No
28.	To prevent damage to the reversing cylinders a cross-over relief valve shall be supplied.	Yes	No
29.	Drive frame shall be complete with an adjustable parking stand.	Yes	No
30.	All steel shall be epoxy primed prior to application of finish paint.	Yes	No
31.	All paint finishes shall be top quality, rust resistant black.	Yes	No
32.	"Quick tack" oscillating beam shall be supplied.	Yes	No
33.	A 12" wide rubber deflector strip shall be installed.	Yes	No
34.	(2) Two 36" florescent markers to be installed.	Yes	No
35.	Warranty one-year minimum parts and labour.	Yes	No

One 2012 Diesel Powered Tandem Truck complete with Snow Plow Harness, Two Way Plow, Wing and All Season Dump Body/Spreader

Make: _____
Model: _____

Price for Truck Only: \$ _____
Subtotal: \$ _____
HST: \$ _____

Price for all other equipment
Including; Snow Plow Harness,
Two Way Plow, Wing and All Season
Dump Body/Spreader \$ _____
HST: \$ _____

Total tendered price including HST
F. O. B. Warsaw Depot for Truck and all Equipment \$ _____

Price for Options
Price for Optional Barnstyle Tailgate \$ _____
Price for Air Ride Control \$ _____
HST: \$ _____

Dated at _____ this _____ Day of _____ 2011.

Witness

Signature of Authorized Person

Print Name

Name of Firm

Position in Firm

Snow Plow Harness, Two Way Plow, Wing and All Season Dump Body/Spreader

If Supplier for Plow Harness, Two Way Plow, wing and All Season Dump Body/ Spreader is different than the Truck please have supplier sign this page.

Dated at _____ this _____ Day of _____ 2011.

Witness

Signature of Authorized Person

Print Name

Name of Firm

Position in Firm