



The Corporation of The Township of Perry

## **Tender No. 2018-01**

### **Tandem Plow Truck**

**Tender Closing: Tuesday April 10, 2018 3:00pm**

**Tender Opening: Tuesday April 10, 2018 3:30pm**

**Report to Council: Wednesday April 18, 2018**

**Sealed Tenders must be clearly marked and submitted to:**

**Tender No. 2018-01 New Tandem Plow Truck**

Kim Seguin Treasurer

The Corporation of the Township of Perry

Box 70, 1695 Emsdale Road

Emsdale, Ontario P0A 1J0

*The Township is part of the Broader Public Sector of the Province of Ontario and as such is entitled to the concessions (discounts) on vehicles included in arrangements made by the Ministry of Government Services.*

**NOTE: Lowest or any tender not necessarily accepted**

# TENDER

Instructions to Tenderer:

## 1. DEFINITIONS

In this Tender, as well as in all specifications, the following definitions shall apply unless otherwise indicated:

- (a) "Township" means the Township of Perry;
- (b) "Tenderer" means the individual, firm, company, or corporation submitting a Tender to the Township;
- (c) "Work" means any of the under noted or any combination thereof:
  - supply or provision of articles or materials;
  - supply of Labour;
  - performance of functions or tasks;
  - provision of services;
  - equipment operated or not operated; or
  - construction or repairs as specified;
- (d) "Treasurer" shall mean the Treasurer of the Township of Perry.

## 2. SCOPE OF WORK

The Work includes the supply of all labour, equipment and materials as specified or as necessary at the Tenderer's entire expense to perform the work as described in Schedule "A".

## 3. BASIS FOR ACCEPTANCE OF TENDER SUBMISSIONS

Tenders shall be prepared on the form provided in Schedule "B" and are to be sealed and submitted in an envelope and identified as a Tender for the contract described on the Tender cover sheet.

Tender must be legible, in ink, by typewriter or by printer.

Tender must be in possession of the Township by the closing date and time.

Tender must be on form provided.

Tender must be signed and sealed by an authorized official of the Tendering organization. A joint Tender must be signed and sealed by each company.

Tenders must not be restricted or modified in any way.

Tenderers need not be present at the opening of their Tender unless specifically invited for the purpose of explaining some detail pertaining to their Tender.

Tenderers will be advised in writing, of the acceptance or otherwise of their Tender as soon as the contract has been finally awarded.

**Potential suppliers are advised that requests for specification information and technical inquiries are to be directed in writing to Kim Seguin, Treasurer Township of Perry at [kim.seguin@townshipofperry.ca](mailto:kim.seguin@townshipofperry.ca)**

Notification of Acceptance of Tender will be by telephone and written form of notice, to the address of the Contractor used on the Tender forms. The Date of Acceptance shall be deemed to be the date of receipt of the Acceptance Notice by the Contractor.

A Tender may be voided by superseding it with a later Tender or letter of withdrawal, prior to the closing date and time.

4. TAXES, DUTIES AND FREIGHT

Prices shall include all Federal taxes and duties, Provincial taxes and Exemptions as shown. All rebates or refunds of taxes, where applicable, shall be collected and held by the Township.

Prices shall be F.O.B. destination shown and shall include all fees, charges, surcharges and/or expenses associated with the delivery of any kind.

5. AWARD

The Township reserves the right to award by item, or part thereof, a group of items, or parts thereof, or all items of the Tender, and to award contracts to one or more Tenderers submitting identical Tenders as to price; to reject any and all proposals in whole or in part; to waive technical defects, irregularities and omissions if, in so doing, the best interest of the Township will be served.

The Township reserves the right to make awards within thirty (30) days from the date Tenders are opened, unless otherwise specified in the Tender, during which period proposals shall not be withdrawn unless the Tenderer distinctly states in his Tender that acceptance thereof must be made in a shorter specified time.

A Tenderer must be prepared, if requested, to present evidence of experience, ability, service facilities and financial standing necessary to meet satisfactorily the requirements set forth or implied in the Tender.

6. CONTRACT

Receipt of the goods, materials, equipment, work or service shall not waive any of the terms and conditions hereof. Defective goods, materials or equipment will be returned at the supplier's risk and expense.

Failure to deliver and/or complete within the times set out within this document, shall entitle the Township to cancel this Tender without incurring or being liable for any costs, fees, charges or surcharges of any kind whatsoever. Time is to be of the essence of this Tender.

7. NO ALTERATIONS/VARIATIONS

No alterations or variations of the terms of the Tender shall be valid or binding upon the Township unless authorized in writing by the Treasurer or his/her designate.

8. NO ASSIGNMENT

It is mutually agreed and understood that the Tenderer shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his/her right, title or interest therein, or his/her power to execute such contract to any other person, firms, company or corporation without the previous written consent of the Township.

9. NOTICE TO TENDERER

Any notice in writing to be given to the Tenderer in relation to any matter arising under the contract or in respect of the work to be done hereunder may be given by delivering same to the Tenderer, or the Tenderer's representative for the time being, or by mailing the same addressed to the Tenderer at such address as he/she may have specified. Notice may be given by prepaid registered mail to the last address known personally to the Treasurer and shall be deemed to have been received seventy-two (72) hours after sending by prepaid registered mail.

In the event that the Treasurer in his/her sole discretion determines that an emergency condition exists, such notice shall be deemed to be given two (2) hours after notice by email/fax having been sent to the last address personally known to the Township.

10. NOTICE TO THE TOWNSHIP

Any notice given to the Township shall be in writing and delivered personally to the office of the Treasurer of the Township of Perry.

11. DELIVERY

Any equipment delivered must be standard new equipment of the latest model except as otherwise specifically stated in the Tender. Where any part or nominal appurtenances of equipment is not described, and is usually provided in the manufacturer's stock model, it shall be furnished.

Materials and supplies must be new items except as otherwise specifically stated in the Tender specifications.

Delivery must be made as ordered and in accordance with the Tender. If no delivery instructions appear in the Tender, the Tender will be interpreted to mean prompt delivery. The burden of proof of delay in receipt of an order shall rest with the Tenderer.

Commodities shall be securely and properly packed for shipment according to accepted standard commercial practice without extra charge for packing materials or containers. The containers to remain the property of the Township unless otherwise stated in the Tender.

Where materials are furnished for a specified price per unit of weight, the Township reserves the right to require such materials to be weighed on scales designated by it, at shipper's expense, in which case payment shall be made on the basis of the new weight of the materials furnished.

12. INSPECTION

The inspection of all commodities and the making of chemistry and physical tests to determine whether or not the specifications are being complied with shall be made in the manner prescribed by the Township.

Any item which fails in any way to meet the terms on the contract is subject to rejection or to be paid to an adjusted price basis. The decision of the Township to reject or to pay on an adjusted price basis shall be final.

13. RISK

The work shall remain at the risk of the Tenderer until delivery of the work covered by this Tender.

14. MATERIALS

All materials required by the contractor in carrying out the terms of this contract shall be supplied at his/her expense.

15. FAILURE TO DELIVER OR REJECTION

Failure of a Tenderer to deliver within the time specified or within reasonable time as interpreted by the Township or failure to make replacements of rejected commodities when so requested, will constitute authority for the Township to purchase in the open market to replace the commodities rejected or not delivered. The Township reserves the right to authorize immediate purchases in the open market against rejection on any contract when necessary. On all such purchases, the Tenderer agrees to promptly reimburse the Township for excess costs occasioned by such purchases. Such purchases will be deducted from contract quantities. However, should public necessity demand it, the Township reserves the right to use or consume commodities which are sub-standard in quality, subject to adjustment in price to be determined by the Township.

When commodities are rejected, same must be removed by the Tenderer from the premises of the Township within five (5) days after notification unless public health and safety required immediate destruction or other disposal of such rejected delivery in which case, the Township may take such action as it deems necessary. Rejected items left longer than five (5) days will be considered as abandoned and the Township shall have the right to dispose of them as its own property.

The Township reserves the right to make the Tenderer ineligible to submit Tenders to the Township for an indeterminate period for failure to accept a contract or for unsatisfactory performance of a contract.

16. PAYMENT

No money shall become due or be payable under this contract unless and until a certificate thereof shall have been signed by the said Township or its designate. The possession of which is hereby made a condition precedent to the right of the Tenderer to be paid or to maintain any action for such money or for any part thereof.

17. CANCELLATION OR DELETION

The Township reserves the right to reject any or all Tenders and the lowest or the highest, as the case may be, will not necessarily be accepted.

The Township reserves the right to cancel or delete any portion of the work outlined and the Tenderer agrees to such cancellation or deletion without claim whatsoever because of such cancellation or deletion.

The Township in its uncontrolled and unfettered discretion, may declare a specific work not within the intent of this contract because of scope or quantity and reserves

the right to call and let a separate Tender for a similar work covered hereby and the Tenderer acknowledges such right and waives any claim for the Township exercise thereof in good faith.

In the event that this Tender is not submitted to Council, notwithstanding the acceptance of a Tender or the awarding of the contract by the Township, the contract shall not become effective and shall not be binding upon the Township until a written contract embodying the instructions, specifications, terms and conditions set out in the Tender documents and the accepted Tender of the successful Tenderer, has been signed by the Treasurer.

In the event that this Tender is submitted by Council, notwithstanding the passage by Council and any By-Law or Resolution accepting a Tender or awarding the contract, the contract shall not become effective and shall not be binding on the Township until any conditions precedent set out in the said By-Law or Resolution accepting the Tender or awarding the contract concerned, have been complied with and until a Resolution authorizing execution of a written contract by the Mayor and Treasurer has been passed by Council and the written contract executed by the Mayor and Treasurer and the corporate seal affixed thereto.

In the event of strikes, accidents or unexpected events causing stoppage of work, the Township reserves the right to suspend the contract.

18. WITHDRAWAL OF OFFER

The Tenderer who has submitted an offer may request that his/her offer be withdrawn. The withdrawal shall be allowed if the request is made before the closing time for the receipt of offers. Withdrawal requests must be directed to the Treasurer by letter, e-mail or in person. Telephone requests will not be considered. When withdrawals are made in person, the Treasurer shall obtain a signed withdrawal form confirming the details of the withdrawal. Offers confirmed as withdrawn prior to being placed in the Tender box shall be returned unopened to the Tenderer. Withdrawal notices received after the offer has been deposited shall, together with the confirmation or withdrawal, be placed in the Tender Box. These Tenders will be dealt with at the opening of offers by announcing that the offer has been withdrawn. The Tender amounts in a withdrawn offer shall not be read.

The withdrawal of an offer does not disqualify a Tenderer from submitting another offer.

19. HOLD HARMLESS

The Tenderer upon acceptance hereby agrees:

To indemnify and keep indemnified and save harmless the Township and each of its officers, servants and agents from and against all actions, suits, claims, executions, and demands which may be brought against or made upon the Township, its officers, servants and agents, from all loss, costs, charges, damages, liens and expenses which may be paid, sustained or incurred by the Township, its officers, servants and agents by reason of, or on account of, or in consequence of its acceptance of this Tender or of the performance thereof.

To pay the Township and to such officer, servant or agent thereof, on demand, any loss, costs, damages or expenses which may be paid, sustained or incurred by the Township or any of its officers, servants or agents in consequence of any such action, suit, claim, lien execution or demand, and any monies paid and payable by the Township or any of its officers, servants or agents, in settlement or in discharge or such payment all account thereof, and that in default of such payment all such loss, costs, damages and expenses, and any monies paid or payable by the Township, its officers, servants or agents, and any monies payable by the Tenderer under any of the terms and conditions of this Tender may be deducted from any monies of the Tenderer than remaining in the possession of the Municipal account of this or any other contract, or may be recovered from the Tenderer, the surety or sureties named in the bond hereto attached in any court of competent jurisdiction as monies paid at their request or under any letter of credit.

The Tenderer hereby authorizes and empowers the Township or its solicitor for the time being, to defend, settle or compromise any of such actions, suits, claims, liens, executions or demands as the Township or its said solicitor may deem expedient and also hereby agrees to ratify and confirm all acts of the Township or its solicitor in that behalf, and to pay to the said settling, or compromising any such actions, suits, claims, liens, executions or demands as the Township may deem it expedient to defend, settle or compromise, and that in default of such payment, the same may be deducted from any monies payable by the Township to the Tenderer on any account whatever.

20. PIGGYBACK OPTION

Any resultant contract between the successful Bidder(s) and the Township may be accessed by any public agency. The successful Bidder and any additional agencies will enter into their own separate agreements for the goods and services. Additional Township Departments requiring similar vehicles may access the successful proposal and negotiate a purchase of a vehicle.



21. ADDITIONAL UNITS.

Whereas Tender 2018-001 is for the purchase of 1 New Tandem Plow Truck. Council may consider purchasing up to one (1) additional unit dependent upon the submission of the tender documents and budget funding allocation. If council so desires to purchase more than one unit, the Tenderer will be notified prior to placing the order.

22. THE TENDERER DECLARES THAT:

- a) No person, other than the Tenderer has any interest in this Tender or in the contract proposed to be entered into.
- b) This Tender is made without any connection, knowledge, comparison of figures or arrangements with any other person or persons, making a Tender for the same work, and is in all respects fair and without conclusion or fraud.
- c) The several matters stated in the said Tender are in all respects true.
- d) The Tenderer has carefully examined the locality and site of the proposed works and offers to enter into a contract and to do all the work, on the terms and conditions set forth, and the schedule of prices hereto annexed, and the Tenderer also agrees that this Tender is to continue open to acceptance until this Tender is executed on behalf of the Township. The Township may at any time without notice, accept this Tender whether any other Tender has been previously accepted or not, and the Tenderer hereby agrees that if the Tenderer withdraws this Tender before completion, the full amount of the Tender deposit shall be forfeited to the Township.

23. WARNING TO PERSONS SIGNING

- (a) If the Tenderer is a Corporation, the Corporate seal must be affixed under the signature of a duly authorized officer or officers of the Corporation stating the position held.
- (b) If the Tenderer is not a Corporation or a partnership, the Tenderer must sign in the presence of a witness who must also sign.
- (c) If the Tenderer is a partnership, each member of the partnership must sign in the presence of a witness who must also sign.
- (d) The Owner covenants with the Contractor that the Contractor having in all respects complied with the provisions of the Contract, will be paid for and in respect of the works the sum of \_\_\_\_\_dollars, and subject to such additions and deductions as may properly be made under the terms hereof, subject to the provision that the Owner may make payments on account monthly or otherwise as may be provided in the General Conditions attached hereto.

DATED AT \_\_\_\_\_ THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

TENDERER SIGN HERE

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Title)

THE CORPORATION OF THE  
TOWNSHIP OF PERRY  
PER

\_\_\_\_\_  
Norm Hofstetter, Mayor

PER

\_\_\_\_\_  
Beth Morton, Clerk /Administrator

**SCHEDULE "A"**

TO TENDER - Specifications

2017 or newer PUBLIC WORKS TANDEM PLOW TRUCK IN NEW CONDITION

Plow and Sander Controls Shall Be Adjustable to the Satisfaction of The Manager of  
Public Works and Facilities Prior to Initial Delivery

**Delivery Date            On or before September 4, 2018**

<b>PROPONENT</b>		
This specification only lists the major components of a unit; therefore, it is the responsibility of the vendor to deliver a complete functioning unit to provide dependable and efficient service.		
<b><i>Specification</i></b>	<b>YES</b>	<b>NO</b>
Proponent must be a licensed motor vehicle dealer in good standing with the Ontario Motor Vehicle Industry Council.		
Proponent must be a licensed motor vehicle Inspection Station for class of vehicle being supplied.		
Proponent must have a valid Commercial Vehicle Operators Record (CVOR), and proof of liability insurance.		
<b>CAB AND CHASSIS</b>		
New Vehicle 2017 or newer, State Actual Year: _____		
Specify make: _____ Model: _____		
<b><i>Specification</i></b>	<b>YES</b>	<b>NO</b>
Minimum GVWR 68,000 lbs		
Set back Front axle to be provided		
Trailer towing package to be provided with air connection at end of frame. To allow trailer turning without restriction on air lines		

<b>ENGINE</b>		
Specify Engine Make: _____ Model: _____		
<b>Specification</b>	<b>YES</b>	<b>NO</b>
Detroit Diesel minimum 6-cylinder engine, must be emission compliant		
Minimum 12.7 Litre displacement. Specify displacement: _____		
Minimum overall ratings are 470HP/ 1650ft-lbs torque		
Ratings must be set at factory level and not altered by dealer before delivery		
Engine must have warning and de-rate protection		
Engine diagnostic information must be capable of sending error codes over network while vehicle is in use. Provide details on separate sheet. (i.e. Virtual Technician) First 2 Years to be included with cab & chassis.		
Alternator minimum 160 AMP		
3 Batteries to be provided, minimum 3,000 CCA		
Battery to be stored inside cab or come with box to have HD aluminum cover if batteries placed outside cab		
Air intake to have inside/outside switch with snow door		
Heavy duty air compressor, minimum 19.0 CFM		
Must have Jacobs engine brake as standard		
Exhaust shall be horizontal after treatment system mounted under RH steps with horizontal tail pipe under frame. <b>Mounting must not interfere with box or wing tower.</b>		
Stainless steel heat shields		
Antifreeze should be good to -60 degrees Celsius minimum		

<b>Specification</b>	<b>YES</b>	<b>NO</b>
Engine to have front PTO adapter for body builder supplied hydraulic pump		
1500-Watt hydraulic heater		
1500-Watt inline heater for coolant system		
300-Watt Block Heater or pan heater		
HD starter required with over-crank protection		
<b>TRANSMISSION</b>		
<b>Specification</b>	<b>YES</b>	<b>NO</b>
Eaton 13 speed transmission		
State model: _____		
Self-adjusting clutch with hydraulic control		
Water to oil transmission cooler, with synthetic oil		
RPM in top gear at 105 kph/65mph should be suitable for highway cruise speed transportation while maintaining vocational performance.		
State actual: _____		
<b>AXLES &amp; SUSPENSION</b>		
<b>Specification</b>	<b>YES</b>	<b>NO</b>
Meritor 22,000lb front axle, Model: MFS-20-133A FL1		
Flat Leaf 23,000lb front suspension		
Twin power steering gear		
Power steering cooler, oil to air		
Meritor 46,000lb rear axle, Model: RT-46-164 R-Series		
Extended lube Meritor RPL driveline		
Ratio 4.56, with full lock up on both tandem drive axles controlled by the operator inside the cab		
Turf Trac 46,000# rear spring suspension with 56" Spread		
Shock absorbers on front and rear suspension		

<b>Specification</b>	<b>YES</b>	<b>NO</b>
Dust Shield front and rear brakes		
<b>FRAME COMPONENTS</b>		
<b>Specification</b>	<b>YES</b>	<b>NO</b>
Air dryer AD9, mounted inside frame		
Standard air tanks, mounted inside and below frame near rear suspension. Must be clear of wing tower and spinner installation.		
Pull-type drain cables on all air tanks		
Air connections to end of frame to towing provision		
Combination stop/turn light receptacle end of frame.		
Wheelbase and CA to be confirmed with body builder, dimension minimum 128" CA. Specify		
Double channel frame 7/16" x 3-9/16" x 11-1/8"		
Inner channel to be 1/4" full length		
Front frame extensions minimum 24", with frame insert		
Rear frame overhang as required by body builder		
O.E.M. back of cab, MTO cross member for snow plow		
Painted steel bumper to be provided for reinstallation if front equipment harness is removed for summer.		
<b>FUEL SYSTEM</b>		
Minimum 70-GAL aluminum fuel tank specify		
Fuel tank mounted with stainless steel bands		
Minimum 6-GAL Def tank		
Factory insulation for fuel lines required		

<b>WHEELS AND TIRES</b>		
<b><i>Specification</i></b>	<b><i>YES</i></b>	<b><i>NO</i></b>
<b>Steer Tires</b>  Make: Saliun Model: S815 Winter M+S Load Range L (Mountain Snowflake Rating)  Size: 315/80 R22.5 20 ply		
<b>Drive Tires</b>  Make: Michelin Model: XDE M/S Load Rating: H  Size: 11R22.5 14 Ply Mountain Snowflake Rating		
Steel HD Front Wheels, 12.25" wide, hub pilot		
Steel HD rear wheels, powder coated white hub pilot		
Nylon wheel guards between all hubs and wheels		
Iron HD hubs required front and rear		
<b>CAB EXTERIOR</b>		
<b><i>Specification</i></b>	<b><i>YES</i></b>	<b><i>NO</i></b>
Air cab mounts		
3-1/2 fender extensions		
Non-removable bug screen mounted in grill		
Hood with access hatches for checking oil		
Premium floor and firewall insulation		
Dual rectangular air horns mounted on cab with covers		
LED aerodynamic marker lights on cab roof		
LED rear indicator lights		
Back up Alarm		
Bright Finish, remote controlled mirrors		
Power Locks and windows		

<b>Specification</b>	<b>YES</b>	<b>NO</b>
Door mounted Dual West Coast heated mirrors with LH & RH remote		
8" round convex mirror mounted under primary mirrors		
Diamond plate after treatment system cover		
Factory installed sun visor		
Washer fluid reservoir with level indicator		
OEM heated windshield with automatic operation		
<b>CAB INTERIOR</b>		
<b>Specification</b>	<b>YES</b>	<b>NO</b>
Vinyl interior covering neutral colour: State Colour: _____		
Roof mounted storage compartment		
Centre storage console mounted on back wall		
2.5lb fire extinguisher and first aid kit provided		
Triangle reflector kit with flares		
HD heating unit with air conditioning		
Minimum Two Cup Holders		
Additional factory fit rubber floor mats provided		
Snow shield for fresh air intake		
Premium insulation package		
Dual reading lights in cab roof		
2 power point connection in dash		
Matching driver and passenger premium air ride seat with both arm rest		
Adjustable tilt-telescopic steering		
Interior flip down sun visors		



<b>Specification</b>	<b>YES</b>	<b>NO</b>
Standard instrument panel with gauge package		
Dash mounted air restriction indicator		
Transmission and engine oil temp gauges		
Inside/outside air temp gauge		
Ground Temperature Sensor		
AM/FM/AUX Bluetooth/Microphone Standard Radio with voice command		
Roof console provision for CB radio prewire		
Premium AM/FM multiband antenna		
Factory provided minimum 8 optional switches wired to back of cab with relays for body builder use		
Vehicle interface and high amp PDM for body builder		
Pre-trip light check inspection switch		
Trailer brake spike control		
Voltage display in dash		
HD winter wiper blades and washer system		
Factory pre-wire for integrated snow plow lights with OEM signal stat and dash switch		

<b>ADDITIONAL SPECIFICATIONS</b>		
<b><i>Specification</i></b>	<b>YES</b>	<b>NO</b>
Cab paint to be one solid colour, base clear process, Colour code to be L0214EB Red Elite BC or equivalent		
Body Paint to match cab colour		
Frame and mounted components to be painted black		
Rust proofing spray to be applied to completed vehicle including wax on all exterior wires before INITIAL DELIVERY		
<b><i>Specification</i></b>	<b>YES</b>	<b>NO</b>
Chassis and powertrain warranty to be 5 YEAR OR 100,000 KM COMPREHENSIVE DETAILS TO BE PROVIDED ON SEPARATE SHEET		
Thumb drive with digital shop and parts and <b>service</b> manual required		
Two-year unlimited kms towing/roadside service extended coverage Attach Details separately		
Final delivery to be received at 86 Old Government Road Emsdale Ontario. Training session to be provided on all components with a Record of Training Letter provided to the Township of Perry.		
CHASSIS TO MATCH WITH EQUIPMENT SELECTION AND IT IS THE RESPONSIBILITY OF THE VENDER TO CONFIRM ANY DIMENSIONS AND CLEARANCE ISSUES.		
PROVIDE MINIMUM OF <b>5 REFERENCES</b> WHERE SIMILAR EQUIPMENT HAS BEEN SUPPLIED <b>ATTACH WITH SCHEDULE D</b>		

## ALL SEASON COMBINATION DUMP BODY / SPREADER

### General

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 of a roll-formed type design to permit gravity flow unloading, and prevent material bridging over conveyor chain. The body side panels shall be smooth rolled without breaks. Body designs that include breaks will not be accepted and will deem their bid inadmissible. The main conveyor will be centered and recessed along the length of the box. The cross-conveyor chain will be chassis frame mounted with spreader discharge on the front, left side (driver's) of dump box.

Viking Model Proline PL1415HW Generation II or **Equivalent** – other makes must be approved by the **Township of Perry** prior to the closing of this tender.

SPECIFY

MAKE: \_\_\_\_\_

MODEL: \_\_\_\_\_

<b>COMBINATION DUMP BODY</b>		
<i><b>Specification</b></i>	<i><b>YES</b></i>	<i><b>NO</b></i>
Body shall be oval shaped, permitting materials to unload by gravity flow into spreading position.		
Water level capacity will be 12.0 cu.yd., minimum. Bodies of less capacity will not be accepted.		
Water level capacity with 10" sideboards will be 15.0 cu.yd., minimum.		
Outside length 15' minimum.		
Inside length 14' minimum.		

<b>Specification</b>	<b>YES</b>	<b>NO</b>
Overall width 8' maximum.		
Height of sides to be 50" minimum.		
Height of tailgate to be 55" minimum.		
Height of front panel to be 60" minimum.		
Top rail of body sides will be 6" x 4" x 3/8" structural rectangular tubing – a break-formed type steel top rail support system will not be acceptable.		
All body welds will be 100% continuous inside and outside.		
Body sides, front panel and tailgate will be constructed of 3/16" thick, Corten corrosion resistant steel.		
Body floor will be constructed of 3/16" thick, Hardox 450, hi-tensile, 205,000 psi yield strength, abrasion resistant steel.		
Dump box access ladder shall be 16" wide, recessed and be flush with dump body top rail and fender. The ladder must slope inward from bottom to top and be located on driver's side at front of box.		

<b>HOIST</b>		
<b><i>Specification</i></b>	<b><i>YES</i></b>	<b><i>NO</i></b>
Hoist shall be a front mount, three (3) stage telescopic with 5" bore – must be Mailhot model CS130-5.5-3 – alternate or inverted type hoists will not be acceptable.		
Hoist class shall be 80/30 ton.		
Cylinder stroke shall be 330 cm (130") minimum.		
Dump box tipping angle shall be a minimum of 50 degrees.		
Rear hinge assembly shall be supplied with hinge pin dia. of 2.5" minimum.		
Hoist control valve shall be air operated.		
<b>TAILGATE</b>		
<b><i>Specification</i></b>	<b><i>YES</i></b>	<b><i>NO</i></b>
Tailgate height shall be 55" minimum.		
Tailgate shall be rectangular shaped to allow use of asphalt or stone chip type spreaders.		
Construction shall be of 3/16" thick, Corten corrosion resistant steel		
Exterior vertical side support tubes to be 3 ½" x 3 ½" x ¼" wall HSS square tubing – no exception.		
Latch mechanism for the tailgate shall be air trip and latch type utilizing two air pot boosters – units with only a single air pot booster, or air cylinder to activate tailgate, will not be acceptable.		
Spreader chains and brackets shall be supplied on tailgate and rear corner posts. Chains shall be grade 70 coil proof 5/16" minimum.		
<b>Asphalt door</b> in tailgate suitable for sliding chain protector plate out through door shall be provided. Cantilevered handle offset to curbside to operate sliding door.		

<b>CONVEYOR</b>		
<b><i>Specification</i></b>	<b><i>YES</i></b>	<b><i>NO</i></b>
The main conveyor shall be recessed along the length of dump box floor.		
The conveyor chain shall include the minimum specifications: <ul style="list-style-type: none"> <li>- 30,000 lbs. tensile strength</li> <li>- D667X self cleaning pintle chain – no exception</li> <li>- utilizes ¼” x 1 ¼” crosses welded to every 4<sup>th</sup> link (approx. 9” apart)</li> </ul>		
The main conveyor shall be hydraulic direct drive via planetary drive mechanism providing a minimum of 38,000 lbs., torque capacity and 50,000 in/lbs peak. Standard 25:1 gear reducers will not be acceptable.		
Connection of the planetary drive shaft to the main conveyor shaft shall be accomplished via a split two-piece coupler assembly.		
Each of the two body long sill weldments will be vertical slotted. By simply removing the drive shaft flange bearings and uncoupling the planetary and main conveyor drive shafts, the entire conveyor drive shaft assembly will drop out through the vertical long sill slots providing easy access and simple maintenance.		
Idler end of main conveyor will also be of the vertical slotted drop out design as described above.		
Conveyor chain tension to be regulated via an automatic chain tensioning system. This tensioning system will provide appropriate chain tension for the main conveyor chain at all times and under all normal operating conditions.		
The fully automated chain tensioner will eliminate the requirement for any manual chain tension adjusting mechanisms such as conventional threaded rod and nut tensioners, or hydraulic grease ram tensioners.  Automated chain tensioner system must be provided – no exception.		
Bolt-on door panel shall be provided for easy access to automatic chain tensioning mechanism. Access panel to be located on body long member.		
Underside of main conveyor to have poly guard to prevent material spillage on to chassis components and frame rails.		
The flow control gate between main and cross conveyor shall be screw adjustable by hand crank from driver’s side of dump body.		

<b>CROSS CONVEYOR</b>		
<b><i>Specification</i></b>	<b>YES</b>	<b>NO</b>
The cross conveyor shall be hydraulic direct drive via a single reversible 11.9 cu. in. hydraulic motor controlled by a 12V solenoid valve with in cab toggle switch.		
A bi-directional rubber belt cross conveyor assembly shall be used to discharge material from main conveyor to either the left hand or right-hand side of chassis.		
Cross conveyor assembly to mount on chassis frame independent from and in front of main combination spreader unit.		
Cross conveyor unit shall be removable design to reduce added weight in non-spreading applications.		
Cross conveyor weldment shall be fabricated from a minimum 3/16" Cor-Ten A corrosion resistant material.		
Cross conveyor rubber belt to be fabricated from 3/8" thick, 2 ply, 12" wide by 121" long molded, seamless conveyor belting.		
Belt shall be positive drive to eliminate slippage.		
The cross-conveyor belt shall have a high temperature, asphalt application available.		
Cross conveyor assembly to include replaceable steel guards to prevent material from entering under belt or spilling off conveyor.		
Cross conveyor assembly to include 4 poly runners to maintain an even belt surface, preventing material from getting under belt.		
Cross conveyor assembly shall have snub rollers constructed with high temperature, low stick, 2.5" diameter by 2.0" poly rollers, to reduce material build up under conveyor.		
Cross conveyor assembly shall come with external, quick coupler washout connection.		
Cross conveyor assembly shall include 5 external, greaseable flange bearings and 2 external, greaseable take up bearings		
Cross conveyor assembly shall include 8 external grease fittings for application of grease to all bearings.		
Cross conveyor assembly to provide provisions for mounting of material sand/salt chutes and spinner units.		

<b>SPINNER</b>		
<b><i>Specification</i></b>	<b><i>YES</i></b>	<b><i>NO</i></b>
A polyurethane spinner shall be installed on the left-hand side (Driver side) to spread ahead of rear wheels.		
Spinner disc will be hydraulic direct drive and to include a clean - off <b>anti coning device</b> .		
Spinner height shall be adjusted to accommodate various chassis heights and capable of a discharge rate from 199 lbs./lane mile to 2,500 lbs./lane mile.		
A poly lined hinged extendible salt chute shall be installed on the left side.		
A standard chute only is to be mounted on the right side of the cross conveyor.		
<b>SANDER CONTROLS</b>		
<b><i>Specification</i></b>	<b><i>YES</i></b>	<b><i>NO</i></b>
Ace Ecobite II Basic electric/hydraulic ground speed oriented manual spreader control – no exception. 2 section Ace valve assembly for conveyor and spinner functions to be included, and installed on tower or integrated into tower. There shall be no hydraulic hoses inside cab.		
<b>GPS SYSTEM</b>		
<b><i>Specification</i></b>	<b><i>YES</i></b>	<b><i>NO</i></b>
Ace Infobite wireless GPS System including required wiring harness and GPS module.		
<b>FENDERS AND FLAPS</b>		
<b><i>Specification</i></b>	<b><i>YES</i></b>	<b><i>NO</i></b>
Fenders shall be continuous along the full length of dump body to provide cover for rear wheels and to protect the body. Fenders to be fabricated from minimum 10 GA Cor-ten “A” corrosion resistant steel.		
Integral fenders to be sloped away from unit (material shedding design) to prevent any excess material spilled during loading from pilling up on fenders.		
Red/White 2” reflective tape to be installed along body fenders and across bottom of tailgate.		



<b>Specification</b>	<b>YES</b>	<b>NO</b>
<p>Aluminum fenders covering the rear axle shall be bolted to each side of the body, through specific mounting brackets designed to fit inside the body fenders. The aluminum fenders shall raise and lower with the body.</p> <p>Fenders attached to the side of the chassis frame rails will not be acceptable.</p>		
<b>PAINT</b>		
<b>Specification</b>	<b>YES</b>	<b>NO</b>
The dump body shall be shot blasted and epoxy primed with 3 mils of Dupont DTM type primer.		
Finish paint shall be Dupont Imron 5000 "ELITE" polyurethane enamel and colour matched paint code L0214EB Red Elite BC to the truck cab – Dupont Imron 5000 Elite finish paint must be utilized – no exception.		
Specify Paint Manufacturer: _____.		
Specify Paint Type: _____.		
Finish Paint to be a " <b>Baked On</b> " process (no substitutes).		
<b>LOAD COVER</b>		
<b>Specification</b>	<b>YES</b>	<b>NO</b>
An air tarp shall be supplied with fabricated tarp arms dimensions of 1 ½" x 2 ½" rectangular steel tubing, and a 1/8" asphalt type mesh tarp. Tarp to be operated by twin air cylinders operated from inside the cab. Electric type tarp mechanisms, and air tarps utilizing air motors in lieu of cylinders, will not be acceptable.		
<b>PINTLE HOOK</b>		
<b>Specification</b>	<b>YES</b>	<b>NO</b>
A Holland PH410RA pintle hook with air cushion shall be installed onto a heavily reinforced pintle plate. Two (2) tow hooks shall also be mounted onto the pintle plate. Body builder shall relocate the chassis supplied glad hands and 7 pin trailer plug onto the pintle plate. Glad Hands shall be swing away glad hands.		

<b>AUTOMATIC GREASING SYSTEM</b>		
<b><i>Specification</i></b>	<b>YES</b>	<b>NO</b>
A CPL Greoneveld auto-grease system shall be provided, with grease lines to all applicable chassis, body, plow and wing grease points. <b>Must include a fitting kit for all fitting, to complete maintenance by operator on site. Must include any specialty tool required for onsite repairs.</b>		
<b>LIGHTS AND WIRING</b>		
<b><i>Specification</i></b>	<b>YES</b>	<b>NO</b>
All box lights to be LED type.		
<b>Grote “Ultra Blue Seal”</b> wiring harness for body lights & electrical shall be supplied (no substitutes).		
Auxilliary lighting will plug directly into OEM supplied connections. <b>Cutting, splicing, soldering or shrink tubing of connections is not acceptable.</b>		
Box lighting kit to include Ultra Blue Seal LED rear stop lights, tail lights, turn signals, and back-up lights, and shall be installed in rear corner posts.		
Tower Post Light to be install offset just off the back post closer to the box pointing at the bottom of the wing.		
Dual heat creating back up lights minimum 800 lumens		
Grote blue and amber <b>LED</b> strobe lights to be high mounted in each upper rear corner posts for maximum visibility.		
Spinner and cross conveyor lights shall be supplied, with separate in-cab switches.		
<b>Conspicuous H Pattern Rear Lighting compliant with MTO Board style without the board:</b> Blue lights flash at a synchronized 1hz rate (one flash per second). Amber light to remain continuously illuminated. A combination of wind deflectors air foils and heated lenses are required to keep warning lights clear of snow  Blue and amber incandescent warning lights to be installed below tailgate, centre of rear axle. <b><i>Solutions must be clearly stated</i></b>		

<b>Specification</b>	<b>YES</b>	<b>NO</b>
Star 200B blue and 200A amber revolving beacon lights shall be installed on pedestal attached to top of oil reservoir behind cab. Beacon lights shall be visible 360° around vehicle.		
<b>All exterior wires to be treated with wax coating to protect against chlorides prior to initial delivery</b>		
<b>HYDRAULICS</b>		
<b>Specification</b>	<b>YES</b>	<b>NO</b>
All fittings, valves, hoses and drive shaft shall be supplied and installed. All hoses shall be equipped with swivels on both ends.		
The hydraulic reservoir shall be of sufficient capacity to supply necessary oil supply. Reservoir must not interfere with the box installation. <b>Must be installed above or at frame level. Location shall not be lower than the level of the frame.</b>		
A sight gauge to allow easy checking of the hydraulic oil level in the reservoir shall be supplied.		
<b>ADDITIONAL SPECIFICATIONS</b>		
<p>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 five (5) years, and include 5 references attached to Schedule D.</p> <p>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. Installer of the truck equipment <b>must</b> be certified with Transport Canada and bear the <b>National Safety Mark</b>.</p> <p><b>Specify National Safety Mark Number:</b> _____.</p>		

**ONE WAY SNOW PLOW**

Viking model VCL120HSE9 steel one-way snow plow or Equivalent in compliance with the following specifications and approved by the Township of Perry.

SPECIFY MAKE: \_\_\_\_\_

MODEL: \_\_\_\_\_

<b>Specification:</b>	<b>Yes</b>	<b>No</b>
This one-way plow shall conform with the provisions of M.T.O. standards ES-414, except that the dimensions of this specification shall prevail when the two contradict.		
The plow shall operate effectively and without modification with the M.T.O. snow plow truck harness ES-401.		
The weight of the plow shall range from 1,850 to 2,150 lbs. and shall be constructed to prevent the accumulation of water in any area.		
The plow shall have a hood extending 18" past the vertical centre line, in normal operating positions.		
All 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 manufactured of 2 ½" x 2 ½" angle iron and welded securely to the ribs and moldboard with a continuous bead. All other welds must also be 100%.		
The thickness of the moldboard and hood shall be 10 U.S.S. ga. (.1345)		
The moldboard shall be pivoted to allow tilting in different positions, through a hydraulic cylinder and in-cab control.		
The moldboard brace rod shall be hydraulically adjustable for plow angles of 45-degrees, 50-degrees and 55-degrees.		
Male end of adjusting brace assembly to be solid steel.		
Both male and female ends shall have 5/8" mounting pins.		

<b>Specification:</b>	<b>Yes</b>	<b>No</b>
The female end shall be at the top to prevent the accumulation of water.		
Holes in drive bars for push frame shall be 1 ¼" diameter.		
Holes in drive bars for push frame shall be 1 ¼" diameter.		
The distance from the centre line of the holes to the end of the drive bar shall be 1 ½".		
The height of the moldboard at the top of curve shall be as follows:		
Front End: 26"		
Rear End: 54"		
The overall length shall be 13'10"		
The plow shall be fitted with two shoes as per M.T.O. ES-508. Ski Style Shoe		
There shall be eight vertical ribs, 3 ½" high by 3/8" thick. Minimum weld between the moldboard and rib shall be 100% weld each side.		
The bottom rail on the moldboard shall be 5" x 3" x ½" angle below with a 3" x 2" x 3/8" gussets shall be welded between the two legs of the bottom angle, between each bolt hole, except for the two sets of end holes and between two holes in the middle of the moldboard. The moldboard shall be continuously welded to the bottom rails.		
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. <b>Shall be Nordik Rubber Blades complete with holder plate WN-1100.</b>		
Moldboard shall have a total bearing area (pin dia. times web thickness times number of webs involved) or 4 ½" square inches minimum at the point where the drive links attach.		
Trip links safety mechanism shall be incorporated into the pushframe to return the moldboard to normal plowing position automatically. Trip springs must be secured with lock nuts.		

<b>Specification:</b>	<b>Yes</b>	<b>No</b>
Two separate lift chains shall be used, and these shall pick up on the drive frame at points approximately 48" apart.		
Two separate ½" lift chains shall be used, and these shall pick up on the drive frame at points approximately 24" apart.		
The height of the shoes shall be adjustable as shown on M.T.O. ES-521. Height adjustable one-way snow plow shoe holder.		
The shoes shall oscillate.		
The moldboard shall be formed in the shape of a smooth curve.		
The horizontal distance from the discharge end of the plow blade to the discharge end of the moldboard shall be 24" minimum.		
A sturdy eye ½" thickness shall be provided at the centre of gravity for handling of the moldboard.		
The design and quality shall meet M.T.O. requirements.		
The complete snow plow unit shall be black as per M.T.O. ES-301.		
Sector frame constructed of 4" x 4" x 3/8" square tube.		
36" high marker rods shall be installed on each side of the moldboard.		
Drive-frame shall be equipped with quick tach style swivel bar.		
A spare parts manual shall be supplied.		
A signed manufacturer's warranty shall be supplied.		
Drive-frame shall be complete with an adjustable parking stand.		

<b>PLOW HARNESS</b>		
Viking model VCL500T hydraulic tilt front plow harness or approved equivalent		
SPECIFY MAKE: _____		
MODEL: _____		
<b>Specifications:</b>	<b>Yes</b>	<b>No</b>
The front plow harness will tilt forward to allow the chassis hood to tilt forward over centre of its pivots and stay open without the need of any additional supports		
The harness tilt and return function will be performed by the operator from inside the chassis cab via proportional air over hydraulic control.		
One single locking shaft will be manually removed prior to performing the tilt function – dual load bearing pin designs to unlock front harness will not be accepted.		
The locking shaft shall be non-load bearing design with no weight actually on the shaft		
The single lock shaft will have an outside diameter of 1 ½” inches and overall length will be a minimum of 30 inches.		
A handle will be provided on one end of the lock shaft 4 inches square, 3/8-inch tube by ¾ inch the other end will be chamfered at 30° degrees.		
The lock shaft will when installed be located inside the full length connecting tube.		
The connecting tube and lock shaft assembly will together form the upper connection point of the cheek plate weldment to the front plate assembly.		
The connecting tube overall length will be 23 3/8” inch, inside 1.612” inches, outside diameter 1.90” inches.		
The hydraulic power tilt cylinder will be double acting 2 ½ inches with a 6-inch stroke chrome piston rod.		
Two lower pivot tubes will be provided, the outer pivot tube will be connected to the right and left side cheek plates, the inner pivot tube will be permanently attached to the front plate assembly.		

<b>Specifications:</b>	<b>Yes</b>	<b>No</b>
The inner pivot tube will rotate forward inside the outer pivot tube allowing the front plate assembly to travel forward into the tilted position and will rotate rearward to return the front assembly to the normal working position.		
The inner pivot tube will be 4 inches outside diameter 2 ¾ inches inside diameter, 52-inch-long seamless mechanical tubing.		
There will be two inner pivot tube gussets ½ inch plate, 18 13/16 inches long, 5" inches wide tapered to 2 ¼ inches.		
End plate located on inner tube ½" material 12" x 6" to provide lower mounting location for wing front post.		
The outer pivot tube will be 5 9/16" outside diameter, 4 1/16" inside diameter, 25 3/8-inch-long extra heavy pipe.		
There will be two outer pivot tube gussets ½ inch plate, 8-inch x 8 inch triangular.		
Outer pivot tube fitted with three 1/8-inch NPT Grease fittings for lubrication, one each located approximately 2 inches in from the end of the tube and one located in the centre.		
The front plate will be one solid piece of 3/8 inch steel plate with cut out of sufficient size to allow cooling of the chassis radiator.		
Overall height of the front plate will be 49 inches with a 5.25-inch 90° degree bend at the bottom.		
Right and left side plates, 15 ¾" maximum width by 49 ¼" high by 3/8" plate welded to the front plate.		
Upper cross channel 6" by 52" at 13 lbs./ft. welded to the right and left side plates		
End plate located on upper cross channel 1/2" material 12" x 6" to provide upper mounting location for wing front post		
1/2" steel plate pump and tilt cylinder mounting bracket welded to the cheek plate assembly, 24 1/4" wide by 18 1/2".		
Cheek plates will be specified to suit chassis frame rails, 1/2" steel plate and will extend back along the chassis frame rails as far as possible.		



<b>Specifications:</b>	<b>Yes</b>	<b>No</b>
Cheek plates flame cut from 44W steel plate.  Specify:  Minimum Yield: _____  Minimum Tensile: _____		
Fasteners attaching cheek plates to the chassis frame rails will be minimum grade 8 N.C. hex head bolts		
Two pairs of drive ears 100% welded to the front plate spaced at standard 30 1/2" centers		
Three sets of plow drive bar connection holes located in drive ears - height to lower drive connection 19" mounted with truck empty		
Quick-tack hitch pockets bolted to drive ears		
Hydraulic plow lift cylinder, double acting 4" diameter with 10" stroke, cylinder rod chrome plated		
Plow lift yoke 3/4" steel plate, braced with two 1/4" x 2" flat bar diagonal braces.		
Two mounting locations in lift yoke to provide location for mounting of plow hydraulic lift cylinder in winter operating position and stored summer position		
Mounting plates for plow lift cylinder, lift yoke and lift yoke braces all 1/2" steel plate 100% welded to front plate.		
Two LED plow lights with high and low beam and built in integral directional's with switch in cab shall be supplied.		
Two independent double acting valve sections will be incorporated in the valve stack, one section will provide hydraulic power for the plow lift function and the second valve section will provide hydraulic power for the hydraulic power tilt function.		
Two independent in cab feather joystick air controls will be pedestal mounted inside the chassis cab, one control will operate exclusively the plow lift function and the second control will operate exclusively the hydraulic power tilt function.		
Lift yoke brace mounting plates positioned to provide minimum 23.5" span.		

<b>WING HARNESS</b>		
Viking model VCL350SCL Cable Type Wing Harness or approved equivalent		
SPECIFY MAKE: _____		
MODEL: _____		
<b>FULL HYDRAULIC FRONT WING POST</b>		
<b><i>Specifications:</i></b>	<b>Yes</b>	<b>No</b>
48" front post shall be a cable type utilizing sheaves and cables – capable of high-winging or benching at a height of 60" from the ground to the bottom of the wing cutting edge		
The post shall be an 8" I beam @ 18.4 lbs/ft.		
The post shall be designed for heavy duty service and incorporate a hydraulic ram through sheaves and cables to operate the front of the wing		
The sheave pin shall be provided with a grease fitting and an oilite bushing.		
The main supporting member for the front post shall be 4" OD x 2 3/4" ID x 5/8" wall tube cross member running through both cheek plates, reinforced with a 1/2" steel plate between the cheek plate and front post.		
The auxiliary support shall be a 6" x 13 lb/ft channel running across the top of both cheek plates		
Aeon 5000 lb. rubber block helper spring kit shall be installed to the R.H. front chassis springs		
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.		
Front post will be a 4" O.D. x 2 3/4" I.D. x 5/8" wall tube cross member running through both cheek plates and front post.		
12" Grote #12020 convex mirror on backside of front post on a extended 10" angle iron bracket to aid driver in winging mode		
The slide and hinge assembly shall be equipped with a TORSION SPRING which will allow the wing to trip over obstacles.		

<b>Specifications:</b>	<b>Yes</b>	<b>No</b>
Two (2) 6" Grote front post spot lights on 18" extended adjustable bracket, separate in-cab switches		
The front post shall also be reinforced with a diagonal brace of heavy pipe running back to the chassis side rails		
<b>CABLE TYPE REAR WING POST</b>		
<b>Specifications:</b>	<b>Yes</b>	<b>No</b>
Rear wing post structure shall be a full height above frame rear wing tower		
Wing tower to have full height high shelving capability		
Tube style crossmember approximately 10" back of cab to assist in preventing diamond shaping of frame when winging.		
The rear structure shall attach directly to the right side of the chassis close behind the cab		
Wing tower shall be of 10" channel construction (no exception) with a 25-degree offset and its mountings shall be sufficient to sustain snow plowing operations under severe conditions.		
The supporting structure shall extend across both chassis side rails and along the right side to provide a distribution of the wing load under heavy duty operation		
A rigid load carrying enclosure shall be provided to support the wing braces and hydraulic cylinder for the rear of the wing		
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.		
The hydraulic valves shall be operated by featherable type air controls		
The wing operation shall be a cable type utilizing sheaves or cables. Bottom of wing tower shall be protected by a shoe and shall have a ground clearance of 14" minimum when truck empty.		
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. HARDENED CHROMED double acting cylinders		

<b>Specifications:</b>	<b>Yes</b>	<b>No</b>
Approved size of ram controlling wing brace slide shall be 3" dia. x 36" stroke approx. and shall be double acting.		
The control assembly shall contain (7) D.A. valves to operate the plow lift, hydraulic tilt/detach plow harness, front of wing, rear of wing, rear wing slide, and body side tilt cylinders. In addition, one (1) S.A. valve to operate the body hoist shall be included.		
The control panel assembly shall be of remote design with a pedestal provided to park the panel in any of the four (4) positions.		
Swing arm in-cab pedestal for plow/wing functions to be installed so as not to interfere with removal of engine cover		
The controls, from left to right, when viewed for the operator's seat, shall operate in the following manner: <ol style="list-style-type: none"> <li>1. Plow Lift</li> <li>2. Front of Wing</li> <li>3. Rear of Wing</li> <li>4. Rear Wing Slide</li> </ol>		
In addition, a floor console shall be provided which will include the following controls: <ol style="list-style-type: none"> <li>1) Body Hoist</li> <li>2) Harness Tilt</li> </ol>		
When fully raised, the rear of the wing shall be close to the RH west coast side mirror on the chassis		
35 U.S. gallon integral rear wing assembly oil reservoir, <b><u>installed on top of the frame rails back of cab</u></b> , shall be supplied complete with oil filter, oil level sight / temperature gauge, breather type filler cap, drain plug and ball valve shut-offs		
6" rear wing light w/in-cab switch		
Manufacturer's literature shall be included		
Manufacturer's warranty minimum 1-year parts and labour		
Harness shall be prepped and painted Medium Gloss BLACK		

<b>STEEL SIDE WING MOLDBOARD</b>		
Viking model VCL144WHD Steel Side Wing Moldboard or approved equivalent		
SPECIFY MAKE: _____		
MODEL: _____		
<b>Specifications:</b>	<b>Yes</b>	<b>No</b>
12' WING MOLDBOARD Overall length 12 feet		
Inside intake height 29" minimum		
Outside discharge height 39" minimum		
Moldboard thickness 10 gauge minimum		
Two drive ribs for connecting the wing brace shall be provided.		
Two drive ribs shall be located approximately 10' 2" and 10' 8" from the nose end of the wing.		
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.		
Lower wing angle shall be 6" x 4" x 3/4".		
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 of the wing.		
Two adjustable wing braces shall be supplied.		
The upper brace shall be of a shock 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.		

<b>Specifications:</b>	<b>Yes</b>	<b>No</b>
The lower brace shall incorporate a 5/8" x 6" compression spring to absorb any shock the wing encounters.		
Upper brace – extended 90" C.C.		
Collapsed 60" C.C.		
Extended distances shall be measured with spring fully retracted.		
Lower brace – Extended 88" C.C.		
Collapsed 58" C.C.		
One spare pin for adjusting the wing braces shall be supplied with each brace.		
The top edge of the wing shall be boxed in and welded 100% to the ribs and the moldboard so as to avoid any pockets.		
Adjustable needle valve in hydraulics back of cab to allow operator to be able to slow / speed mode functions of wing.		
A high wear wing blade shall be supplied.		
36" ORANGE fluorescent wing marker attached to rear of wing		
Conspicuity reflective on wing arm and on rear edge of wing		
All steel will be shotblasted, epoxy ZINC primed and finished in Medium Gloss BLACK finish		

HYDRAULIC SYSTEM		
<i>Specifications:</i>	<b>Yes</b>	<b>No</b>
The hydraulic pump supplied shall be a Dowty Model 2PL158/220 front mount crankshaft driven Tandem Dry Mode pump with in cab air shift.		
The first stage shall produce 13 US G.P.M. at 1,000 R.P.M. and 23 US G.P.M. at 1,800 R.P.M.		
The second stage shall produce 18 US G.P.M. at 1,000 R.P.M. and 32 US G.P.M. at 1,800 R.P.M		
One pump section shall be dedicated to the operation of the plow, wing and hoist only.		
The second pump section shall strictly operate the conveyor and spinner assembly to ensure uninterrupted flow of material.		
Pump mounting plate and splined drive shaft shall be supplied.		
The pump shall be driven from the crankshaft of the truck engine.		
The pump shall have a manufacturer's R.P.M. rating equivalent or higher than that of the truck engine at governed speed.		
Hydraulic hoses to connect pump shall be supplied. Their size shall be adequate for quick operation of all hydraulic operations and shall be <b>2 ply braided steel</b> SAE100RS, with swivels on both ends.		
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.		
The hydraulic system must be set up so all other hydraulic functions do not "rob" the sander equipment.		
A parts manual shall be supplied with each unit.		
Hydraulic control valves will be stackable and sectional type HCD-6 with HCD6-L20 air shift – no exceptions.		
The valves shall be open center type to operate with a hydraulic gear pump.		

<b>Specifications:</b>	<b>Yes</b>	<b>No</b>
To prevent corrosion the air shifters will have a bronze sleeve.		
<p>The control valve will include the following 7 sections:</p> <ul style="list-style-type: none"> <li>1 single acting for body hoist</li> <li>1 double acting for plow lift</li> <li>1 double acting for plow reverse</li> <li>1 double acting section for front harness hydraulic tilt forward</li> <li>1 double acting section for front of wing lift</li> <li>1 double acting section for rear of wing lift</li> <li>1 double acting section for rear wing slide lift</li> </ul>		
The hydraulic control valves will be operated by proportional featherable in cab air controls – model RMH866000		
The control panel assembly shall be of a remote design pedestal mounted and adjustable.		
An oil reservoir of minimum 35-gallon capacity shall be supplied, complete with oil filter oil level sight gauge, breather type filler cap, drain plug and oil shut off valve.		
The oil reservoir will be installed on top of the chassis frame rails directly behind the cab.		
The complete valve stack assembly will be installed well above the chassis frame rails on the left side back of cab in an easily accessible location, protected from the road debris. The junction boxes for the lights must also be installed at this location.		



<b>ADDITIONAL ITEMS TO BE INCLUDED PRICED SEPARATELY</b>		
<b><i>Specifications:</i></b>	<b><i>Yes</i></b>	<b><i>No</i></b>
1 additional set of 10" Sideboards		
1 additional cross conveyor belt		
1 additional main chain		
1 additional set of swing away glad hands		
1 additional spinner disk		
6 additional rubber plow insert pieces for Nordik blade		

**BID FORM**

**EQUIPMENT DESCRIPTION:** New Tandem Plow Truck

**DELIVERY POINT:** Township of Perry  
86 Old Government Road  
Emsdale ON.

**OWNER:** Township of Perry

**BIDDER**

\_\_\_\_\_  
Bidder's name

\_\_\_\_\_  
Bidder's address

\_\_\_\_\_  
City Province Postal Code

\_\_\_\_\_  
Telephone Number Fax Number

\_\_\_\_\_  
Email Address

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Position of Signer

**BIDS RECEIVED BY**

The Township of Perry  
1695 Emsdale Road  
PO BOX 70  
Emsdale, Ontario  
P0A 1J0

TO: The Township of Perry

1. BID

I/WE, the undersigned, having carefully examined the Tender Documents, hereby offer to supply the equipment described in the Tender Documents to the Township of Perry in accordance with the said documents at the price set forth in the attached Schedule of Prices and Other Information. We also understand and accept the said Tender Documents and hereby state that the prices set forth in the attached Schedule of Prices and Other Information is full and satisfactory compensation.

We acknowledge receipt of each of the Tender Documents and acknowledge that each document forms an integral part of this bid.

Notification of Acceptance of this bid may be given by fax and delivery of the Tender Form made by prepaid post, addressed to myself at the address contained in this Bid.

This bid shall remain valid and irrevocable until 4:00 p.m., Local time on June 18, 2018.

In submitting this bid we hereby certify we have made all such inquiries as may be necessary or useful in understanding the requirements and submitting a valid bid. We shall not claim and agree that we shall not be permitted to claim, that the contract requirements have, or are in any way, different or changed.

We understand that the tender terminates in the event that we fail to supply the equipment and/or meet warranty obligations to the satisfaction of the Township of Perry, and that under such circumstances the Township of Perry reserves the right to declare us ineligible to participate in any procurement projects by the Township of Perry for a 24-month period.

We also declare that we did not and do not rely on information provided by the Township of Perry, or its employees, other than written information specifically given in response to an inquiry made by us.

We hereby certify that, at the time of submitting this bid, we are in full compliance with all laws of Canada and the Province of Ontario.

If this bid is accepted, we undertake and agree to supply the equipment in full compliance with the Tender Documents.

We acknowledge and agree that the term "Tender Documents" in this bid means the following documents in the bid package:

Information and Instructions to Bidders  
Schedule A - Tender Specifications  
Bid Form  
Schedule B – Schedule of Prices and Other Specifications  
Schedule C – Equipment Description  
Schedule D – Warranty Details

DATED at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_, 2018

\_\_\_\_\_  
Signature of Bidder

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
Postal Code

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Fax Number

\_\_\_\_\_  
Email Address

**SCHEDULE “B” – SCHEDULE OF PRICES AND OTHER INFORMATION**

**SECTION 1 – SCHEDULE OF PRICES**

The Supplier hereby states that the following unit prices shall constitute all costs associated with the supply of equipment and the provision of services specified under Tender No. 2018-01

<b>1) Unit Price (Excluding Hst) F.O.B. To Township of Perry, 86 Old Government Road, For the Supply of New Tandem Plow Truck – Cab, Chassis, Combo Dump/Sander with One Way Plow And Wing As Specified.</b>	\$
<b>HST</b>	\$
<b>Total Price Including HST</b>	\$

<b>Additional Items priced separately excluding HST</b>	
1 additional set of 10” Sideboards	\$
1 additional cross conveyor belt	\$
1 additional main chain	\$
1 additional set of swing away glad hands	\$
1 additional spinner disk	\$
6 additional rubber plow insert pieces for Nordik blade	\$
<b>Subtotal for additional Items</b>	\$
<b>HST</b>	\$
<b>Total for Additional Items</b>	\$

**SECTION 2 – OTHER INFORMATION**

- (1) Nearest location for factory service and support on cab and chassis (specify)

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(2) Delivery date (specify) \_\_\_\_\_

**SECTION 3 – HST REGISTRATION**

I certify that this bidder's HST Registration Number is \_\_\_\_\_

**SECTION 4 - ADDENDA ACKNOWLEDGEMENT**

As an integral part of this bid, the Bidder shall complete below a statement giving the number and date of all addenda used in preparing this bid. If no addenda were issued the words "Not Applicable" shall be entered below. Failure to complete this statement and include all addenda shall result in the bid being declared informal.

Addendum Number

Addendum Date

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

It is understood and agreed that the above noted prices does not include HST but includes any and all other fees, charges, taxes or other amounts to supply and/or warranty the equipment in accordance with the Tender Documents.

DATE: \_\_\_\_\_

\_\_\_\_\_  
Signature of Bidder

## **SCHEDULE "C" – EQUIPMENT DESCRIPTION**

Describe in detail the equipment the bidder proposes to supply if awarded the contract. Include in the detail a copy of a promotional breakdown or pamphlet with a picture of the equipment and any information that may assist the Township of Perry in determining whether or not the proposed equipment meets the specifications.

## **SCHEDULE “D”**

Bidders are required to attach to this page, References (5) as per specifications and copies of any and all warranties, including extended power train warranty that may apply to the proposed equipment if the bidder is the successful bidder. Details of any available extended warranties shall be attached here as well.