



THE CORPORATION OF TAY VALLEY TOWNSHIP

TENDER FOR

**TENDER FOR THE SUPPLY AND DELIVERY OF
ONE (1) CAB AND CHASSIS WITH TANDEM SNOW PLOW AND HARNESS
FULLY DETACHABLE, TANDEM 30 TON
IBS SYSTEM AND IBS TANDEM V HOPPER
DUMP SPREADER BODY**

CONTRACT #2015-PW-004

TENDERS RECEIVED BY:

The Corporation of Tay Valley Township
217 Harper Road,
Perth, Ontario K7H 3C6

Attention: Amanda Mabo, Clerk

Telephone: 613-267-5353 ext. 130
Toll Free: 1-800-810-0161
Fax: 613-264-8516
E-mail: clerk@tayvalleytwp.ca
Website: www.tayvalleytwp.ca

**THE CORPORATION OF TAY VALLEY TOWNSHIP
TENDER FOR CAB AND CHASSIS, TANDEM SNOW PLOW AND
DUMP SPREADER BODY
CONTRACT #2015-PW-004**

PART "A" – INFORMATION TO BIDDERS

1. Tender Form

Sealed Tenders, clearly marked as to the contents, on the forms supplied by the Township, will be received, by the undersigned or his/her designated representative, at the Municipal Office, 217 Harper Road, Perth, Ontario, until **1:00 p.m.**, local time, as determined by the clock located in the reception area of the Municipal Office, on **Wednesday, September 23rd, 2015 for supply and delivery of one cab and chassis with tandem snow plow and harness fully detachable, tandem 30 ton IBS system and IBS tandem V hopper dump spreader body.**

Tenders received after closing time will not be considered.

The Corporation of Tay Valley Township
217 Harper Road,
Perth, Ontario K7H 3C6

Attention: Amanda Mabo, Clerk

Telephone: 613-267-5353 ext. 130
Toll Free: 1-800-810-0161
Fax: 613-264-8516
E-mail: clerk@tayvalleytwp.ca

One copy of the **completed Form of Tender**, Part "D", on the forms provided, shall be submitted. All information shall be shown in the tender in the spaces provided, including the signature of the Bidder with his/her address and telephone number.

Tender Forms must be properly signed and witnessed, or signed, witnessed and sealed if the bidder is a Corporation. Tenders must be submitted, using the Tender Label – Form 5 (to be affixed on your Tender Envelope).

The Tender must be legible, written in ink or typewritten, where stipulated, with the unit price for every item and other entries clearly shown. Tenders which are incomplete, conditional or obscure or which contain erasures or alterations not properly initialed, or irregularities of any kind, may be rejected. Submissions must not be restricted by a statement added to The Corporation of Tay Valley's Form or by a covering letter, or by alterations to the form supplied, unless otherwise provided in Part "A" - Information to Bidders.

Tenders received by fax or email will be disqualified.

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2. Harmonized Sales Tax

Harmonized Sales Tax (H.S.T.), or any other applicable taxes, will be paid **in addition** to the tendered price.

3. Insurance

The General Liability policy shall be underwritten by an insurer licensed to conduct business in the Province of Ontario and include but not be limited to the following:

- a) Third party bodily injury, personal injury and property damage, to an inclusive limit of not less than \$2,000,000 per occurrence.
- b) The Municipality shall be added as an additional insured.
- c) The policy shall contain a provision for cross liability and a severability of interest clause.
- d) The policy shall contain a provision for contractual liability – oral and written
- e) The policy shall provide the Municipality with 30 days' notice of cancellation or nonrenewal.
- f) Non-owned Automobile Coverage for a limit of not less than \$2,000,000 including contractual non-owned coverage.
- g) Contingent Employer's Liability.
- h) Broad Form Property Damage.

The Company acknowledges that he/she is an independent Contractor and shall, indemnify, protect and save harmless The Corporation of Tay Valley Township, its agents and employees from any and all damages, liabilities and claims of whatsoever nature arising out of the furnishing by the Company, its agents or employees of the materials and/or performing of the services covered by this Contract.

The Company remains responsible for maintaining the required insurance even if the certificates are never exchanged and/or requested.

The Contractor shall obtain and keep in force for the duration of this contract automobile under a standard Automobile Policy with limits no less than \$2,000,000 in respect of each owned or leased licensed vehicle.

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4. Clarification of Documents

Any clarification of The Corporation of Tay Valley Township's documents required by the Bidder, prior to submission, shall be requested through the Township. Any such clarifications so given shall not, in any way, alter the Township's documents and the Company and The Corporation of Tay Valley Township agree that in no case shall oral arrangements be considered. No officer, agent or employee of the Township is authorized to alter, orally, any portion of these documents. During the period prior to submissions, alterations will be issued to Bidders as written Addenda. In the submission, the Bidder shall list all Addenda that were considered when the submission was prepared.

All questions shall be directed, in writing (by email) to the Clerk.

All questions/discrepancies identified must be sent to the Township at least three (3) business days prior to the submission due date.

Copies of all questions and answers and any addenda will be posted on the website no later than two (2) business days prior to the submission due date.

5. Contract Documents and Order of Precedence

The contract documents shall consist of all the pages of the Tender documents, issued by the Township, and the Company's submission. Do not remove any pages from the Township's Form.

These documents, and portions thereof, take precedence in the order in which they are named above, notwithstanding the chronological order in which they are issued or executed.

The intent of the Contract is that the Company shall supply equipment and materials or services complete and suitable for the Township's intended use.

None of the conditions contained in the Bidders standard or general conditions of sale shall be of any effect unless explicitly agreed to by the Township and set forth or specifically referred to therein.

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6. Withdrawal

A Submission may be withdrawn at any time prior to the closing date and time at the Bidder's discretion. Withdrawal notification must be in written form, signed and must be submitted to the Clerk. No fax, telephone calls or emails will be accepted. After the official closing date and time, all Submissions received shall be irrevocable.

7. Public Opening

All submissions will be opened at the Municipal Office, 217 Harper Road, Perth, Ontario, on the same day and time as the closing date. All submissions will be deemed public documents and subject to public information requests.

8. Tender Results

The names of the Bidders and total bid prices will only be made available at the Tender Opening. After the Tender Opening, requests may be submitted to the Township for the results and only the names of the Bidders and total bid prices, as read out at the Tender Opening, will be given in the reply. Bid results will be posted on the Township's Website at www.tayvalleytwp.ca within 48 hours of the Tender Opening.

9. Bid Acceptance

It shall be the policy of The Corporation Tay Valley Township (“Township”) that in any procurement of goods and services or construction invitations to tender by the Township, the Township reserves the right to reject an offer to supply goods and/or services or Tenders presented in response to the Township's procurement processes where the Township determines, in its sole and unfettered discretion, that the entity making the offer has performed poorly on any Township contract during the previous five-year period. Township Council may remove a Company's name from consideration for a contract under this Policy, for a period of up to five (5) years, on the basis of documented poor performance or non-performance on a Township Contract.

Unless otherwise specified in these Tender documents, that this Tender constitutes an irrevocable offer to provide the goods and/or services described herein **for a period of ninety (90) calendar days** from the closing date of the receipt of Tenders. **The Township anticipates awarding the Contract no later than October 14th, 2015.**

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The Bidder 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.

The Township reserves the right to award by item, or part thereof, groups of items, or parts thereof or all items of the Submission, and to award Contracts to one or more Bidders submitting identical prices, to accept or reject any Submission in whole or in part; to waive irregularities or 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.

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

The placing in the mail or delivery of a notice of award to the Company address, given in the Submission, shall constitute notice of acceptance of the Contract.

10. Assignment

The Company shall not assign the Contract, or any portion thereof, without the prior consent of the Township.

If the Township agrees to the assignment of the Contract, all Assignment Agreements will be prepared, at the sole cost of the Company, and under no circumstances will the Township be responsible for these costs.

11. Definitions

Wherever the words “Township” or “Corporation” appears in this Contract, it may be interpreted as meaning “The Corporation of Tay Valley Township”.

Wherever the words “Contractor”, “Constructor” or “Company” appears in this Contract, it may be interpreted as meaning “the successful Contractor”.

Wherever the words “Manager” or “Contract Administrator” or “Representative” appears in this Contract, it shall be interpreted as meaning the “The Public Works Manager” or such other officers as authorized by The Corporation of Tay Valley Township to act in any particular capacity.

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12. 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 and interpreted in accordance with the laws of the Province of Ontario.

13. Health and Safety

The Company assumes full responsibility for conforming with all legislation regarding the safety of his/her employees and the public on this Contract and all notices required to comply with the legislation. The Company will be deemed to be the "Constructor" for the duration of this Contract.

Accordingly, all Companies shall:

- (a) Demonstrate establishment and maintenance of a health and safety program with objectives and standards consistent with applicable legislation.
- (b) Provide a copy of your Company's Health and Safety Policy, dated not later than **2015**, within one week of acceptance of Tender.
- (c) Provide a copy of the applicable WSIB Certificate of Clearance or equivalent (if the Bidder is from outside Ontario), upon execution of the Contract agreement.

Upon request, at any time, from the awarding to the completion of the Contract, submit proof of fulfillment of the above noted.

14. Accessibility

The Vendor shall provide a declaration that they are compliant with the Accessibility for Ontarians with Disabilities Act and its Regulations.

15. Default by Company

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 creditor, then, in any such case, the Township may, without notice, terminate the Contract.

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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 or relevant authorities relating to the work or fails to prosecute the work with skill and diligence or assigns or sublets the Contract 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 (10) days from the date of written notice to the Company, terminate the Contract.

Any termination of the Contract by the Township, as aforesaid, shall be without prejudice to any other rights or remedies the Township may have.

If the Township terminates the Contract, it is entitled to:

- Take possession of all of the work in progress and finish the work by whatever means the Township may deem appropriate under the circumstances.
- Withhold any further payments to the Company until its liability to the Township can be ascertained.
- 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).

16. 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 portions of the work.

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17. Tender Deposit

Each Tender shall be accompanied by a certified cheque in the amount of ten percent (10%) of the bid price payable to the Township, “Tay Valley Township”. This shall be returned within ten (10) days of Tender Opening to all bidders except for the successful and second placed bidder. In the case of the second placed bidder this shall be returned upon start of contract by successful bidder. In the case of the successful Tender, this shall be returned after successful completion of the Contract. If a deposit percentage results in a fraction, it must be rounded up to the nearest dollar. If applicable, in subsequent years, sixty (60) days prior to the start of the work, the Township shall require a certified cheque, in the amount of 10%, for each subsequent year of the Contract. Please complete the attached Tender Deposit Cheque – Method of Return – Form 4.

18. Responsibility

The Township shall not be responsible for any liabilities, costs, expenses, loss or damage incurred, sustained or suffered by any Bidder prior to, subsequent to, or by reason of the acceptance or the non-acceptance of a Tender save as provided in the Contract. The Township reserves the right to reject any or all Tender and to waive formalities as the interest of the Township may require without stating reasons, therefore, and the lowest or any Tender will not necessarily be accepted.

19. Lowest Bid

Lowest, or any Tender, not necessarily accepted.

20. Liquidated Damages

Liquidated damages shall be paid by the contractor if the delivery called for in the Tender is not completed within the time set out in the Tender, or by an amended date approved by the Municipality. The Contractor agrees to pay the Municipality liquidated damages at a sum of 2% of the total tender price per calendar day, for each day’s delay in delivery.

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21. Payments

- (a) The Company shall invoice the Township, “Tay Valley Township” upon delivery. The Township shall pay ninety percent (90%) of said invoice within thirty (30) days.
- (b) Payment by the Township of the ten (10%) percent holdback, shall be made forty-five (45) days from the date of delivery.

Part or whole of this Contract is contingent upon the budget approval of the Township.

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PART “B” – GENERAL CONDITIONS

1. The unit shall be delivered **on or before December 31st, 2015, or on a date agreed to by both parties**, to the Township yard, 217 Harper Road, Perth, Ontario and if the unit is not received on or before the date indicated by the bidder on the tender form, the Township reserves the right to initiate “Liquidated Damages – Clause 15 - Part “A” – Information to Bidders”.
2. The following specifications are prepared with the intention of providing a basis for securing competitive bids. Notwithstanding certain detail, equipment of similar design and construction will receive consideration if, in the opinion of the Tay Valley Township, it is considered to be suitable for the intended application and generally conforms to performance requirements. All bids on equipment not fully meeting the specifications shall be accompanied by a statement fully outlining any departures from the specifications and fully describing the equipment offered. Bidders must also complete the column indicated “Specify” specification statement.

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PART “C” – SPECIAL CONDITIONS - ITEMS

1. This specification covers a **tandem truck** used in the maintenance of highways and municipal roads.
2. This specification covers only the major details of a unit. It is the supplier's responsibility to deliver a fully equipped unit with compatible components to provide dependable efficient service.
3. No wiring is to be cut or spliced without written approval from the OEM or the Corporation of Tay Valley Township.
4. No frame or structure is to be cut, welded or drilled without written approval from the OEM or the Corporation of Tay Valley Township.
5. All wiring to be spliced must be soldered and covered with shrink tube.
6. All aftermarket installation, service and operators' manuals as well as warranty certificates must be forwarded to the Corporation of Tay Valley Township.
7. A copy of the owners, parts, service, operators (2 copies), shop manuals (including complete wiring diagrams) and CDs will be forwarded to the Corporation of Tay Valley Township.
8. All warranty certificates and the vehicle line ticket must be forwarded to the Corporation of Tay Valley Township.
9. A complete list of all oils and filters must be forwarded to the Corporation of Tay Valley Township.
10. Dealer will license the vehicle until December 31st, 2015. Do not include in the tender price. Invoice separately.
11. Unit will be delivered as a complete working unit to 217 Harper Road, Perth Ontario K7H 3C6.
12. Dealer will have the unit MTO certified.
13. Warranty and in service date will start the day the unit is delivered to 217 Harper Road, Perth Ontario K7H 3C6.

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PART "D" – FORM OF TENDER

1. I _____, of _____,
DECLARE that no person, firm or Corporation, other than the one whose signature or the signature of whose proper officers and seal is or are attached below, has any interest in this Tender or in the Contract proposed to be taken.
2. **I FURTHER DECLARE** that this Tender is made without any connections, knowledge, comparison of figures or arrangement with any other company, firm or person making a Tender for the same work and is in all respects fair and without collusion or fraud.
3. **I FURTHER DECLARE** that no member of the Township Council, or any Officer of the Township is or will become interested, directly or indirectly, as a contracting party or otherwise, in the performance of the Contract, or in the supplies, work or business to which it relates or any portion of the profits thereof, or any such supplies to be used therein or in any of the monies to be derived therefrom.
4. **I FURTHER DECLARE** that several matters stated in the said Tenders are in all respects true.
5. **I FURTHER DECLARE** that Addendum/Addenda No. _____, inclusive, has/have been received, and that all changes specified in the Addendum/Addenda have been included in the prices submitted. I do hereby tender and offer to enter into a Contract, to do all of the work and to furnish all necessary labour, machinery, tools, apparatus and other means of construction, and to provide furnish, deliver, place and erect all materials mentioned and described or implied therein, to complete the work, herein described, in strict accordance with the plans, specifications and special provisions and to accept in full payment therefore, the sums calculated in accordance with the actual measured quantities, except where noted, at the unit prices set forth in the tender therein as follows:

Witness

Signature

Date

Name of Company

E-mail Address

Address

Name of Signing Authority for
Contract (Please print)

Telephone

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PART "D" – FORM OF TENDER

**D-1 SPECIFICATIONS AND CONFIRMATION FOR ONE (1) CAB AND CHASSIS WITH
TANDEM SNOW PLOW AND HARNESS FULLY DETACHABLE AND TANDEM 30
TON IBS SYSTEM**

State Make: _____

State Model: _____

Fuel Economy Highway: _____

**The following Specifications are designed to generally describe the features required.
The Supplier is advised that if the features are not standard equipment or normal
options, please indicate exceptions in the space provided.**

Specification:

Confirmation:

1. GENERAL		
This specification covers a tandem truck, cab and chassis, 2015 Model or newer.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Vehicles must be supplied with suitable components to comply with the following specification in all aspects.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
2. DETAILED SPECIFICATION		
DD13 12.8L 450 HP @ 1800 RPM, 2080 GOV RPM, 1650 LB/FT @ 1100 RPM.	SPECIFY VEHICLE: _____ MAKE: _____ ENGINE: _____	
3. VEHICLE WEIGHT		
G.V.W. 66,000 lbs. minimum the allowable G.V.W. as supplied shall be shown on a metal or mylar tag.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Vehicle weight (wet) shall be 14,000 lbs. minimum.	SPECIFY: _____	

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4. AXLES		
Front axle shall be a 40 inch minimum set back, Rockwell, minimum 22,000 lbs capacity. Dana Spicer I-200 W or equivalent.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____ MODEL: _____ MAKE: _____ CAPACITY: _____ _____	
Distance from front bumper to centerline of front axle.	SPECIFY: _____ INCHES	
MT-44-14 XP-R tandem rear axle.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____ MAKE: _____ MODEL: _____ CAPACITY: _____ _____	
Rear axle shall be Rockwell dual drive with interaxle differential and driver controlled interaxle differential lock out, and four wheel lock-up, matched to engine and transmission to give adequate road power at 80 km/hr at approximately 1,200 rpm.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Axle ratio shall be 5.29 to 1.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____ _____	
The spread on the tandem axles shall be 60 inches.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____ _____	

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5. BRAKES		
Service brakes – full air brakes with Bendix ABS System.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Air compressor – 13.6 cfm capacity minimum shall be supplied with dry type air cleaner on intake.	SPECIFY: _____	
Front brake size 16 ½" x 6" “S” Cam Type shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Rear brake size 16 ½" x 7" “S” Cam Type shall be supplied minimum.	SPECIFY SIZE: _____	
	SPECIFY TYPE: _____	
Low air pressure indicator to be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Cable drain valves shall be supplied. Air tanks will have manual moisture drains with remote pull chains, easy to reach.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Heated air dryer to automatically purge accumulated air moisture during the compressor duty cycle.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Long life brake chambers with minimum 6 years warranty.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Protection boots for air chamber push rods shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Dust shields front and rear.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Automatic slack adjustors with stroke indicators with feasible clevis pins installed.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
6. FRAME		
Frame shall be of a standard manufacturer’s design with reinforcement offered as “Standard Option”.		
State frame Specifications:		
FRAME	REINFORCING	MOMENT
NOTE: TRUCKS WITH TRUNION TYPE MOTOR MOUNTING MUST HAVE FRAME REINFORCEMENT. MOUNTING OF SNOW PLOW CHEEK PLATES SHALL BE POSSIBLE.		
Additional Spec. on Frame: Provision shall be supplied to prevent diamond shaping of the frame. The frame shall be bridged by a cross member installed within 10 inches of the rear of the cab in order to transfer snow plow wing push to each frame rail. This cross member shall be gusseted fore and aft.	YES <input type="checkbox"/>	NO <input type="checkbox"/>

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7. SUSPENSION		
Cab to axle distance shall be approximately 138 inches.	SPECIFY: _____	
Wheelbase length, inches approximately.	SPECIFY: _____	
Front: 23,000 # Flat leaf front suspension.	SPECIFY: _____ CAPACITY: _____	
Front: Shock absorbers.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Rear: TUFTRAC 46,000# 2-stage rear spring suspension.	SPECIFY: _____ CAPACITY: _____	
Transverse torque arms shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Mud flaps shall be supplied with a clearance of not more than 12 inches above the ground.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
8. WHEELS AND TIRES		
Dual rear wheels.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Steer axle-445-65R22-5L 20 ply (front) Michelin XZY.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Eight rear Michelin steel belted radial tubeless tires – 11:00 R x 22.5 – 16 ply rating.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Tread Design: Front – Standard Highway Tread.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Tread Design: Rear – New traction tread – XDS or equivalent.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Wheel disc guards on front steering axle between hub and rim.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Wheel disc guards on rear tandem axles between hub and rim and between rims.	YES <input type="checkbox"/>	NO <input type="checkbox"/>

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9. ENGINE		
DD13 12.8L 450 HP @ 1800 RPM, 2080 GOV RPM, 1650 LB/FT @ 1100 RPM.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY H.P.: _____	
	SPECIFY R.P.M.: _____	
Net torque shall be 1450 lbs. ft. min. at rated R.P. M.	SPECIFY TORQUE: _____	
	SPECIFY R.P.M.: _____	
Minimum displacement shall be 13 litres 4 stroke.	SPECIFY: _____	
10. TRANSMISSION		
WTEC Calibration – 6 speeds with auto neutral RDS (Package 113).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Vehicle interface blunt cut wiring with fuse panel wire mounted between driver and passenger seats.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Chelsea 277 Series PTO.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
PTO Mounting, LH side of main transmission.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Push button electronic shift control, dash mounted.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Transmission diagnostics – enabled 213.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Water to oil transmission cooler, frame mounted.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Transmission oil check and fill with electronic oil level check.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Synthetic transmission fluid (TES-295 Compliant)	YES <input type="checkbox"/>	NO <input type="checkbox"/>
11. CLUTCH		
Synthetic transmission fluid (TES-295 Compliant)	YES <input type="checkbox"/>	NO <input type="checkbox"/>
12. DRIVE SHAFT		
Model SPL 250 XL or equivalent.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
13. HYDRAULIC PUMP		
Direct mounted hydraulic Tandem pump in compliance with the following specification Model Dan Foss 75 CC load sensing installed on an Allison Transmission Model RDS 4500 P with clutch pack (hot shift) P.T.O. Approved pump: Dan Foss	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The pump shall be PISTON type and shall be of sufficient capacity to operate continuously one front mounted plow, one leveling wing, dump V hopper sander.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Spare parts manual shall be supplied with the unit.	YES <input type="checkbox"/>	NO <input type="checkbox"/>

_____Initials

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Signed Manufacturer's warranty shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
P.T.O. and pump with proportional control joystick installed with floor console.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Hydraulic tank (26 US gallons) with sight level gauge, good for snow plow and sander.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Low level hydraulic buzzer and light in the floor console.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
14. ENGINE EQUIPMENT		
Alternator shall be single-belt drive 130 amp. Capacity. Low cut in – 1/3 output at idle.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY MAKE: _____	
	SPECIFY MODEL: _____	
	CAPACITY NORMAL: _____	
	CAPACITY AT IDLE: _____	
Three – maintenance free batteries shall be supplied – 1,800 CCA Minimum – SAE rated.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Passenger seat battery box vented to outside of cab.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Battery box mounted under passenger seat.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Master shut off switch mounted at battery box.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
An adjustable electronic throttle shall be installed.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Exhaust – exhaust pipe and muffler with guard must be horizontal behind the cab with tailpipe end on stack.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Manual exhaust regeneration inhibitor must be installed.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
A heavy duty dry type air cleaner shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY TYPE: _____	
An air restriction indicator shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
A heavy duty fuel oil water separator shall be supplied, Con-Met MI-650.	YES <input type="checkbox"/>	NO <input type="checkbox"/>

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An automatic, Horton, on/off temperature controlled fan clutch shall be supplied with manual override switch.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Air Cleaner Dual element, with Integral Snow Valve and In-Cab control.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Engine hood shall be butterfly and front.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
15. CAB - Conventional cab with the following equipment shall be supplied:		
Auxiliary control cab access hole in cab on floor.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Separate driver and single passenger seats shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The driver's seat shall be a National 2000 195 Air High Back (or latest model) with Head-rest, Air lumbar cushion and back bolster and armrests on both sides of seat.	SPECIFY: _____	
The passenger seat shall be the same as the driver's seat.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The driver's seat shall be adjustable fore and aft.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Tilt Steering.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Air ride cab.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Windshield to be heated.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Tinted Safety glass to be supplied, doors and rear window.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Electric windshield wipers shall be supplied and shall be intermittent.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Fender extensions on hood.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Heater – fresh air type, with dual forced draft defroster – heavy duty blower.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Air conditioning.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Tachometer.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Transmission temperature gauge.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
An hour meter anti-vibration mount.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Seat belts – two, three point attachment.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Floor mats – rubber.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
CB Radio ready.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
2-way radio ready.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Dome light in Cab – light must radiate from cab roof.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Mirrors – two outside, minimum 6” x 16” Westcoast type mirrors with Convex c/w lights and heaters. Two fender mounted Convex mirrors on tri-pod stainless steel.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY SIZE: _____	
Interior grab bars on each side of the cab to assist entry and exist shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Exterior grab bar on driver's side door.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Dual-air horn with snow shield shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Power side windows on both doors.	YES <input type="checkbox"/>	NO <input type="checkbox"/>

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AM-FM Radio.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
16. FUEL TANKS		
A 100 Imperial Gallon minimum step alloy tank shall be supplied mounted on the left side.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY SIZE (Imp. Gals): _____	
17. LIGHTS		
Factory switches on dash for aux. lighting for box and plow (min. 12 switches). Lighting wiring to be connected and programmed by Truck Supplier.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The following lights shall be supplied and any connections to be made into OEM wiring to be made with a junction box:		
Two fenders mounted amber front directional LED signal lights shall be supplied – 4 inches minimum.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Body builders wiring at end of frame.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
OEM auxiliary harness for front plow head lights.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
All lights on truck to be LED – unless otherwise specified. Lights over front plow will be halogen.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
All lights must have circuit breaker type protection.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Two rear red directional LED signal lights shall be supplied such as Gorote Hi Count LED Box Lamp or equivalent.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
LED Stop Lights mounted at frame level.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
LED five cab identification lights.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Four-way flashers.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
LED Back-up lights.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
18. PAINT		
Paint shall be manufacturer's standard base coat clear coat white. Black epoxy undercarriage.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
19. MISCELLANEOUS		
-45 degrees F. long life anti-freeze shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Master shut off switch on batteries ground must be mounted in Cab.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Three (3) sets of keys cut and ready to use.	YES <input type="checkbox"/>	NO <input type="checkbox"/>

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20. (A) TANDEM SNOW PLOW AND HARNESS FULLY DETACHABLE: front harness and wing as one unit. Required hydraulic winch to detach and attach wing push arm. No tool or equipment required. 11' one way plow high speed MTO Specifications. 12' wing with fully hydraulic with hydraulic push arms.		
The plow shall provide 114-1/4" clear path minimum.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
One-way snow plow. Will accept JOMA 6000 cutting edge	SPECIFY: _____ MAKE: _____ MODEL: _____	
This one-way snow plow shall conform with the provision MTO Standard ES-414.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The plow shall operate effectively and without modification.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The plow shall be constructed to prevent accumulation of water in any area.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The plow shall have a hood extending 18 inches past the edge of the mould board in normal operating positions when measured at the midpoint of the plow.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
All rib shall be of one piece construction welded 100% both side to the mould board. The top edge of the mould board shall be welded 100% to the rib. Top rail of the mould board shall be manufactured of a shape 2 inches flat x 3.5 inches at 22 degrees x 2.75 inches flat x 3.5 inches at 22 degrees, welded securely to the ribs and mould board with a continuous bead.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The thickness of the mould board and hood shall be 10 U.S.S. gauge minimum.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The mould board shall pivot to allow tilting in different positions, eleven grease fitting total , three at each pivot point, plus two at the oscillation side to side.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The mould board shall be adjustable for plow angles of 45 degrees 50 degrees and 55 degrees.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Both male and female ends shall have 3/4 inch mounting pins and 5/8" adjustment pine.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Male end of adjusting assembly to be solid steel. The female end shall be at the top to prevent accumulation of water.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The driver bar shall be spaced 30.5 inch centre to centre.	YES <input type="checkbox"/>	NO <input type="checkbox"/>

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20. (B) Hydraulic Controls: Directional valve bank assembly with load sense capability for variable displacement pump, nominal flow 100 LPM (26 GPM) per section. The load sense signal originate from each section, the maximal flow of each section is factory adjusted to pre-determined settings.	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____
To prevent corrosion the air shifters will have a bronze sleeve.	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____
The control valve will include the following sections: 1 – D.A. front plow lift. 1 – D.A. front wing. 1 – D.A. wing braces. 1 – D.A. wing push arm hydraulic extension. 1 – D.A. hydraulic winch for removal of wing. 1 – Dump box control. Console 1 – Air tailgate control.	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____
The hydraulic control valves will be operated by proportional feather able in cab air controls.	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____
The control panel assembly shall be a centre console design.	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____
An oil reservoir of adequate capacity shall be supplied complete with oil level sight gauge, breather type filler cap, drain plug and oil shut off valve (oil reservoir to be the proper size for snow plow and IBS System/body dump, sander, rear plow).	YES <input type="checkbox"/> NO <input type="checkbox"/>
The valve assembly (frame mounted) will be completely closed with easy access from the driver’s side of the chassis for maintenance.	SPECIFY: _____
	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____

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20 . (C) 12' snow levelling wing fully detachable as one unit with front harness and hydraulic push arms: the front height of the wing shall be 29" minimum.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The rear height of the wing shall be 39" minimum.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Overall length of the wing shall be approximately 12 feet.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The thickness of the mould board shall be 10 U.S.S. gauge minimum.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The wing shall be fitted with the following: front 30 degree hinge with EAON RUBBER (spring not acceptable).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Snow plow cutting edge (high wear blade).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two wings shoes.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The top edge of the wing shall be boxed in and welded 100% to the ribs and the mould board so as to avoid all pockets.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The drive rib assembly shall be mounted on an upper and lower horizontal slide assembly.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The drive rib assembly slide shall be powered by a single stage, D.A. cylinder nitrated (ARCOR-N).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two wing push arms hydraulically adjustable to change clearing path from 60" to 92" shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Approved sizes of ram controlling the rear of wing braces shall be 3.5" x 26" stroke minimum cylinder with end of stroke flow reducer to lower the speed of the wing.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
6 halogen lights installed top of rear wing harness.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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20. (D) Electrical Circuits: the truck should come complete with all lighting to meet the <i>Highway Traffic Act</i> . If it is not in the Traffic regulations, these lights should be installed.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
LED light 4 3'4" diameter minimum sealed beam, shock free mounted rear wing.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Quick tack drive bar for push frame shall be 2.25 inch diameter.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The height of the mould board at the top of curve shall be as follows: front end: 29 inches (approximately) and discharge end: 54 inches (approximately).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The plow shall be fitted with two (2) shoes, MTO Standard ES 508.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
There shall be a minimum of five (5) vertical ribs shape from 3.5 inches to 7 inches by 3/8 inches minimum thickness. Minimum weld between the mould board and ribs shall be 100% welds each side alternating between the two sides.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The bottom rail on the mould board shall be 7.5" x 4", 5/8" angle below, with 3.5" x 2.5" x 3/8" welded above to form a box section, 3/8" gussets between each holes, except for the two (2) set of end hole and between two (2) holes in the middle of the mould board.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Trip mechanism shall incorporate such that the blade mechanism must return to the normal position automatically, with two (2) coil spring 12" x 4.5" x 5/8" diameter.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two separate chain grade 70, 1/2 inch diameter minimum, shall be used and these shall pick up on the push frame at a point approximately 32.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The height of the shoes shall be adjustable as shown on MTO ES 521 (One way Snow plow shoes holder).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The shoes shall Oscillate.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The mould board shall be formed in the shape of smooth curve.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The horizontal distance from the discharge end of the plow blade to the discharge end of the mould board shall be 24 inches minimum.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Sturdy eye 1/2 inch minimum thickness shall be provided at the centre of gravity for handling of the mould board.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The drive frame shall be fitted with a quick tack hitch for fast	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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one-man hook up to the truck.		
The design and quality shall meet MTO requirement. Carbide cutting edge 7/8”.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
The plow shall 3/8” inch x 12 inches rubber deflector strip, bolted to the top edge of the plow mould board along its full length.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The one way plow unit and wing shall be painted black. PPG.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
A white sandblast (Bare Metal).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two (2) coats minimum (3 mil. dry) of high quality Polyurethane paint PPG, Electrostatic application (before assembly).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
20. (E) Hydraulic fully detachable harness and wing: specify make and model of full detachable harness ELP Series 3.48 Quick tack. (Quick attached and detachable one man operation).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The harness shall be mounted at the front end of the frame, and shall be (PINNED) to the check plate with integrated front Bumper. Bumper stays on at all time.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The lifting frame shall be bolted to the push plate conform MTO standards.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Lifting Ram diameter – 4” D.A. minimum	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Lifting Ram Stroke – shall be 12” minimum.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The cylinder rod shall be nitrated. (ARCOR-N)	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Lift of grab link for nose chain shall be 18” minimum.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Drive ears shall be 30 ½”centre to centre.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Height of drive connection shall be 19” when mounted, truck empty.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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Check plates ¾” thick 44 W steel to match truck frame shall be supplied and shall be compatible with Harness and Plow.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Three (3) grab links shall be supplied.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two (2) sealed beams Halogen type headlamps, with high and low beam shall be supplied and installed on the Hood one each side to eliminate vibration.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Right front helper spring shall be provided. (AEON RUBBER) .	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two (2) turn signals shall be installed and the wires for the truck turn signal shall be connected to these lights. These wires shall be well-protected in looms.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The plow lights and signals shall be equipped with “Quick-Tack” ends.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
All hydraulic hoses and wiring shall be adequately supported to ensure that wear and sag is completely eliminated.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Hydraulic hoses to be Parker Tough Cover or equivalent.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The plow and wing front harness to be easily and quickly attachable or detachable as one unit (ONE MAN OPERATION) .	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
When detached it shall reduce the weight of the vehicle and improve operating safety and driving convenience.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Hydraulic power tilts function to be controlled by in cab feather air control.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
All hydraulic quick coupler shall be (Thread Lock quick coupler) .	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
A convex mirror 12” of diameter shall be mounted top back side of front wing post.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
LED lights installed top front side of wing post.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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The truck harness shall be Sandblast/Prime Epoxy 2 coats min. 5 mil dry and Painted 2 coats of polyurethane black 3 mil dry Electrostatic application.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
A Parts Manual shall be supplied with each unit.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
Warranty one year parts and labor.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
21. TANDEM 30 TON IBS SYSTEM	
A. Make: ELP Model: IBS – 100 system - 30 Tons or equivalent Interchangeable body system	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
B. Characteristics: Interchangeable body systems to allow different components to be added to the truck frame by operators in less than 30 minutes.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
C. Structure: Construction in high quality steel with continuous weld.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
Frame with two (2) square tubing's HSS 3 ½" x 3 ½" x 3/8" of high quality steel.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
The manufactured front frame in ¾" steel plate of high quality steel cut and shaped to adapt to a standard 30 ton dump body hoist and to incorporate any other type of equipment.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
Hydraulic locking system, two (2) Mailhot D.A. cylinders 2" diameter with 6" stroke and ¾" nitrite rod (ARCOR-N) cylinder installed in a parallel position. Inside the IBS frame two (2) Grease able lock pins of 1 ¼" installed on each cylinder to secure the equipment in a working position.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
Dump cylinder Mailhot CS 130 – 30 Ton.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
An 8,000 lbs planetary winch with a 6" drum direct drive with a hydraulic motor installed inside the tubular HSS frame, Grease able guide roller and a 6" Polyester belt Capacity of 9,300 lb and a hook with certified capacity tag.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____
Grease able back hinge ELP 30 Ton welded to the truck frame and IBS tubular frame.	YES <input type="checkbox"/> NO <input type="checkbox"/> SPECIFY: _____

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All hydraulic hoses shall be rated 5,000 PSI.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
All inverted frame fabricated with two (2) angles sliding on the IBS frame with bushings to lock the equipment. These angles are welded or bolted to the equipment with two (2) manual outrigger systems to hold the front of the equipment up in position to be ready for pick up whenever you need.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The ELP IBS-100 should be adjusted to the truck carrier, equipment and accessories.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Three additional controls should be installed to operate the IBS system. It should be incorporated to the hydraulic system and only the pneumatic control should be installed in the centre console to be accessible to the operator.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The quick coupler systems for electrical, air and hydraulic systems of the equipment must be for each piece of equipment with easy accessibility behind the cab.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
D. Preparation and Finish of Product: A white sandblast (Bare Metal).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Two (2) coats minimum (5 mil.) of high quality epoxy primer PPG, Electrostatic application (before assembly).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two (2) coats minimum (3 mil.) of high quality Polyurethane paint PPG, Electrostatic application (before assembly). Colour: Black.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
One inch pintle plate at rear of frame PL410. Pintle hook installed with glad hands.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
E. Warranty: The transfer of two (2) pieces of equipment should be done simply, with the operator only, in a secure manner.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The supplier should provide the names and addresses of a least five (5), Municipality and Contractor who have owned this type of equipment for more than two (2) year in Ontario. Not responding to this clause could cause the tender to be rejected.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
An operator training session of the IBS-100 system and all the equipment in regards to the purchase will be offered.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The Supplier should provide a written copy of the warranty for the total equipment, parts and labour for one (1) full year, following the delivery date.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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PART “D” – FORM OF TENDER

**D-2 SPECIFICATIONS AND CONFIRMATION FOR IBS TANDEM V HOPPER DUMP
SPREADER BODY**

State Make: _____

State Model: _____

The following Specifications are designed to generally describe the features required. The Supplier is advised that if the features are not standard equipment or normal options, please indicate exceptions in the space provided.

Specification:

Confirmation:

1. GENERAL	
Make: ELP	YES <input type="checkbox"/> NO <input type="checkbox"/>
Model: IBS 400D-14FBY-Dump V Hopper 2 spinner, left and right or both cross conveyor and one chain only.	SPECIFY: _____
Capacity: 12 Cubic yards with 6”side board.	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____
Spreader body’s Dump “V” hopper type.	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____
Cross Conveyor with one chain only, 2 spinner front left or right side or both spinner at the same time.	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____
LENGTH: 186” (overall length including Cab shield).	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____
WIDTH: 100” (overall width).	YES <input type="checkbox"/> NO <input type="checkbox"/>
	SPECIFY: _____

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PART “D” – FORM OF TENDER

HEIGHT: 79” (overall width).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
HOPPER WIDTH: 94”.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
HOPPER HEIGHT: 64”.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
HOPPER LENGTH: 168”.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
AIR REAR TAILGATE for dumping load.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Sub frame installed under V Hopper with a Dump Cylinder connection.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Dump cylinder Mailhot CS 130 – 30 Tons and 50 degree dumping angle.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
2. MECHANISM: Worm gearbox shall be mounted directly to main conveyor shaft in steel casting.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Main conveyor hydraulic motor shall be direct drive to gearbox.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECITY: _____	
Main conveyor drive shaft (heavy duty) shall be mounted to a self-alignment bearing 1 1/2”diameter (stress proof).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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Height tooth sprocket with a shoulder specially moulds to support the chain.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Rear main conveyor with two (2) Cast rollers.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
3. CHARACTERISTIC: Main conveyor shall be adjustable with Grease able cylinder and cross conveyor with an adjustable screw.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Main conveyor chain of 22” centre type D88K.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Cross conveyor hydraulic motor shall be joined with flexible coupling on 1 ¼” shaft stress proof.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Cross conveyor chain of 18” centre type D88K.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Speed must be synchronizing with both conveyors.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Air Rear Tailgate with an opening of 12.6 square ft.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Rear main conveyor as a welded cover over the conveyor to seal the tailgate.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Polyurethane sheet installed under main conveyor to minimize abrasion and corrosion of the truck frame.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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4. STRUCTURE: Cross conveyor shall be 21”.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Main conveyor shall be 26”.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Main conveyor shall be built of one (1) piece of steel (shape) for more rigidity and corrosion resistance.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Main conveyor shall be supported by two (2) steel beam 3” x 4” x 3/16” thickness.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Cross conveyors shall be built of one (1) piece of steel (shaped) for more rigidity and corrosion resistance.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Hopper sides shall be in one (1) piece only no joint.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Angle slide and outrigger stand (¼) IBS 100 – 30 tons assembly. (CSA Approved).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
For protection during operation, the front and top sides of the cross conveyor will be fitted with a safety guard (CSA approved).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
5. CHARACTERISTICS: Hopper shall have an inside centre support of 3” x 4” HSS with two (2) cross member and gusset and five (5) exterior gusset on each side.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Top screen with an Inverted “V” over the conveyor to reduce the load on the conveyor and ease flow of material.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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Removable screen in 4 sections black 3/8” interwoven steel rod in high density carbon steel with 3” x 3” opening with inverted V above conveyor.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Full 12” integrated cab shield.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Retractable ladder on passenger side.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Side plate on each side for 2” x 6” wood extension.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Thickness steel of the hopper is 10 Gauge.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Conveyor and wearing plates steel thickness is 3/16”.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
No sharp corner.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The entire hopper will be welded 100% inside and out.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
6. MUD FLAP AND BUMPER: Fenders shall be continuous along each side of V hopper to provide cover for rear wheels and protect the body.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Fender width shall be sufficient to accommodate future on board liquid storage tanks.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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Mud flap shall be provided before and after of rear wheels.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
10” bumper with integrated LED lights Brake/Signal/Tail.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
7. SPINNERS: Spinner shaft supported by two (2) seal bearing inside a tube.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Grease able spinner tube to keep water out and protect seal bearing.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Flip up Spinner and adjustable height.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
8. CHARACTERISTICS: Spinner disc manufactured from polyurethane 18” in diameter.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The spinner shall be capable of spreading evenly upon to 20’ (6 m) radius.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Spinner drive will be direct via hydraulic orbit motors.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Spinner height shall be adjusted to accommodate chassis height and capable of a discharge rate from 45 kg per lane km, to 704 kg per lane km (100 lbs per lane mile to 2,500 lbs per lane mile).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Spinner spot lights, main conveyor light (LED only).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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9. CLEAN UP OPENING: Conveyor structure opening to allow through cleaning with a pressure washer.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Back inspection door or tailgate to allow through cleaning with a pressure washer.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Base opening gusset reinforcement with opening to release material when washing the unit with a pressure washer.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
10. DISTRIBUTION DOOR: The flow control gate between main and cross conveyor shall be screw adjustable by hand crank from driver's side of the V hopper.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
The opening gate shall be equal to the full width of the conveyor and should have 12" minimum height. The opening gate shall be made to avoid to overflowing when the truck is functioning or turned off.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
11. HYDRAULIC CONTROL & SPREADING SYSTEM: The spreading operation and rate shall be controlled by a recognized proportional unit – “DICKEY-john” or equivalent – powered by the existing hydraulics of the snow plow truck.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
All fittings, valves, hoses and drive shaft shall be supplied and installed by the supplier. Any additions or modifications will be the responsibility of the supplier.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
12. LIGHTING SYSTEM: Lighting system sealed with junction box according to MTO Standard.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
All junctions shall be in the junction box only; all joints shall be welded and sealed.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
All junctions shall be in the junction box only; all joints shall be welded and sealed.	SPECIFY: _____	
Three (3) auxiliary LED lights shall be installed one (1) for each of the spinner and one (1) for the main conveyor.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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One (1) 16884 Star Split LED minibar.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Rear lights Ontario Traffic Act, 2 set of 1 Amber/1 Blue rectangular style L.E.D, top Right and Left Corner of V Hopper. Yellow: 77363 Blue: 77365	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two back up LED lights installed top of rear fender.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
13. FINISHING: Preparation of body before painting with a white sandblast.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two (2) coats minimum (5 mil.) of high quality epoxy primer PPG, Electrostatic application (before assembly).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Two (2) coats minimum (3 mil.) of high quality Polyurethane paint PPG, Electrostatic application (before assembly).	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
All coats shall be applied before the assembly of hoses, electric wires and other component and accessories.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
Color: Municipal black.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	
14. WARRANTY: The Supplier should offer a written warranty of the total equipment, parts and labor for one (1) full year following the delivery date.	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	SPECIFY: _____	

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PART “D” – FORM OF TENDER

TENDER PRICE

**ALL ITEMS MUST BE BID. TAY VALLEY TOWNSHIP MAY AWARD ITEMS
SEPERATELY.**

I/We the undersigned agree to the Supply and Delivery of the below items complete in working condition, in accordance with Parts “A”, “B”, “C” and “D” of this Tender for the following price:

**Item D-1 ONE (1) 2015 MODEL YEAR OR NEWER CAB AND CHASSIS WITH
TANDEM SNOW PLOW AND HARNESS FULLY DETACHABLE AND
TANDEM 30 TON IBS SYSTEM**

State Make: _____

State Model: _____

Year: _____ Fuel Economy Highway: _____

Supply One (1) 2015 model year or newer Cab and Chassis with Tandem Snow Plow and Harness fully detachable and Tandem 30 Ton IBS System	\$
13% H.S.T.	\$
TOTAL TENDER PRICE	\$

Item D-2 ONE (1) IBS TANDEM V HOPPER DUMP SPREADER BODY

State Make: _____

State Model: _____

Year: _____

Supply One (1) IBS Tandem V Hopper Dump Spreader Body	\$
13% H.S.T.	\$
TOTAL TENDER PRICE	\$

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PART "D" – FORM OF TENDER

List three municipalities in Ontario that have purchased a similar machine in the last 2 years:

1. _____

2. _____

3. _____

List location and contact information of Manufacturers Parts Warehouse:

Distance from Tay Valley Township to nearest fixed support location:

KMs _____

Location _____

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PART "D" – FORM OF TENDER

TENDER DEPOSIT CHEQUE METHOD OF RETURN – FORM 4

Please complete this form indicating your preference
for returning your tender deposit cheque.

☐

The Company will **pick up** cheque.
**A Township Staff Member will notify the Company when the
cheque is available for pick-up.**

If you are selecting this option, if possible, please provide the name of
the representative who will pick up the cheque.

Name: _____

☐

Send cheque by **Purolator Courier**.
Note: courier charges will be the responsibility of the Company.
My Purolator Account #: _____

☐

Send cheque by **Regular Mail**.

Company Name: _____

Signature of company representative

Date: _____

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PART “D” – FORM OF TENDER

CHECKLIST

1. Deposit enclosed
(pursuant to Part “A” – Information to Bidders) ☐
2. Completed Part “D” enclosed ☐
3. Pertinent literature describing the Cab and Chassis with Tandem Snow
Plow and Harness Fully Detachable, Tandem 30 Ton IBS System and
IBS Tandem V Hopper Dump Spreader Body. ☐

DOCUMENTS UPON AWARD OF CONTRACT:

1. Certificate of Liability Insurance – Part “A” (3)
2. 2015 Health and Safety Policy – Part “A” (13)
3. WSIB Certificate of Clearance – Part “A” (13)
4. Accessibility Declaration – Part “A” (14)

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PART “D” – FORM OF TENDER

TENDER LABEL – FORM 5

To help identify your Tender, please **cut out the label below and affix this label to the outside of your Tender Envelope:**

THE CORPORATION OF TAY VALLEY TOWNSHIP TENDER FOR CAB AND CHASSIS, TANDEM SNOW PLOW AND DUMP SPREADER BODY CONTRACT #2015-PW-004	
The Corporation of Tay Valley Township 217 Harper Road, Perth, Ontario K7H 3C6	
Attention:	Amanda Mabo, Clerk
Telephone:	613-267-5353 ext. 130
Toll Free:	1-800-810-0161
Fax:	613-264-8516
E-mail:	clerk@tayvalleytwp.ca
CONTRACT NUMBER:	CLOSING DATE:
2015-PW-004	1:00PM September 23rd, 2015
YOUR COMPANY’S NAME AND ADDRESS: 	



Use the above label for your envelope when you submit your Tender Document.