



TOWNSHIP OF MELANCTHON SPECIAL ELECTRONIC MEETING - AGENDA THURSDAY, JUNE 24, 2021 – 12:30 P.M.

Join Zoom Meeting

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Meeting ID: 841 6514 9228

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- 1. Call to Order**
- 2. Approval of Agenda**
- 3. Declaration of Pecuniary Interest**
- 4. General Business**
 1. Plow Truck Tender
- 5. Confirmation By-law**
- 6. Adjournment**

T2021 PW-21-08 - Supply & Delivery of Three (3) Snowplows - Quote Form - Table B - Pricing Form - Township of Melancthon							
		B & I Complete Truck Centre		Lewis Motor Sales Inc.		Rush Truck Centres of Canada	
		<u>Submission 1</u>		<u>Submission 1</u>		<u>Submission 1</u>	
	Quantity	Unit Price	Total	Unit Price	Total	Unit Price	Total
2021 (or newer) Tandem Axle Truck Cab and Chassis - Township of Melancthon as per Specifications	1	\$ 150,900.0000	\$150,900.00	\$ 143,214.0000	\$143,214.00	\$ 145,264.0000	\$145,264.00
2021 (or newer) Dump Sander Combination Snowplow Equipment - Township of Melancthon as per Specifications	1	\$ 142,289.0000	\$142,289.00	\$ 142,289.0000	\$142,289.00	\$ 142,289.0000	\$142,289.00
Subtotal:			\$ 293,189.00		\$ 285,503.00		\$ 287,553.00
HST			\$ 38,114.57		\$ 37,115.39		\$ 37,381.89
Total Contract Amount:			\$331,303.57		\$322,618.39		\$324,934.89

T2021 PW-21-08 - Supply & Delivery of Three (3) Snowplows - Specification - Table 1B: Township of Melancthon General

	B & I Complete Truck Centre	Lewis Motor Sales Inc.	Rush Truck Centres of Canada
	<u>Submission 1</u>	<u>Submission 1</u>	<u>Submission 1</u>
<u>Item</u>	<u>Description</u>	<u>Description</u>	<u>Description</u>
Vehicle Make	WESTERN STAR	International	International
Vehicle Model	4700SBA	HV613	HV613
Vehicle Year	2022	2023	2023
Vehicle Engine	DETROIT DD13	Navistar A26	International A26
Snow Plow Make	VIKING	Viking	Viking
Snow Plow Model	135HSE9	PL1415A	plow models are 135HSE9. body is PL1415HW2.
Delivery Date for 2021 (or newer) Snow Plow	APRIL 2022 OR POSSIBLY SOONER	June 14th	September/October

T2021 PW-21-08 - Supply & Delivery of Three (3) Snowplows - Specification - Table 3B: Township of Melancthon Dump/Sander Combination Snowplow Equipment

		B & I Complete Truck Centre		Lewis Motor Sales Inc.		Rush Truck Centres of Canada	
		Submission 1		Submission 1		Submission 1	
Type	Description	Yes - No	Comment: If 'NO', add description if other than Description/Specification specified	Yes - No	Comment: If 'NO', add description if other than Description/Specification specified	Yes - No	Comment: If 'NO', add description if other than Description/Specification specified
General	VCL135HSE9 One Way Plow 35" intake 64" discharge height 14' 4" overall length 11' edge 9' clearing path. (10ga moldboard skin)Standard Features: 1. Heavy duty tubular push frame 10 gauge brake formed steel moldboard construction and 100% continuous welds on the moldboard ribs. Perfect for high speed plowing.	Yes	Yes	Yes	As Stated	Yes	yes
General	3 Slotted trip lugs allow the plow to trip when encountering speed bumps and other road obstacles.	Yes	Yes	Yes	As Stated	Yes	yes
General	Adjustable trip spring assembly provides safe tripping action in a variety of conditions.	Yes	Yes	Yes	As Stated	Yes	yes
General	Adjustable moldboard angle for enhanced edge efficiency. Shear bolts on moldboard brace protect the plow components and truck.	Yes	Yes	Yes	As Stated	Yes	yes
General	Adjustable push frame shoes.	Yes	Yes	Yes	As Stated	Yes	yes
General	Standard cast steel nosepiece.	Yes	Yes	Yes	As Stated	Yes	yes
General	Grade 70 chain	Yes	Yes	Yes	As Stated	Yes	yes
General	Safety cable installed from pushframe to moldboard	Yes	Yes	Yes	As Stated	Yes	yes
General	1/2 x 8 x 132" steel cutting edge center punched	Yes	Yes	Yes	As Stated	Yes	yes
General	7/8 x 6 x 132" carbide cutting edge (3pcs 7/8 x 6 x 44") MTO trap (45 deg)	Yes	Yes	Yes	As Stated	Yes	yes
General	Carbide nose piece in lieu of cast steel	Yes	Yes	Yes	As Stated	Yes	yes
General	Qty (2) of V600 Ni hardened 8" punch moldboard shoe (each)	Yes	Yes	Yes	As Stated	Yes	yes
General	Quick attach plate and bar	Yes	Yes	Yes	As Stated	Yes	yes
General	Hydraulic tilt moldboard w/ moldboard angle indicator rod and QD connectors	Yes	Yes	Yes	As Stated	Yes	yes
General	Qty (2) of MTO reflective warning marker w/ mounting bracket	Yes	Yes	Yes	As Stated	Yes	yes
General	Baril DCC-181 Finish w/ corrosion protection: Medium gloss black (moldboard and push frame)	Yes	Yes	Yes	As Stated	Yes	yes
General	Spring retaining kit	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	VCL500T Hydraulic Tilt Harness includes 1/2" 44w tailplates to suit chassis plow lift yolk and 4x10 plow lift cylinder.Heavy duty inner & outer rotation tubes with grease fittings.Single non load bearing lock pin design-1/2" x 6" tilt cylinder	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	Cut O.E.M. front bumper and re-install ends to chassis	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	Plow dampening accumulator kit	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	Quick attach pockets and pins	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	Grote LED plow lights (HEATED) c/w integrated signal lights	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	VCL350SCL Rear cable lift wing tower. Includes wing integrated back of cab hydraulic oil tank. Includes frame mount front post and rear wing tower. Does not include pusharms or moldboard.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	12" Convex mirror with stainless steel protective backer plate	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	12" raised angle iron bracket to mount Mirror	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Viking tube style frame cross member	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Aeon rubber helper spring assembly	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Dual adjustable needle valves for Rear Wing rate control of UP/DN	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Rear wing harness mounted heated 5" Square 3000 Lumen LED floodlight c/w mounting bracket and wiring harness	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Height adjustable light post mounted to front post w/ dual 6" spotlights mounting brackets and wiring harness	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Qty (2) of Front post mounted heated 4" Square 3000 Lumen LED spotlight c/w mounting bracket and wiring harness	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Baril DCC-181 Finish w/ corrosion protection : Medium gloss black (wing towers harness)	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	VCL156WHD 13" moldboard c/w pusharms Ultra heavy duty ribbed construction for extreme conditions. Pre-Punched cutting edge holes for easy blade installation.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	5/8 x 8 x 144" (one piece blade) high wear plow blade	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	V4S-1 curb shoe (each)	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	Baril DCC-181 Finish w/ corrosion protection : Medium gloss black (wing moldboard)	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	Parking leg for WHD wing	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	MTO reflective warning marker w/ mounting bracket	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	Conspicuity safety reflective tape on wing arms and on rear edge of wing	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	PL141SHW-II 12.5 cu yd water level capacity (15.4 cu yd w/ 10" sideboards) 9.55 m3 water level capacity (11.77 m3 w/ 10"sideboards).	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	U-Style Design - Continuous roll formed sides with no brakes for optimal material flow to main conveyor. Specifically designed for sand salt and aggregate material spreading.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Self tensioning chain ensures that the chain is functioning properly regardless of wear.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Front discharge.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Double acting tailgate for carrying large items.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Air tailgate release for easy material dumping.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Body prop dump hinge for safety checks	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Durable 3/16" corten sides resist material wear & corrosion.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Left front inspection ladder.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Trunnion mount hoist cylinder	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Qty (14) of body ft Hardox 450 high tensile body construction. (HW-II LW-II) (conveyor cover remains standard rubber for HW-II and LW-II) Hardox 450 is an abrasion-resistant steel with a nominal hardness of 450 HBW. Hardox 450 combines good bendability and weldability with an option for guaranteed impact toughness. Provides better dent and abrasion resistance as well as longer wear life so you can achieve even greater savings. Yield strength is around 175000 psi Tensile strength is around 203000 psi.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Asphalt door in tailgate (Hardox body)	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Shovel holder installed on driver's side front - Corten or Hardox body only	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Main conveyor sensor motor in lieu of standard 6 cu. in. w/o adapter cable	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Red/white 2" reflective tape along body fenders & across bottom tailgate	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Main Conveyor cover clean out screen to be "PINNED" not bolt on	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Aluminium ladder in lieu of standard ladder FLH lift to lock 1167-68	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote "Ultra Blue Seal" - LED body lighting kit c/w license plate lamp LH and RH 2-1/2" round red LED rear clearance 6" oval LED back-up 2 x 6" oval red LED stop/turn/tail front side 2-1/2" marker lights.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	SWS 16397-MT amber/blue LED mini-bar with cab shield mount	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Removable Upper red assembly - Side mount led aluminium blue/amber w/ 2 x 4" red 2 x 7" red 1 x 4" blue strobe (LH) & 1 x 4" amber strobe (RH).	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Qty (2) of Corner Post heated LED Flood light pointed at ground and mounting bracket (LH & RH) on OEM rev	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote blue self flashing 4" round LED strobe w/ stainless steel mount box	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote amber self flashing 4" round LED strobe w/ stainless steel mount box	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote blue self flashing LED 6" corner post strobe	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote amber self flashing LED 6" corner post strobe	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Single spinner - reversible belt cross conveyor for LW & HW body	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	RH material chute for reversible cross conveyor	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Hinged salt extension chute	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Extended Cross Conveyor SSSL Guards	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Stainless steel cross conveyor upcharge includes frame and chutes	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Qty (2) of Cross conveyor mounted heated 5" square 3000 lumen LED floodlight c/w mounting bracket and wiring harness Mounting location: BOC drivers side	Yes	Yes	Yes	As Stated	Yes	yes

Proline Options	VCL manufactured air tarp kit for 13' & 14' Prolines (less tarp cover) c/w rolled aluminium tarp arms	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	Mesh tarp cover 12 to 14 ft Prolines	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	Black Hardwood sideboards - Pair	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	PLLW-II hoist pins remote grease kit	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	PLLW-II rear bearing remote grease kit	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	PLLW-II dump hinge remote grease kit	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	DuPont Imron Elite Finish w/ chromate epoxy DuPont CR2580 primer : Paint Code: Melancthon Fleet Red	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	Qty (14) of body ft of LineX colour tinted to match box on fender tops and fender sides only	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	LineX colour tinted rear face of body posts	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Chassis mounted aluminium fenders T/A chassis	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Pintle plate and bracing for pintle hooks rated > 30000# MGTW c/w Baril DCC-181 finish - medium gloss black	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Holland PH410RA11 with air plunger and 2" tow eyes 100000 # MGTW. . xx inches ground level to the inside bottom of the pintle hook saddle.	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Tectran Traction Tec swing away glad hands (per set)	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	pedestal mount for beacon light: cable tower (BOC hyd. tank)	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Rear mounted heated LED floodlight for work light c/w bracket	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Re-install OEM 7 pin trailer plug & pintle plate	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Stainless steel hinged chassis cover	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Re & RE Misc Chassis Components.	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Freight to ship wing to customers location	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Freight to ship plow to customers location	Yes	YES	Yes	As Stated	Yes	yes
MTO Signs	Tailgate checker kit	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	CS550 with 2 function SCB block	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Danfoss pump & valve	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Sauer Danfoss 90cc crank mount piston pump	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	VCL Low oil level indicator w/ in cab warning light and buzzer	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Standard hydraulic oil	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Iron high pressure filter ass'y w/10 micron absolute filter	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Sauer Danfoss PVG32 series1st section c/w inlet and outlet sections	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Qty (6) of Sauer Danfoss PVG32 series Remaining sections per section	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Qty (8) of VCL Standard 2 wire Hydraulic hose and hose ends by number of sections Aeroquip 100R16 2 Wire GH781 with brazen resistant cover	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Stainless steel hydraulic lines - per truck (body/chassis)	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Black Partec hose wrap (seat belt mateial) not kevlar	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Stainless Steel Hose Hanger in lieu of Standard	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Valve enclosure assembly - SCL 6-9 Section (SSTL)	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Bosch Rexroth CS550 spreader control c/w 2 section valve block/w cabling harness	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Bosch Main Conveyor Motor sensor feedback cable	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Sprague Road Watch SS Road Temp sensor with interface to Bosch Controller	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Body up indicator c/w in cab warning light ONLY	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	New cab console auxiliary switch box includes 16 illuminated push buttons to control lighting.	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Integrated control console assembly	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Lift To Lock RMH Air Control: \RWING	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Qty (4) of Standard RMH Air Control: \PLIFT \FWING \WSLIDE \TILT.PLOW	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Lift To Lock RMH Air Control: \HOIST	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Standard RMH Air Control: \TILT.HITCH	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Qty (3) of Air Switches: \TAIL \TARP \PINTLE	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Cab floor stiffener plate (specify chassis make model & year)	Yes	YES	Yes	As Stated	Yes	yes

T2021 PW-21-08 - Supply & Delivery of Three (3) Snowplows - Specification - Table 2B: Township of Melancthon Tandem Axle Truck (Cab and Chassis)

		B & I Complete Truck Centre		Lewis Motor Sales Inc.		Rush Truck Centres of Canada	
		Submission 1		Submission 1		Submission 1	
Type	Description	Yes - No	Comment: If 'NO', add description if other than Description/Specification specified	Yes - No	Comment: If 'NO', add description if other than Description/Specification specified	Yes - No	Comment: If 'NO', add description if other than Description/Specification specified
Axles	Front axle shall be a Meritor MFS-20-133A setback front axle of 22000 lbs minimum capacity with 23000 lb. flat leaf suspension	Yes	YES	Yes	As Stated	Yes	AXLE FRONT NON-DRIVING (Meritor MFS-22-133A) Wide Track I-Beam Type 22000-lb Capacity
Axles	Front shock absorbers	Yes	YES	Yes	As Stated	Yes	yes
Axles	Vented front hub caps with window centre and side plugs - oil	Yes	YES	Yes	As Stated	Yes	yes
Axles	Synthetic 75W-90 axle lube in all axles	Yes	YES	Yes	As Stated	Yes	yes
Axles	Front axle bearings to be oil fed	Yes	YES	Yes	As Stated	Yes	yes
Axles	Rear axle shall be 46000 lbs. minimum capacity. Lube: synthetic oil.	Yes	YES	Yes	As Stated	Yes	AXLE REAR TANDEM (Meritor RT-46-160P) Single Reduction 46000-lb Capacity with Lube Oil Pump Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle 200 Wheel Ends
Axles	Rear axle shall be tandem dual drive lube oil pump with inter axle differential and driver controlled main locking differential in rear-rear axle and forward rear. Indicator light for each inter axle lockout switch.	Yes	YES	Yes	As Stated	Yes	AXLE REAR TANDEM (Meritor RT-46-160P) Single Reduction 46000-lb Capacity with Lube Oil Pump Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle 200 Wheel Ends
Axles	Rear axle ratio shall be 4.56	Yes	YES	Yes	As Stated	Yes	yes
Axles	Rear tandem axles shall have a 54" spread between the axles - must comply and be labelled with SPIF Regulations	Yes	YES	Yes	As Stated	Yes	SUSPENSION REAR TANDEM (Hendrickson HMX EX 460) Walking Beam 46000-lb Capacity 54" Axle Spacing Rubber Springs with Transverse Torque Rods Rubber End Bushings
Axles	Iron rear axle carriers with optional heavy duty axle housing MXL 18N Meritor extended lube main driveline with full round yokes; half round yokes for inter axle	Yes	YES	Yes	As Stated	Yes	yes
Axles	Hendrickson Haulmax 46000lb. rear suspension	Yes	YES	Yes	As Stated	Yes	yes
Axles	Hendrickson HN and Haulmax series steel beams with bar pin fore and aft transverse control rods rear shock absorbers for both axles	Yes	YES	Yes	As Stated	Yes	yes
Power Steering	TRW THP-60 power steering with RCHAS auxiliary gear power steering pump - 4 quart power steering reservoir	Yes	YES	Yes	As Stated	Yes	yes
Power Steering	Steering column shall be tilt / telescoping with 18" steering wheel	Yes	YES	Yes	As Stated	Yes	yes
Power Steering	Oil / air power steering cooler	Yes	YES	Yes	As Stated	Yes	yes
Brakes	Service Brakes - Full Air Brakes - ABS	Yes	YES	Yes	As Stated	Yes	BRAKE SYSTEM AIR Dual System for Straight Truck Applications
Brakes	Rockwell Front brakes size 16 1/2" x 6" minimum	Yes	YES	Yes	As Stated	Yes	BRAKES FRONT (Bendix Spicer ES-165-K) Air S-Cam Type Heavy Duty Fabricated Spider Fabricated Shoe Single Anchor Pin Size 16.5" X 6" 23000-lb Capacity
Brakes	Rockwell Rear brakes size 16 1/2" x 7" minimum	Yes	YES	Yes	As Stated	Yes	BRAKES REAR (Bendix Spicer ES-165-7X) Air S-Cam Type Heavy Duty Fabricated Spider Fabricated Shoe Single Anchor Pin Size 16.5" x 7" 23000-lb Capacity per Axle
Brakes	Air tanks to have manual drains included	Yes	YES	Yes	As Stated	Yes	yes
Brakes	Air compressor - 19.0 CFM capacity minimum with dry type air cleaner on intake shall be supplied	Yes	YES	Yes	As Stated	Yes	yes
Brakes	Heated BW-90 air dryer with Bendix oil coalescing filter shall be supplied. Air dryer to be mounted on inside of frame rail.	Yes	YES	Yes	As Stated	Yes	AIR DRYER LOCATION Mounted Inside Left Rail Back of Cab
Brakes	Brake chambers must be 24 square inch minimum on front brakes and 30 square inch minimum on rear brakes	Yes	YES	Yes	As Stated	Yes	BRAKE CHAMBERS REAR AXLE (Bendix EverSure) 30/30 Sqn Spring Brake BRAKE CHAMBERS FRONT AXLE (Bendix) 24 Sqn
Brakes	Automatic slack adjusters front and rear (HALDEX) safety brake travel indicators	Yes	YES	Yes	As Stated	Yes	SLACK ADJUSTERS FRONT (Haldex) Automatic SLACK ADJUSTERS REAR (Haldex) Automatic
Brakes	Haldex automatic slack adjusters front with stainless steel clevis pins front and rear	Yes	YES	Yes	As Stated	Yes	SLACK ADJUSTERS PINS Stainless Steel Slack Adjuster Pins/Cotter Pins on Front and Rear
Brakes	Tractor Package - hand control valve and tractor protection valve including lines extended to end of frame including glad hands & SAE J560 7-way trailer cord receptacle	Yes	YES	Yes	As Stated	Yes	yes
Brakes	Jacobs compression brake with in-dash driver controlled settings	Yes	YES	Yes	As Stated	Yes	yes
Frame	Frame reinforcement must be full length outer "C" Channel heat treated alloy steel (120000 PSI Yield); 3" (6mm) OAL	Yes	YES	Yes	As Stated	Yes	FRAME REINFORCEMENT Full Outer C-Channel Heat Treated Alloy Steel (120000 PSI Yield) 10.813" x 3.892" x 0.312" (274.6mm x 98.8mm x 7.9mm) 480.0" (12192mm) OAL
Frame	Frame rails heat treated alloy steel 120000 PSI yield; 7/16" x 3 9/16" x 11 1/8" minimum OAL	Yes	YES	Yes	As Stated	Yes	FRAME RAILS Heat Treated Alloy Steel (120000 PSI Yield); 10.115" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL
Frame	Mounting of snow plow cheek plates shall be possible	Yes	YES	Yes	As Stated	Yes	yes
Frame	18" minimum front frame extension with 1/2" insert	Yes	YES	Yes	As Stated	Yes	FRAME EXTENSION FRONT Integral; 20" In Front of Grille with Outer C-Channel Reinforcement
Frame	Front swept back steel bumper same colour as chassis shall be supplied. Body builder to cut and re-install ends on chassis.	Yes	YES	Yes	As Stated	Yes	BUMPER FRONT Swept Back Steel Heavy Duty
Suspension	202" W.B. C.A. shall be 138" clear to accept the combination plow equipment as outlined in Appendix B NOTE: Dealer to check with body builder prior to ordering chassis.	Yes	YES	Yes	As Stated	Yes	yes
Suspension	Front spring capacity at the ground 11500 lbs. each for a total of 23000 lb rating	Yes	YES	Yes	As Stated	No	SUSPENSION FRONT SPRING Parabolic Taper Leaf Shackle Type 22000-lb Capacity Steel Springs 20K Capacity and (2) Rubber Auxiliary Springs 2K Capacity with Shock Absorbers
Suspension	Rear suspension Hendrickson Haulmax model HN-54 46000 lbs. minimum	Yes	YES	Yes	As Stated	Yes	SUSPENSION REAR TANDEM (Hendrickson HMX EX 460) Walking Beam 46000-lb Capacity 54" Axle Spacing Rubber Springs with Transverse Torque Rods Rubber End Bushings
Wheels Tires and Rims	Tire size front:	Yes	YES	Yes	As Stated	Yes	TIRE FRONT 425/65R22.5
Wheels Tires and Rims	425/65R22.5 Michelin XZY-3 20 ply	Yes	YES	Yes	As Stated	Yes	TIRE FRONT 425/65R22.5 Load Range L XZY-3 (MICHELIN) 465 rev/mile 65 MPH All-Position
Wheels Tires and Rims	Tire size back:	Yes	YES	Yes	As Stated	Yes	TIRE REAR 11R22.5
Wheels Tires and Rims	11R22.5 Michelin XDS2 16 ply	Yes	YES	Yes	As Stated	Yes	TIRE REAR 11R22.5 Load Range H X MULTI D (MICHELIN) 494 rev/mile 75 MPH Drive
Wheels Tires and Rims	Rim size front:	Yes	YES	Yes	As Stated	Yes	WHEELS FRONT (Accuride 29807) DISC; 22.5x12.25 Rims
Wheels Tires and Rims	Disc 22.5" x 12.25" 10-stud hub piloted with 4.75 insert 5 hand steel disc flanged nut metric mount 12.25 DC rims with steel hubs (Accuride part number 29807) powder coated white	Yes	YES	Yes	As Stated	Yes	WHEELS FRONT (Accuride 29807) DISC; 22.5x12.25 Rims Powder Coat Steel 5-Hand Hole 10-Stud 285.75mm BC Hub-Piloted Flanged Nut with Steel Hubs Offset 5.37"
Wheels Tires and Rims	Rim size back:	Yes	YES	Yes	As Stated	Yes	WHEELS REAR (Accuride 29169) DUAL DISC; 22.5x8.25 Rims
Wheels Tires and Rims	22.5" x 8.25" 10 Stud Hub piloted (Accuride part number 29169PKWH121) - 5 hand HD steel disc rear rims powder coated white	Yes	YES	Yes	As Stated	Yes	WHEELS REAR (Accuride 29169) DUAL DISC; 22.5x8.25 Rims Powder Coat Steel 5-Hand Hole 10 Stud 285.75mm BC Hub-Piloted Flanged Nut with 472" Thick Increased Capacity Disc and Steel Hubs
Wheels Tires and Rims	Rims shall have load and pressure ratings equal to or greater than those of the tires	Yes	YES	Yes	As Stated	Yes	yes
Wheels Tires and Rims	Spacers shall be supplied & installed between rims & drums	Yes	YES	Yes	As Stated	Yes	yes
Engine	Detroit DD13 Wet sleeve engine in-line 6 cylinder engine shall be 12.8 litre minimum: 470 H.P. @1800 RPM/ 1650 lb./ft. torque @ 1100 RPM 2080 RPM governed with 2010 emissions	Yes	YES	No	Navistar A26 475 HP 1700 lb./ft torque @900RPM. Engine is used by Grey County Owen Sound Fowler Construction City of Barrie and many more.	No	ENGINE DIESEL (International A26) EPA 2017 475HP @ 1700 RPM 1700-lb-ft Torque @ 1000 RPM 2100 RPM Governed Speed 475 Peak HP (Max)
Engine	Prior to delivery of truck engine shall be set up using proper electronic diagnostic equipment to specifications of the County of Dufferin	Yes	YES	Yes	As Stated	Yes	yes
Engine	Exhaust system shall be single horizontal / horizontal muffler	Yes	YES	Yes	As Stated	Yes	EXHAUST SYSTEM Single Horizontal After-treatment Device Frame Mounted Right Side Under Cab for Single Short Horizontal Tail Pipe Frame Mounted Right Side Back of Cab
Engine Equipment	Batteries: 3 Alliance absorbed glass mat mode 9A31 Group 31-12 volt batteries shall be supplied 750 CCA min each	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	The battery box shall be mounted under the passenger seat - passenger seat battery box vented to outside of cab.	Yes	YES	Yes	As Stated	Yes	BATTERY BOX Steel 2-3 Battery Capacity Mounted Inside the Cab Under Passenger Seat

Engine Equipment	Battery shut off switch inside cab accessible when driver opens door.	Yes	YES	Yes	As Stated	Yes	BATTERY DISCONNECT SWITCH (Joseph Pollak) for Cab Power Disconnect Switch Disconnects Power to Power Distribution Center (PDC) Does Not Disconnect Charging Circuits Key Operated Cab Mounted
Engine Equipment	Air cleaner Heavy duty dual stage dry type shall be supplied with cab controlled inside/outside air induction. Snow valve / air intake with driver controlled dash switch for winging mode with chromed hood mounted air intake grille.	Yes	YES	Yes	As Stated	Yes	AIR CLEANER Dual Element with Integral Snow Valve and In-Cab Control
Engine Equipment	Alternator shall be DR 12V 200 amp minimum 28-SI Quadra mount pad with remote battery volt sense	Yes	YES	Yes	As Stated	Yes	ALTERNATOR (Delco Remy 28S1) Brush Type 12 Volt 200 Amp Capacity Pad Mount with Remote Sense
Engine Equipment	O.E.M. auxiliary 3' plow wiring package with in dash switch for direct plugging in of snowplow headlights.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	DDC engine mounted fuel filter / fuel water separator with water in fuel indicator. DDC coolant filter engine mounted. Antifreeze to -60F NOAT extended life coolant.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Premium radiator hoses.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Silicone heater hoses.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Block Heater 115 Volt / 1500 watt. Chrome plug to be located under driver's door.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Delco 12V 39MT + HD/DCP starter with thermal protection and integrated magnetic switch.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Cab starting equipment automatic, with engine ECM control.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Air cleaner - dual element with integral snow valve and dash mounted in cab control.	Yes	YES	Yes	As Stated	Yes	yes
Transmission and Clutch	Transmission - Allison 4500 RDS 6 Speed automatic with PTO provision	Yes	YES	Yes	As Stated	Yes	TRANSMISSION AUTOMATIC (Allison 4500 RDS) 5th Generation Controls Wide Ratio 6-Speed with Double Overdrive with PTO Provision Less Retarder Includes Oil Level Sensor On/Off Highway
Transmission and Clutch	Dash mounted push button electronic shift control	Yes	YES	Yes	As Stated	Yes	yes
Transmission and Clutch	Synthetic Transmission Fluid (TES-295 Compliant)	Yes	YES	Yes	As Stated	Yes	yes
Transmission and Clutch	Water to Oil Transmission Cooler Frame Mounted	Yes	YES	Yes	As Stated	Yes	yes
Transmission and Clutch	Transmission Oil Check and Fill with Electronic oil level check	Yes	YES	Yes	As Stated	Yes	yes
Cab	AIR RIDE 110" BBC conventional cab with the following equipment shall be supplied:	Yes	YES	Yes	As Stated	Yes	yes
Cab	Premium level interior trim package: smoky grey vinyl black floor matting with double insulation double in dash cup holder additional cab sidewall insulation automatic self-reset circuit breaker in main dash power distribution box and circuit breaker / fuse in auxiliary power distribution boxes (1) 12 volt power supply in dash padded headliner insulated fire wall and insulated rear cab wall padded door panels with map pockets forward mounted overhead console with dual storage pockets.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Driver seat: National 2000 series mid back air suspension with dual arm rests adjustable head rest and lumbar supports. Cloth material	Yes	YES	Yes	As Stated	Yes	SEAT DRIVER (National 2000) Air Suspension High Back with Integral Headrest Cloth Isolator 1 Chamber Lumbar 2 Position Front Cushion Adjust 3 to +14 Degree Back Angle Adjust
Cab	Passenger seat: National non suspension - cloth material.	Yes	YES	Yes	As Stated	Yes	SEAT PASSENGER (Seats Inc.) Non Suspension High Back Fixed Back Integral Headrest Cloth for use with BATTERIES in Cab
Cab	Windshield - two piece O.E.M. electrically heated windshield. All glass to be O.E.M. tinted.	Yes	YES	Yes	As Stated	No	WINDSHIELD Heated Single Piece
Cab	O.E.M. cowl tray lid at bottom of windshield to stop snow from packing in below wipers.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Dual motorized LH and RH rectangular 16" x 7" stainless steel heated mirrors with heated convex mirrors with separate adjustment.	Yes	YES	Yes	As Stated	No	MIRRORS (2) Aero Pedestal Power Adjust Heated Bright Heads Black Arms 6.5" x 14" Flat Glass Includes 6.5" x 6" Convex Mirrors for 102" Load Width
Cab	Hood Mounted convex mirrors	Yes	YES	Yes	As Stated	Yes	MIRROR CONVEX HOOD MOUNTED (Lang Mekra) (2) Right and Left Side Bright 7.5" Sq.
Cab	Stainless steel exterior sunshade visor with flush mounted L.E.D. clearance / marker lights.	Yes	YES	Yes	As Stated	Yes	SUNSHADE EXTERIOR Bright Finish with Integral Clearance/Marker Lights
Cab	10 additional O.E.M. powered body builder light switches with indicator light 20 amp mounted in dash connected to electrical box mounted in cab behind passenger seat for easy access.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Vehicle speed sensor with additional signal for customer use - located between seats.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Factory installed AM/FM stereo radio with CD player weather band clock auxiliary input and multiple speakers.	Yes	YES	Yes	As Stated	Yes	yes
Cab	2 way radio wiring effects; wiring with 20 amp fuse protection includes ignition wire with 5 amp fuse wire ends heat shrink and 10' coil taped to base harness.	Yes	YES	Yes	As Stated	Yes	yes
Cab	29 channel Cobra CB with weather band and Bluetooth shall be supplied. Multi band AM/FM/WB/CB dual mirror mounted antenna system.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Intermittent windshield wipers with snow type WINTER wiper blades.	Yes	YES	Yes	As Stated	Yes	yes
Cab	GAUGES: Engine oil temperature tractor and trailer air gauges engine oil pressure engine radiator temperature tachometer (electronic) fuel (electronic) voltmeter (electronic) washer fluid level air cleaner restriction. ODOMETER display; kms trip kms engine hours trip hours. WARNING SYSTEM: low fuel low oil pressure high engine coolant temperature low battery voltage (both visual and audible). Ambient Celsius temperature gauge	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Dual stainless steel air horns with snow shield covers shall be supplied. Electric horns	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Expanded ALUMINUM tread cab entry steps.	Yes	YES	Yes	As Stated	Yes	ACCESS CAB Aluminum Self-Cleaning Open and Serrated Design Driver & Passenger Sides Two Steps per Door for use with Day Cab Extended Cab or Sleeper Cab
Miscellaneous	Exterior cab mounted chrome grab bars on each side of cab to assist easy entry and exit shall be supplied	Yes	YES	Yes	As Stated	Yes	GRAB HANDLE EXTERIOR (2) Chrome Towel Bar Type with Anti-Slip Rubber Inserts for Cab Entry Mounted Left and Right Side at B-Pillar
Miscellaneous	O.E.M. air conditioning shall be supplied - integrated heater and defroster with recirculating cab air	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Single rectangular sealed beam headlights with bright chromed bezels	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Wiring and switch for customer furnished fog lights.	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Cab marker light and headlight switch with separate switch and terminals for customer furnished snow plow lights and turn signals.	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Daytime running lights	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Power windows and door locks: driver and passenger side with controls on driver and passenger side. Express down feature.	Yes	YES	Yes	As Stated	Yes	WINDOW POWER (2) and Power Door Locks Left and Right Doors Includes Express Down Feature
Miscellaneous	5 lb. fire extinguisher mounted on floor beside driver's seat and accessible when driver's door opened. First aid kit; triangle roadside stand alone safety markers.	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Backup alarm 97 DBA	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Circuit breakers with manual re-set - replaces all fuses except 5 amp.	Yes	YES	Yes	As Stated	Yes	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators Replaces All Fuses
Fuel Tank	Single 25" tank depth; 300 litre 80 U.S. gallon (minimum) non polished aluminium fuel tank with stainless steel straps - mounted on driver's side.	Yes	YES	Yes	As Stated	Yes	FUEL TANK Top Draw Non-Polished Aluminium 26" Dia 80 US Gal (303L) Mounted Left Side Under Cab
Paint	Cab: RED code# 2303 Base / Clear coat	Yes	YES	Yes	As Stated	Yes	yes
Paint	Chassis: Black Urethane	Yes	YES	Yes	As Stated	Yes	yes
Paint	All paint to be applied over a coat of good quality priming paint 1.5 mil dry film thickness	Yes	YES	Yes	As Stated	Yes	yes
Hood Fender and Grille	Must be one piece fiberglass with forward tilting with hood service hatches for checking engine fluid levels includes enhanced dipstick location so operator does not have to tilt hood to check engine oil.	Yes	YES	Yes	As Stated	Yes	yes
Hood Fender and Grille	Must be provided with 2" fender extensions with extended full width front 1/4 fender mud flaps	Yes	YES	Yes	As Stated	Yes	yes
Hood Fender and Grille	Dash controlled fresh air intake / shut-off for engine with chrome grille	Yes	YES	Yes	As Stated	Yes	GAUGE AIR CLEANER RESTRICTION(Filter-Minder) with Black Bezel Mounted in Instrument Panel
Hood Fender and Grille	Inner skirt under hood sound abatement package to prevent road dirt getting on engine	Yes	YES	Yes	As Stated	Yes	yes
Hood Fender and Grille	Stationary chrome grille with bug screen in behind grille	Yes	YES	Yes	As Stated	Yes	yes
Warranty	Signed manufacturer's factory warranty shall be supplied	Yes	YES	Yes	As Stated	Yes	yes
Warranty	5 year unlimited kms extended transmission warranty.	Yes	YES	Yes	As Stated	Yes	SRV CONTRACT EXT ALLISON XMSN(Allison) To 60-Month/Unlimited Miles/km for Allison 4500 RDS with Utility or Other Vocations (ST08 ST17-ST22 TT01 TT02 TT05 AGD4 SP01 SP03-SP05)
Shop Manuals	Shop repair manuals for the truck and engine shall be supplied	Yes	YES	Yes	As Stated	Yes	yes