

Request for Quotation

TOWNSHIP OF ADELAIDE METCALFE

SPECIFICATIONS AND CONFIRMATION FOR ONE TANDEM TRUCK CHASSIS TO ACCOMMODATE DUMP & SPREADER BODY SNOWPLOW HARNESS WING G.W. 68,000 LB

Deadline for Receipt of Quotations: December 5th, 2022 by 4:00 PM EST

Sealed Quotations, clearly marked "Quote 2022-04-Tandem Truck" must be submitted by mail or courier to:

**Administrator
Township of Adelaide Metcalfe
2340 Egremont Drive
RR 5
Strathroy, Ontario N7G 3H6**

Administrator:

Coutler Cahill
Public Works Manager
Phone: 519-247-3687

REQUIREMENTS FOR QUOTATIONS

Unit/Vehicle Required

- One (1) New 2023 Truck Chassis with Viking-Cives Snowplowing Equipment

Unit/Vehicle Specifications

- The unit offered by the Bidder should meet or exceed the enclosed specifications.
- The Bidder shall indicate opposite each paragraph in the space provided the actual specification of the unit.
- A separate quote is required for each model of truck chassis specified herein.
- The vehicle shall meet or surpass the mandatory requirements of the “Canadian Motor Vehicle Safety Regulations (S.O.R. 70-487) as amended”.

Form of Quotation

- The Bidder shall submit the Form of Quotation attached herein.

Delivery

- The Bidder shall provide the date by which they can deliver the Unit.

Direct Purchase

- The Township is looking for a Unit to purchase. No trade in is being considered with this quote.

Notes on Responding with a Quotation

- Please ensure that your quote:
 - includes the name and contact of the service provider and the point person assigned
 - is submitted by December 5, 2022 by 4:00 p.m. EST.
- In the event you have any questions with respect to the requirements for quotations, please contact Coulter Cahill, Public Works Manager at 519-247-3687.

Evaluation of Quotations

- The Council intends to make a decision on the quotation it prefers on December 12, 2022.
- The Council will determine its preferred quotation based on which quote, if any, in its sole and absolute discretion provides the **best overall value**.
- ***The lowest quote may not necessarily provide the best value and may not be the preferred quotation.***
- The Council reserves the right to reject any or all quotations.
- In determining best value, the Council will consider all of the below:
 - Meeting of the requirements for quotations as identified herein
 - Demonstrated understanding of the Township’s specifications
 - Delivery date
 - Professionalism of quotation

SPECIFICATIONS FOR SET FORWARD AXLE PLOW TRUCK WITH PLOW EQUIPMENT

MAKE	MODEL
MACK	
WESTERN STAR	
KENWORTH	
Other makes comparable to those listed above may also be included.	

1. VEHICLE WEIGHT

(a)	G.V.W. – 68,000 lb minimum	SPECIFY	lb
(b)	The allowable G.V.W. as supplied shall be shown on a metal tag	YES	NO

2. WET SLEEVED ENGINE: Only Engines accepted: 13 L minimum

MAKE	MODEL
Engine Warranty: State engine warranty included	SPECIFY
(a) Number of cylinders - 6	SPECIFY
(b) Gross H.P. – 425 min.	SPECIFY HP @ RPM
(c) Gross Torque – 1,550 lb./ft. torque minimum	SPECIFY lb. ft. @ RPM
(d) Displacement – 13 litre minimum 2010 EPA, SCR	SPECIFY Litres SPECIFY LOCATION OF DFP TANK
(e) Air Cleaner – Heavy Duty-Dual element shall consist of TWO SEPARATE filters, an outer large diameter cleanable/replaceable filter and a smaller dia. inner safety filter with separate retainers for each filter	SPECIFY
(f) The Air intake shall be controllable for Summer/Winter operations inside/outside with in-cab control	YES NO

(g)	Oil Filter – with two spin on full flow oil filters (remote location not acceptable – 2 L capacity)	SPECIFY CAPACITY	Litres	
(h)	Alternator – shall be Delco 12 V 185 amp. min. capacity	CAPACITY	amps	
(i)	Chrome battery Box – shall be fully enclosed , batteries must be protected from moisture, salt and sand to prevent terminal corrosion In-cab battery shut-off switch SPECIFY LOCATION: _____	YES	NO	
		YES	NO	
(j)	Battery – Three 12 volt batteries to be supplied and shall have a total cranking capacity of 3000 CCA minimum	SPECIFY	CCA	
(k)	Batteries are mounted behind front quarter fender on drivers side of the cab with Kalas cables SPECIFY LOCATION: _____	YES	NO	
(l)	For the hydraulic pump, a minimum 4 in. diameter opening through the radiator shall be provided centered with the crankshaft of the engine to allow adequate clearance of the P.T.O. shaft. Crankshaft shall be provided with an adapter for P.T.O. drive	YES	NO	
NOTE:	Where a crankshaft is located low enough to allow the front mounted pump to operate with sufficient clearance below the radiator, the 4 in. opening in the radiator is not required			
(m)	Anti-freeze shall be supplied to -35°C minimum long life	YES	NO	
(n)	High temperature and low-pressure engine protection alarm bell or buzzer device shall be installed	YES	NO	
(o)	All hoses (radiator and heater) shall be silicone with spring-loaded clamps	YES	NO	
(p)	Air Compressor – Meritor/Wabco 318 18.7 CFM SPECIFY TYPE: _____	YES	NO	
(q)	Fuel water separator with heater required SPECIFY MAKE / MODEL: _____	YES	NO	

(r)	The radiator shall have an aluminum core WITH drain tap SPECIFY SIZE: _____	YES	NO
(s)	Fly-wheel housing, aluminum	YES	NO
(t)	Engine, hand-primer pump	YES	NO
(u)	Electronic starter interlock	YES	NO
(v)	Engine exhaust brake with 3 in-dash control / cab settings	YES	NO
(w)	Engine-block heater – 1500 Watt, 120 Volt, chrome receptacle mounted under driver's door	YES	NO
(x)	Poly-V fan belt with tensioner	YES	NO
(z)	12 volt gear-reduction starter	YES	NO
(aa)	Electric engine pre-heat required	YES	NO

3. TRANSMISSION:

(a)	Transmission – shall be an automatic	YES	NO
(b)	Transmission shall be a Allison 4500RDS-P 6 speed automatic with keypad- dash mounted or equivalent	SPECIFY	
(c)	Transmission shall be equipped with transmission cooler and temperature gauge Transmission TCM to be located in cab Accessory wiring for road / ground speed in a cab for body builder to plug into for electronic spreader controller	SPECIFY SPECIFY SPECIFY	
(d)	Transmission shall be filled with synthetic oil	SPECIFY	

4. **CHASSIS:**

(a)	C.A. – 135 in. approximately NOTE: Subject to Viking chassis / equipment layout drawing to SPIF regulations prior to successful chassis bidder ordering chassis	SPECIFY	in	
(b)	23,000 lb. rated SFA front axle with 23,000 lb. suspension Front spring capacity, at the ground – 11,500 lb each	SPECIFY	lb	
(c)	46,000 lb. rear axles with 1710 minimum driveline and half round yokes AND drain plug for differentials Rear Suspension capacity, at the ground – 23,000 lb each	SPECIFY SPECIFY	lb	
(d)	Wheel Base (centre of front axle to centre of rear drive axle) 200 in. approximately	SPECIFY	in	
(e)	Rear Suspension shall be Hendrickson HMX 460 54 VARIRATE with shock absorbers for both axles	YES	NO	
(f)	Front Springs shall be Heavy Duty Multileaf	YES	NO	

5. **CAB:**

(a)	Conventional Cab with a full front tilt hood with service hatch(s) complete with grill separate from hood hinged in front of stationary radiator, with rock guard and bug screen that will not interfere with a front mounted hydraulic pump	YES	NO	
(b)	For sound (Max 80 D.B.A. interior cab noise) and heat protection, deluxe interior insulation and trim panels are required on each door, the headliner, the complete back panel and under the floor mat	YES	NO	
(c)	Heavy duty, high back, dark grey coloured cloth with vinyl trim seats and foam rubber cushions. Suppliers obligation to remove seats if necessary to be recovered	SPECIFY		
(d)	The driver's seat shall be a BOSTRUM, Talladega 915 Model or National 2000 high back with inboard / outboard arm rests, and must have a fully adjustable air ride suspension, with fore/aft leg reach setting, front seat cushion height adjustment for leg support, high back and manually adjustable lumbar supports. Seat belts/retractors, lap and shoulder with cab	SPECIFY		

	mounted shoulder belt adjustable D-ring for driver's and rider's seats		
(e)	The passenger's seat shall be same as above	YES	NO
(f)	Window controls – power window lift with electric door lock, LH/RH. With FRENZEL window in right-hand door only	YES	NO
(g)	Floor matting – heavy duty insulated rubber	YES	NO
(h)	Sun Visors – Dual adjustable (both sides) with driver's side window fold down visor	YES	NO
(i)	Windshield Wipers – Heavy Duty electric type with winter blades and intermittent feature. STATE TYPE: _____	YES	NO
(j)	Windshield Washer – electric wiper mounted with reserve tank, mounted under hood	YES	NO
(k)	Chrome powered heated West Coast mirrors – each side, shall be 6" x 16" in. minimum. Left / right 8" heated convex mirrors mounted on lower arm of West Coast mirrors. Chrome lookdown mirror on upper passenger side of cab	YES YES	NO NO
(l)	The mirrors shall be electrically heated to prevent fogging and ice build up	YES	NO
(m)	Fresh air heater and defroster with 3 speed fan and side window defroster	YES	NO
(n)	Factory installed cab pressurizing air conditioning shall be supplied	YES	NO
(o)	Gauge cluster, air pressure, exhaust pyrometer, engine, transmission, axle oil temperature and manifold pressure gauge	YES	NO
(p)	Metric speedometer with odometer (electronic) and trip-o-meter	YES	NO
(q)	Electronic engine throttle and cruise control shall be supplied	YES	NO
(r)	Electric fuel / DEF gauges shall be supplied	YES	NO

(s)	Voltmeter shall be supplied	YES	NO
(t)	Direct reading coolant temperature gauge shall be supplied	YES	NO
(u)	Direct reading oil pressure gauge shall be supplied complete with an automatic low oil pressure engine kill switch	YES	NO
(v)	Tachometer and engine hour meter shall be supplied	YES	NO
(w)	Air filter restriction DIAL gauge shall be mounted in the dash	YES	NO
(x)	All cab window glass to be O.E.M. tinted Electrically heated O.E.M. windshield	YES YES	NO NO
(y)	Exterior and interior chrome grab bars on each side to assist easy entry and exit Expanded aluminum tread plate cab entry steps WITH boot brush on drivers side	YES YES	NO NO
(z)	Chrome roof mounted air horns – shall be supplied complete with snow shields as well as electric horns	YES YES	NO NO
(aa)	Horizontal muffler with chrome vertical exhaust pipe with turn back outlet to be mounted on the truck frame and not interfere with snow plow equipment	YES	NO
(bb)	The exhaust stack shall have a heat guard for burn protection mounted at the back of cab with chrome elbow	YES	NO
(cc)	Radio AM – FM / WB / clock / BLUETOOTH / USB Input / 3MM Auxiliary Input, PM3 Apple Device Play & Control, Bluetooth for Phone & Music with multiple speakers and antenna shall be supplied Two way radio wiring effect; wiring with 20 amp fuse protection. Includes ignition wire with 5 amp fuse, wire ends heat shrink and routed to center of overhead console in cab	YES YES	NO NO
(dd)	Rubber fender extensions on each front wheel opening. Full width front quarter fenders	YES	NO

(ee)	Under hood insulation for sound abatement - fender wheel-well skirting to prevent road dirt from splashing up on engine and cab entry steps	YES	NO
(ff)	The electrical system shall be supplied with circuit breakers where possible	YES	NO
(gg)	All electrical connections shall be waterproofed with Glyptol or equivalent	YES	NO
(hh)	A O.E.M. in-cab junction box for plugging in all body builders lights shall be mounted in cab SPECIFY LOCATION: _____ O.E.M. auxiliary wiring harness to front of chassis with in-dash headlight switch for plugging in body builders auxiliary plow harness headlights/turn signals	YES YES	NO NO
(ii)	Hood air intake, chrome grille and bars – bright finish	YES	NO
(jj)	Cab-mounted air suspension	YES	NO
(kk)	Cab, conventional (welded steel galvanized shell) with rust-preventative procedures. SPECIFY: _____	YES	NO
(ll)	Interior-mounted fan with guard on right side of cab WITH switch on dash and accessible from driver's seat	YES	NO
(mm)	5 lb. fire extinguisher installed outboard of driver's seat and accessible when driver's door opened. First aid kit mounted at rear inside cab back wall	YES YES	NO NO
(nn)	One coat hook mounted on rear wall, behind driver's seat	YES	NO
(oo)	Dome and map reading lights with self-contained switch	YES	NO
(pp)	Insulated / padded interior door trim panels – grey with map pockets and courtesy lights Insulated cloth headliner and back wall	YES YES	NO NO

(qq)	Engine shut off – key type. Three sets of keys for cab and ignition to be provided at time of delivery to Township.	YE S	N O
(rr)	High-beam indicator light	YE S	N O
(ss)	Hood and fenders, ONE PIECE FORWARD TILTING FIBREGLASS CAMOPLAST Chrome swept back front bumper	YE S YE S	N O N O
(tt)	Identification/clearance lights – bullet type, chrome marker and clearance	YE S	N O
(uu)	Instrument panel to match door colour (grey)	YE S	N O
(vv)	Two (2) in-dash plus driver and passenger side cup holders	YE S	N O
(ww)	PREMIUM interior trim custom features – SPECIFY: _____ —	YE S	N O
(xx)	Low air pressure indicator light and buzzer	YE S	N O
(yy)	Parking brake on indicator light	YE S	N O
(zz)	Power outlets, two in-dash additional 12-Volt supplementary	YE S	N O
(aaa)	Power leads for CB radio, antenna, dual fibreglass mirror mounted	YE S	N O
(bbb)	Overhead console with netting	YE S	N O
(ccc)	Steering column, adjustable tilt / telescope	YE S	N O
(ddd)	18" black steering wheel with soft feel material	YE S	N O
(eee)	Exterior sunvisor – FIBREGLASS colour keyed RED to cab exterior	YE S	N O

(fff)	Auxiliary in-cab line cleanout	YES	NO
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6. FRAME:

(a)	Axle to rear of frame distance to be 65 in. min.	SPECIFY	
(b)	Frame shall be supplied as follows:		
Resisting bending moment (Section Modulus x yield strength) shall be 3,700,000 lb. in. min. Section Modulus shall be 32.0 minimum			
SPECIFY MAKE			
FRAME SIZE			
REINFORCING SIZE			
MATERIAL YIELD STRENGTH			
SECTION MODULUS			
RESISTANCE BENDING MOMENT			
(c)	A MTO cross member shall be installed within 10 in. of rear of cab to transfer snow plow wing push to each frame rail	YES	NO
(d)	Left side of frame shall be kept clear 90 in. forward of centre of rear axles for the sander spinner	YES	NO
(e)	Front frame extension – 18 in. minimum with 1/4" insert	YES	NO
(f)	Towing device – heavy duty rear hooks, frame mounted	YES	NO
(g)	Fuel tank – left-hand side, 302 Litre (80 U.S. gal), 26 in. diameter, non polished aluminum with stainless steel straps	YES	NO

7. STEERING

(a)	Power steering shall be supplied with dual steering boxes	YES	NO
(b)	There shall be a filter for the steering fluid and it shall be serviceable without dismantling any power steering components	SPECIFY	

8. FRONT AXLE (EQUIPMENT & TIRES)

(a)	Shall be 23,000 lb. capacity min.	CAPACITY	lb
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(b)	Shall have oil bath wheel bearings	YES	NO
(c)	Tire brand and type – Michelin – tubeless radial 20-ply XZY3 425/65 R 22.5	YES	NO
(d)	Wheel front disc	YES	NO
(e)	(2) 22.5 x 13.0 Accuride 10 - hole hub piloted aluminum	YES	NO
(f)	Front brakes, size 16.5 x 6 in. min. shall be supplied. S Cam type	SPECIFY TYPE: SIZE mm	
(g)	Dust shields	YES	NO
(h)	Front shock absorbers	YES	NO
(i)	Slack adjusters – automatic	YES	NO
(j)	Springs – multileaf, 11,500 ground load rating	YES	NO
(k)	Spring build up – right-hand side for wing-plow applications	YES	NO
(l)	Synthetic lube for front axle	YES	NO

9. **REAR AXLES (EQUIPMENT & TIRES)**

(a)	Shall be 46,000 lb capacity min.	CAPACITY lb	
(b)	Shall be tandem, dual drive	YES	NO
(c)	Spacing shall be 54 in. between the axle centres	SPREAD	
(d)	Single speed	YES	NO
(e)	Power divider lockout with warning light and buzzer (including in-cab manual air valve)	YES	NO
(f)	Road speed at rated RPM in top gear shall be 105 km/hr approximately	SPECIFY SPEED km/hr	
(g)	State axle ratio for best start ability and grade ability	SPECIFY	
MAKE			
MODEL			
(h)	A driveline analysis shall be provided	YES	NO

(i)	Shall be filled with synthetic oil	YES	NO
(j)	Wheels – hub pilot grey/powder coated steel	YES	NO
(k)	Rims – (8) 22.5 x 8.25 (210 mm) aluminum	YES	NO
(l)	Michelin tires – (8) 11 R 22.5 x 16 ply XDY3	YES	NO
(m)	Shock absorbers – four outboard mounted on forward and axles, each side	YES	NO
(n)	Automatic slack Adjusters – shall be equipped with Rockwell slack adjusters	YES	NO
(o)	Spring brake chambers – 4 double diaphragm type, mechanical spring release (2) mounted each axle	YES	NO
(p)	Synthetic lubrication 75 W – 90	YES	NO
(q)	Transverse torque rods (both axles)	YES	NO
(r)	Locking driver controlled locking differential in forward > rear and rear > rear axle / manual air valve with warning light (both rear axles)	YES	NO
(s)	Rear brakes, size 16.5 x 7 in., min. shall be supplied. S. Cam type with four 30/30 brake chambers	SPECIFY TYPE SIZE Mm	
(t)	Brake chambers on rear drive axle shall not extend beyond rear tires - asphalt paver application	YES	NO

10. ABS AIR BRAKES

(a)	Service Brakes – full air brakes shall be supplied with ABS	YES	NO
(b)	Brakes shall be in accordance with MVS 121 U.S. Standards	YES	NO
(c)	Bendix Westinghouse AD-9 heated air dryer, located inside frame, beside cab, on driver's side	YES	NO
(d)	Air lines – extruded nylon tubing (1/8" & 1/4" lines are single extrusion; 3/8" and larger have polyester reinforced center	YES	NO
(e)	Air brake system, dual	YES	NO
(f)	Air control valves – vendor, Bendix or Wabco switches and valves where possible	YES	NO
(g)	Air reserves, steel	YES	NO

(h)	ABS anti-lock brake system, Bendix without traction control	YES	NO
(i)	Automatic drain valve, Bendix (heated) (1) on system (wet) tank	YES	NO
(j)	Brake control valve system, single valve	YES	NO

11. WHEELS AND TIRES

(a)	All rear rims shall be aluminum with nylon guards with green wheel nut markers	YES	NO
(b)	Aluminum front wheel rim size shall be 22.5 x 13 in. with wheel guards with green wheel nut markers	SPECIFY	
(c)	Dual rear wheels shall be supplied	YES	NO

12. PAINT

(a)	Cab exterior – single colour RED (urethane)	YES	NO
(b)	Cab interior – same as exterior colour	YES	NO
(c)	Chassis running gear – BLACK (urethane)	YES	NO

13. VEHICLE ELECTRONICS

(a)	Circuit breakers / manual reset (main panel) SAE Type III with trip indicators, replaces all fuses except for 5 Amp fuses	YES	NO
	Test exterior lights for PRE-TRIP inspection, will cycle all exterior lamps except back-up lights	YES	NO
	Headlights on with wipers, headlights will automatically turn on if windshield wipers are turned on	YES	NO
	Alarm /parking brake, electric horn sound in repetitive manner when vehicle park brake is 'NOT' set with ignition 'OFF' and any door is opened	YES	NO
	Two powered in-dash light switches	YES	NO
(b)	L.E.D. front turn signals - includes L.E.D. side marker lights on front fenders	YES	NO
	L.E.D. rear red directional lights shall be supplied	YES	NO
(c)	L.E.D. stop lights shall be supplied	YES	NO
(d)	Five L.E.D. identification streamlined cab lights shall be supplied	YES	NO
(e)	Four-way flashers shall be supplied	YES	NO

(f)	L.E.D. back-up lights shall be supplied	YES	NO
(g)	102 DBA back-up alarm with volume control	YES	NO
(h)	All rear and clearance lights shall be LED where available SPECIFY:	YES	NO
(i)	Electronic hand-throttle / cruise control	YES	NO
(j)	Day-time running lights	YES	NO

14. CRANK ADAPTOR

(a)		1350 crankshaft adapter flange for body builder install of front mount pump	YES	NO
(b)		PTO – rear engine – without rear engine power take off	YES	NO

15. WARRANTY AND SERVICE LITERATURE

(a)	Signed Manufacturer's factory warranty shall be supplied	YES	NO
(b)	Shop Manual and Parts Book shall be supplied including Shop Manual for Engine	YES	NO
(c)	The price for an optional five year drive train warranty shall be included separate from quotation price	YES	NO
(d)	A list shall be supplied stating filter and belt numbers, all types of oil required and time frames for regular maintenance work	YES	NO

NOTE:	This specification lists only the major details for a unit, therefore it is the supplier's responsibility to deliver a fully-equipped vehicle with compatible components to provide dependable efficient service.
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16.

NO TRADE-IN	
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17. DELIVERY DATE

(a)		Number of weeks after receipt of order to Viking plant	SPECIFY	weeks
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NOTE:	Complete manufacturer's literature and specifications shall accompany each quotation
	These specification sheets shall be completed and returned with the quotation form
	The unit shall be delivered to the Township Garage at 2330 Egremont Drive
	Licensing shall be done by the Municipality. Annual Inspection Sticker supplied by Dealer

**SPECIFICATION AND CONFIRMATION FOR
COMBINATION DUMP/SANDER 'U' BODY WITH SNOWPLOW & WING EQUIPMENT**

1. SPECIFICATION FOR EQUIPMENT:

	MAKE	MODEL
	VIKING-CIVES	Proline II 1415LW-HT combination dump / spreader 'U' body

2. TRUCK BOX: HI-TENSILE COMBINATION DUMP/SPREADER BODY

MAKE	MODEL

(a)	<p>Side tip 10.5 cubic yard minimum 'U'-Body 13.8 cu. yd. with 10" hardwood sideboards - painted black Outside length: 15' Inside length: 14' Overall width 8' (96") Height of sides from conveyor floor 45" Height of tailgate 53" from conveyor floor Height of front panel approx. 53" Sloped front body wall to be 22.5 degrees top to bottom and free and clear of any type of recesses or protrusions into body of any kind including hoist dog house, bulkheads, etc. allowing for clean material discharge. Adjustable crank material discharge slide gate with handle on driver's side at front of body with calibration sticker.</p>	<p>SPECIFY: _____ cu. yd. SPECIFY: _____ cu. yd. SPECIFY: _____ SPECIFY: _____ SPECIFY: _____ SPECIFY: _____ SPECIFY: _____ SPECIFY: _____</p>
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(b)	Air-tarp with under body air cylinder, dog-legged 1 1/2" x 1 1/2" tubular ALUMINUM tarp arms. SPECIFY: _____	YES	NO	
(c)	Air tailgate with 30/30 air brake-pot chamber each side with adjustable linkage mechanism and Grade 70 spreader chains.	YES	NO	
(d)	In-cab tailgate air switch on floor pedestal beside driver's seat	YES	NO	
(e)	All plate steel used to manufacture the truck box shall be 3/16" high tensile HARDOX 450 strength minimum rated @ 180,000> 203,000 P.S.I. SPECIFY _____ All body welds inside and outside of body to be 100% welded.	YES	NO	
(f)	Adjustable fold-up poly spinner on driver's side with round STAINLESS STEEL mount to chassis frame for windrowing application and grease fittings on shaft. Spinner to have horizontal to frame carrying position.	YES	NO	

(g)	Safeway S70 dripless hydraulic quick couplers	YES	NO	
(h)	Poly lined spinner chute on left-hand roadside with STAINLESS STEEL fold down windrow chute	YES	NO	
(i)	Bosch-Rexroth CS550 electronic spreader controller with two (2) section valves to operate conveyors and spinner. MP Filtri high pressure 10 micron absolute filter assembly. SPECIFY _____	YES	NO	
(j)	Coal chute in tailgate with lever handle to R.H. / curb side of body so operator can see person in his mirror	YES	NO	

(k)	3/16" HARDOX 450 steel cover plate over main floor conveyor	YES	NO	
(l)	Self adjusting main conveyor chain tensioner mid-point of under body long sills with remote grease lines / fittings to front of body - two (2) lines each side. SPECIFY _____	YES	NO	
(m)	Mud flaps – front and rear of tandem axles. Front fenders mounted to chassis – not fenders	YES	NO	
(n)	ALUMINUM fold up body ladder on front driver's side corner of body	YES	NO	
(o)	10" hardwood sideboards – painted black	YES	NO	
(p)	Aluminum chassis-mounted fenders to suit 54" spread	YES	NO	
(q)	Mailhot 'NITRATED' CS130" – 5" – 3 stage approximately 30-ton telescopic front mount body hoist	YES	NO	
(r)	3/16" steel pickled and oil sealed 35 U.S. gallon B.O.C. above chassis frame mounted hydraulic oil reservoir on curb side with sight /temperature gauge, weather proof screw down filler/breather cap with fine mesh screen, provisions for clean out by hand – in tank magnetic trap, oil return port shall have a diffuser to prevent turbulence and foaming of inside the reservoir, ball valve shut-offs.	YES	NO	
(s)	Betts sealed electrical junction box for plug in of all body wiring, box installed above frame @ B.O.C.	YES	NO	
(t)	VCL 9 – 12 function backlight body lighting integrated circuit rocker switches in aluminium housing mounted on swivel control pedestal in cab between seats	YES	NO	
(u)	25,000 LED amber and blue strobe lights back of cab on adjustable light pole with separate in-cab switches	YES	NO	
(v)	Grote Ultra Blue Seal body wiring harness kit	YES	NO	
(w)	Grote LED two-light strobe system – 1 amber and 1 blue – at rear top corners of body. Separate in-cab switches. Spare amber light shipped loose in cab	YES	NO	
(x)	Grote LED rear-light package in rear corner posts for tail/stop/turn and back up lights. Total of 3 lights each side of gate - flush mounted with gate for better visibility.	YES	NO	
(y)	Two Grote 6" #64491 back-up lights at rear of chassis frame – on same in-cab switch	YES	NO	
(z)	Two ALUMINUM MTO upper body plug-in light poles with UPPER L.E.D. REDS (stop/turn/tail lights), one 4" blue strobe light on driver's side and one amber light on curb side. Grote 6" #64491 spot light aimed a ground each side - lights hooked into O.E.M. reverse circuit.	YES	NO	
(aa)	Grote 6" #64491 spinner light, separate in-cab switch	YES	NO	
(bb)	Grote 6" #64491 back of cab conveyor light, separate in-cab switch	YES	NO	
(cc)	Grote corner body round marker light package	YES	NO	

(dd)	Body shot blasted with epoxy 'ZINC' primed and painted IMRON 5000 Elite SS Mack Red Code #PPG: P9189 (baked finish) to match cab and chassis. No substitutes on paint. SPECIFY: _____	YES	NO	
(ee)	H.D. pintle hook plate and frame reinforcing rated @ >30,000 lb. M.G.T.W. with two safety chain loops. NO PINTLE HOOK! Pintle plate assembly painted upgraded BARIL 180 medium gloss black	YES	NO	
(ff)	Install 'D' tow ring on face of plate	YES	NO	
(gg)	Relocate at rear of chassis frame factory-supplied and installed seven-wire electrical plug into face of pintle plate	YES	NO	

3. Viking VCL500HD FULLY DETATCHABLE FRONT PLOW HARNESS:

SPECIFY MODEL: _____

(a)	Fully hydraulic, detachable front plow harness with in-cab tilt plow lift control functions The lifting frame shall be bolted to the push frame and braced to conform with MTO standards One piece 3/8" front steel plate with cut-out of sufficient size to allow cooling of chassis engine radiator	YES	NO	
(b)	Air over hydraulic controls for lock / unlock of harness pins at front driver's corner of harness	YES	NO	
(c)	Stainless steel enclosure for front valve assembly	YES	NO	
(d)	1/2" tail plates, lift yoke, 4" x 10" diameter 'hardened chromed' lift cylinder. Summer MTO storage position for lift yoke	YES	NO	
(e)	2" x 6" diameter 'hardened chromed' tilt cylinder with in-cab featherable control on pedestal beside driver's seat	YES	NO	
(f)	Quick attach pockets with drop-in pins for plow hook-up	YES	NO	
(g)	Halogen headlights with integral turn signals plugged into chassis supplied auxiliary plow wiring harness package	YES	NO	
(h)	Licence plate holders for when harness is on or off	YES	NO	
(i)	Cut OEM front bumper and re-install ends to chassis	YES	NO	
(j)	Harness assembly painted upgraded BARIL 180 medium gloss black. Conspicuity safety reflective tape on wing arms and on rear edge of wing	YES	NO	
(k)	Plow/plow harness/front wing post with wing shall be removable from unit in one stand alone piece	YES	NO	
(l)	Male coupler: The male hinged swing arm and its enclosed rigid mounting bracket shall form an integral assembly and is to be fitted with the vehicle even after the female coupler has been detached	YES	NO	
(m)	Swing arm: the male swing arm to be rotated on the shaft and the hub ends are to be guided by four anti-friction polymer discs in the mounting bracket	YES	NO	

(n)	The swing arm is operated by two (2) double acting 'hardened chromed' hydraulic cylinders with the following specifications: Piston diameter: 2 1/2" Piston rod diameter: 1 1/18" Stroke: 6"	YES YES YES YES	NO NO NO NO	
(o)	These cylinders shall permit the front harness to tilt forward by disengaging the top and engaging the bottom hydraulic operated lock pins. The truck hood can be tilted forward for ease of access to the engine without detaching the front plow harness from the truck	YES	NO	
(p)	Hydraulic locking shall be achieved by two(2) double acting, double ended hydraulic cylinders - one cylinder shall provide upper tilt harness locking and the other cylinder shall perform the lower detach locking function	YES	NO	
(q)	For safety the air over hydraulic lock / unlock cylinder valves shall be mounted at front driver's side corner of harness	YES	NO	
(r)	Two independent in-cab joystick controls for hydraulic plow lift function and the other hydraulic power tilt harness - each with their own separate hydraulic valves	YES	NO	
(s)	Eaton Aeroquip hydraulic hoses with Safeway S70 hydraulic quick couplers with colour coded protective dust caps and plugs for ease of hooking up hoses	YES	NO	
(t)	All structural steel plate used in the plow harness will be 44W complying with CSA.21. Tensile strength will be 65 – 90 KSI. Minimum yield strength will be 44 KSI.	YES	NO	

4. Viking VCL135HSE9 or equivalent ONE WAY PLOW:

(a)	Nine-foot one way plow with push frame, quick attach swivel, 35" intake, 64" discharge, hydraulic tilt moldboard with minimum 4" x 10" 'hardened chromed' tilt cylinder, angle indicator marker rod, in-cab featherable tilt function. Plow to be smooth curved – no breaks or formed SPECIFY: _____	YES	NO	
(b)	Push frame lug welded in line with lug on moldboard for safety check cable application	YES	NO	
(c)	Safety check cable to be installed sleeved in hose	YES	NO	
(d)	Three piece 3/4" CARBIDE cutting edge with CARBIDE nose piece	YES	NO	
(e)	CARBIDE push frame runner shoes	YES	NO	
(f)	1/2" x 12" rubber deflector bolted across top front side of moldboard	YES	NO	
(g)	36" fluorescent orange plow markers on each end of plow	YES	NO	
(h)	Complete plow and assembly to be painted upgraded BARIL 180 Medium Gloss Black	YES	NO	

5. Viking VCL156AHW ALL HYDRAULIC WING AND ASSEMBLY or

equivalent:

	MAKE -	MODEL			
(a)	8" I Beam / 18.4 lb./ft. rating AHW front wing post with 3" x 48" diameter 'hardened chromed' slide cylinder SPECIFY: _____		YES	NO	
(b)	Slide with convoluted rubber/trip hinge and mounting hardware		YES	NO	
(c)	Grote 12" #12020 convex mirror mounted to rear of post on a raised 12" bracket for aid in winging		YES	NO	
(d)	Two (2) Grote 6" #64491 front post wing lights on adjustable/extended bracket with separate in-cab switches. Grote 6" #64491 rear wing light @ front of cab step – in-cab switch.		YES	NO	
(e)	Aeon 5,000 lb. rated auxiliary rubber helper spring kit for right-hand front chassis spring to support wing application		YES	NO	
(f)	AHW 13' fully enclosed panelled wing SPECIFY: _____ Rear wing harness shall not use up any cab to axle space and will allow hoist/hoist saddle and combo spreader body to be mounted close to B.C. The rear 1" thick supporting structure shall extend across both chassis side frame rails and along the right side to provide a distribution of the wing load under heavy duty suspension. Shall have a diagonal pipe brace running back and attaching to the chassis R.H. chassis side rail. MTO x-member. SPECIFY: _____		YES	NO	
(g)	Hydraulic telescopic single push arm with 3" x 23" diameter 'hardened chrome' hydraulic extension cylinder to change the clearing path from 5' to 7' c/w in-cab control and separate hydraulic valve sections. SPECIFY: _____ NOTE: Brake pot chamber in lieu of hydraulic cylinder is not acceptable		YES	NO	
(h)	The telescopic push arm to have a 3 1/2" diameter x 26" dual action 'hardened chrome' wing lift cylinder to apply down pressure on wing		YES	NO	
(i)	HI WEAR 12' wing wear cutting edge – Ni Hard Block blade		YES	NO	
(j)	36" fluorescent orange marker on discharge end with conspicuity safety tape on wing arm and rear edge of wing		YES	NO	
(k)	Wing to have rubber deflector mounted on bottom of backside of frame to minimize stone chipping on wing frame and truck body		YES	NO	
(l)	Wheeled wing stand for ease of taking wing off and on		YES	NO	
(m)	Wing and assembly to be painted upgraded BARIL 180 Medium Gloss Black		YES	NO	

6. HYDRAULICS

(a)	Tandem dry mode Dowty dedicated front mounted pumps with air shift controls on floor pedestal beside driver's seat. Pump 'TUBE' drive shaft to be guarded and be machined and balanced SPECIFY: _____	YES	NO	
(b)	One pump operates all plow and wing functions and second pump controls conveyors, spinner, body hoist	YES	NO	
(c)	All functions are in-cab controlled by air over hydraulic featherable controls on command pedestal. Air dryer lubricator and air protection valve shall be installed in the air control system – in-cab SPECIFY: _____	YES	NO	
(d)	Pump housing and brackets to be painted upgraded BARIL 180 Medium Gloss Black	YES	NO	

7. WARRANTY:

(a)	Warranty coverage will be for a minimum of one year from the date of delivery and the manufacturer's warranty will be included with the specification submission.	YES	NO	
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8. DELIVERY DATE:

(a)	Number of weeks after receipt of chassis	SPECIFY _____	weeks
NOTE:	<p>Complete manufacturer's literature and specifications shall accompany each quotation, along with parts and service manuals.</p> <p>These specification sheets shall be completed and returned with the quotation form.</p> <p>EQUIPMENT INSTALLER TRANSPORT CANADA SAFETY MARK Certification No. SPECIFY # _____</p> <p>Equipment supplier/bidder to be ISO9001 2008 registered. YES:___ NO:___</p> <p>Quality Assurance No. _____</p> <p>Location of equipment manufactured. SPECIFY: _____</p> <p>Location of equipment install. SPECIFY: _____</p> <p>Included copy of bidders insurance enforce with bid. YES: _____ NO: _____</p> <p>Body builder chassis/equipment layout drawing to SPIF regulations must be done before chassis can be ordered by successful truck dealer.</p> <p style="text-align: right;">YES:___ NO:___</p> <p>The unit shall be delivered to the Township Garage at 2330 Egremont Drive.</p>		

TOWNSHIP OF ADELAIDE METCALFE

FORM OF QUOTATION

This quotation for the supply of one (1) New 2023 Production Model Truck chassis, with snowplow, wing and sander box equipment, is submitted by:

in accordance with the accompanying specifications.

I/We hereby propose and agree to supply the complete unit as specified for the following price:

	TRUCK CHASSIS & PLOW EQUIPMENT
QUOTATION PRICE	\$
ADD: 13% HST	\$
ADD: AIR CONDITIONING TAX	\$
TOTAL QUOTATION:	\$

DATED AT _____ this _____ day of _____, 2022.

Witness to Bidder's Signature

Signature of Bidder

BIDDER (Please Print)

SEAL

Address

Address

Postal Code

Telephone Number