



REQUEST FOR TENDER

TO SUPPLY AND DELIVER

**One New 2021 – 68,000 G.V.W Tandem Cab and Chassis
Complete with Viking Combination Dump &
Spreader Bodies (1415 HW), and Viking Snowplow Harness**

BW-RDS-05-2020

DATE & PLACE FOR RECEIVING TENDERS:

Tenders will be received by Dave Kester, Manager of Public Works, until
12 pm on Wednesday, September 22, 2020 at:

**The Municipality of Bluewater
14 Mill Avenue, Box 250
Zurich, Ontario N0M 2T0**

INFORMATION TO BIDDERS

1. DATE AND PLACE FOR RECEIVING TENDERS

Tenders will be received by:

**Dave Kester, Manager of Public Works
Municipality of Bluewater
14 Mill Avenue, PO Box 250
Zurich, Ontario N0M 2T0**

Until: **12 pm local time, Wednesday, September 22, 2020**

For: **The Supply and Delivery of One New 2021 – 68,000 G.V.W Cab and Chassis Complete with Viking Combination Dump & Spreader Bodies (1415 HW), and Viking Snowplow Harness**

2. SUBMISSION OF TENDER

Tenders shall be submitted on the forms provided. Fill in all actual specification sheets or confirmation in the proper space on specification sheets. Tenders shall be delivered in an opaque sealed envelope, clearly marked:

“Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Cab and Chassis Complete with Viking Combination Dump & Spreader Bodies (1415 HW), and Viking Snowplow Harness”

Each bid shall contain the full name of the proponent and be duly signed by a person with authority to bind the corporation.

The proponents shall submit, with the tender document, description literature and detailed technical specifications of the equipment being tendered. Manufacturer’s brochures must be enclosed or forwarded in a separate envelope.

Proponents shall sign and date all addenda and attach copies to the submitted tender.

3. CLARIFICATION

Should a bidder find discrepancies in or omissions from the tender documents, or should there be any doubt as to their meaning, please direct all inquiries or questions to:

Dave Kester, Manager of Public Works
Telephone: (519) 236-4351 ext. 221
Fax: (519) 236-4329
E-mail: publicworks@municipalityofbluewater.ca

Should a correction, explanation, or interpretation be necessary or desirable, a written addendum will be provided on the Municipality of Bluewater website. It is the responsibility of the vendor to ensure that all

addendums are included as part of the tender submission documents at time of tender closing. Addendums, issued during the bidding period, are part of these tender documents.

4. WITHDRAWAL OR QUALIFYING OF TENDERS

A bidder who has already submitted a tender may submit a further tender at any time up to the official closing time. The last tender received shall supersede and invalidate all tenders previously submitted by that bidder for this contract.

A bidder may withdraw their tender at any time up to the official closing time by submitting a letter bearing his signature and seal as in his tender to The Municipality of Bluewater. Submissions must include all completed forms of this document. No emails, telegrams, facsimile or telephone calls will be considered. After the official closing time for receiving of tenders, all tenders received shall be irrevocable.

5. BASIS FOR REJECTION OF TENDER(S)

Tenders may be rejected for one or more of the following reasons:

- a) Bids arriving after the closing time and date as specified in this document
- b) Bids received in a form other than the tender form supplied
- c) Bids not identifying and/or including all issued addendums
- d) Bids not completed in ink or by type
- e) Bids containing any other form of alteration, including but not limited to: strike-out, white-out, etc.
- f) Qualified or conditional bids
- g) Bids not properly signed and sealed

6. RESERVATIONS

The Municipality reserves the right to reject any or all tenders. The lowest or any tender will not necessarily be awarded.

The Municipality of Bluewater shall not, under any circumstance, be responsible for any costs incurred by the Tenderer in the preparation of this Tender.

Without limiting the generality of the foregoing, The Municipality of Bluewater reserves the right, in its sole and absolute discretion, to accept or reject any Tender which in the view of the Municipality is incomplete, obscure, or irregular, which has erasures or corrections in the documents, which contains exceptions and variations, which omits one or more prices or which contains prices the Municipality considers unbalanced.

Criteria which may be used by the Municipality of Bluewater in evaluating tenders and awarding the contract are in the Municipality's sole and absolute discretion and without limiting the generality of the

foregoing, may include one or more of the following, price, total cost to the Municipality, reputation, claims, history of the Tenderer, qualifications and experience of the Tenderer and its personnel, quality of services and personnel proposed by the Tenderer, ability of the Tenderer to ensure continuous availability of qualified and experienced personnel, the Construction Schedule and Plan, the proposed Labour and Equipment, as well as the proposed Supervisory Staff.

Should the Municipality of Bluewater not receive any tender satisfactory to the Municipality in its sole and absolute discretion, the Municipality reserves the right to re-tender the project, or negotiate a contract for the whole or any part of the project with any one or more persons whatsoever, including one or more of the Tenderers.

7. BINDING AGREEMENT

All tenders shall be final and binding on the proponent for a period of sixty (60) days from the closing date and time and may not be altered by any subsequent offerings, discussion, or commitments unless the proponent is requested to do so by the Municipality.

8. PRICES AND BUDGETS

Should it be determined that the changes in the scope of the contract are of sufficient magnitude, then the Municipality shall cancel the quotation process. Then, at its discretion, commence a new process in order to complete the project within the budget available.

9. TENDER AWARD

The Municipality of Bluewater will deliberate the results and a final decision will be made at Municipality of Bluewater Council. The results of this tender will be available after that time.

10. FAILURE TO PERFORM

If the supplier fails to deliver the unit within the time stated in the tender, the Municipality of Bluewater may cancel the order upon twenty-four (24) hours written notice.

The Municipality of Bluewater shall have the full right and power at its discretion, without process of action at law, to re-let the same to any other person, persons, or Company.

GENERAL CONDITIONS

1. SCOPE OF WORK

The Public Works Department is seeking to purchase one new 2021 – 68,000 G.V.W Cab and Chassis Complete with Viking Combination Dump & Spreader Bodies (1415 HW), and Viking Snowplow Harness.

2. VEHICLE COMPLIANCE

The bidder warrants that the product supplied to the Municipality conforms in all respects to the standards set forth by Federal and Provincial agencies and failure to comply with this condition will be considered a breach of contract.

The vehicle shall meet or surpass the mandatory requirements of the "Canadian Motor Vehicle Safety Regulations (S.O.R. 70-487) amended".

3. AUTHORIZED WARRANTY REPAIR

Bidders must submit with their tenders, after sales service and parts support capability. Service must be available to provide repairs with minimum down time. Successful vendors must be on-site to repair the supplied equipment within 24 hours of a warranty call being made.

Operating and Parts & Maintenance Manuals shall be provided with the equipment.

4. OPERATIONAL TRAINING DEMONSTRATION

The Municipality of Bluewater reserves the right to request a demonstration of any proposed truck that a bidder might submit a Tender on at no cost to the Municipality. Bidders will arrange, if necessary, an appropriate time and location.

5. SELECTION OF EQUIPMENT

While the purpose of the specifications is to indicate certain minimum requirements in the way of capacity, strength, construction and other details, their use is not intended to restrict the Municipality in the selection of equipment which may be considered most suitable for the service involved. In other words, even though Tenders are received based on furnishing equipment which may meet the minimum requirements indicated, it is not intended that this alone shall limit the award, but that other factors shall be considered together with any experience the Municipality may or may not have had with the unit being proposed.

6. FUTURE SERVICE & WARRANTY SUPPORT

Due to emergency functions with the Municipality, the successful vendor is to be able to provide future service and warranty support within one hour of receiving a request for support during regular business hours.

FORM OF TENDER

All equipment furnished shall be new and the manufacturer’s current production model and shall conform to the current Federal and Province of Ontario safety standards.

The following are minimum requirements to supply and deliver one new 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness.

Any deviations from these specifications which, in the opinion of the Municipality, do not affect the overall requirements of the unit may be considered. Specifications Requirements should be considered as a minimum. Please provide the requirement information and indicate by (✓) if available in tendered equipment, and if not, please provide information on what is included in the tender price.

SPECIFICATIONS:

1	MAKE:	MODEL:	SPECIFY:	
	WESTERN STAR	4700SB SBA 6x4	MAKE:	
	INTERNATIONAL	7600 SBA 6x4	MODEL:	
	FREIGHTLINER	M114SD		
(Other models comparable to those listed above may also be included – subject to Municipality approval before time of tender closing).				
2	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:	
	(c) Chassis Weight - 14,300 lb. min. equipped as per these specs.	SPECIFY:		lb.
3	ENGINE: In Line wet sleeved 6 cylinder.			
	MAKE:	MODEL:	SPECIFY:	
	Detroit Diesel	DD13	MAKE:	
	Navistar	N13	MODEL:	
	Paccar	MX-13		
	(a) Engine Warranty: State engine warranty included.	SPECIFY:		
	(b) Number of cylinders.	SPECIFY:		
	(c) Gross H.P. – 450 minimum .	SPECIFY:		HP@ RPM
	(d) Engine compression (Jacob) brake to be included with 3 in dash settings for operator usage.	YES:	NO:	
	(e) Gross Torque – 1,650 lb./ft. min.	SPECIFY:		lb. ft.@ RPM
	(f) A three-stage integrated Jacobs® engine brake	YES:	NO:	
	(g) Net Torque.	SPECIFY:		lb. ft.@ RPM
	(h) Engine shall be programmed to Municipality specifications.	SPECIFY:		
	(i) Displacement – 12.8 litre minimum.	SPECIFY:		
(j) Air Cleaner – Heavy Duty element shall consist of a replaceable type filter.	SPECIFY:			
(k) The Air intake shall be controllable for summer/winter operations, manual slide control preferred. There shall be an inside/outside chromed air intake with snow door.	YES:	NO:		

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(l) Oil Filter – full flow type mounted on the engine (remote location not acceptable) – 2L capacity.	CAPACITY:	litres
(m) Alternator – shall be Delco 33SI brushless 180 amps minimum capacity.	CAPACITY:	amps
(n) Batteries to be located in cab under non-air ride passenger seat with remote jump start battery terminals located under passenger side of cab door in the valance panel. Battery shut off switch in cab out board of driver's seat, accessible when driver's door opened.	YES:	NO:
(o) Battery – Three 12-volt batteries to be supplied and shall have a total cranking capacity of 2100 CCA minimum.	SPECIFY:	CCA
(p) Batteries shall be mounted in such a way as to not interfere with body builder equipment and close enough in the cab to prevent voltage loss to ECM.	YES:	NO:
(q) For the hydraulic pump, the crankshaft of the engine shall be designed to allow adequate clearance of the P.T.O. shaft. Crankshaft shall be provided with an adapter for front mount P.T.O./pump drive.	YES:	NO:
NOTE: SPECIFY whether or not the radiator has an O.E.M. cut out for front mount pump application or pump shaft goes under the radiator: SPECIFY:		
(r) Anti-freeze shall be supplied to – 35°C.	YES:	NO:
(s) Fan clutch – shall be an air-controlled model type.	YES:	NO:
(t) High temperature and low oil pressure engine protection alarm bell or buzzer device shall be installed.	YES:	NO:
(u) All coolant hoses shall be silicone type.	YES:	NO:
(v) Air Compressor – BW Model BA-921 19.0 CFM. or equivalent TYPE:	YES:	NO:
(w) Coolant filter/conditioner shall be installed.	YES:	NO:
(x) The radiator shall have an aluminum core, and specify Warranty on radiator SPECIFY SIZE and WARRANTY:	YES:	NO:
(y) Engine shall be programmed that engine idle time does not exceed 10 minutes.	YES:	NO:
(z) Engine shall be equipped with Davco Fuel Pro 482 with electric pre-heater feature.	YES:	NO:
(aa) Horizontal exhaust OR horizontal exhaust with chromed vertical stack and 90-degree outlet with stainless or chrome mounted exhaust shield on curb side. After treatment SCR device frame mounted on outside of right-hand frame rail under cab. Exhaust / air tanks must not interfere with installation of snowplow equipment.	SPECIFY EXHAUST TYPE:	
(bb) Fresh air intake snow shield shall be provided.	YES:	NO:
TRANSMISSION:		
(a) Transmission Shall be Full Automatic Allison 4500 RDS 6-speed transmission with deep lo reduction, PTO provision, Push button selector, this option shall include applicable speed sensor and a TCM shall be mounted in cab.	YES:	NO:
(b) Transmission shall be equipped with oil cooler.	SPECIFY:	
(c) Transmission shall be filled with synthetic oil.	SPECIFY:	
(d) The flywheel supplied shall be the heavy-duty iron type.	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

4	(e) The truck ground speed shall be obtained by the use of a speed sensor attached to the truck transmission for sander application units.	YES:	NO:
	(f) The drive shafts shall have 2 halves on the u-joint in the event of towing truck so the drive shaft can be removed easily including half round caps.	YES:	NO:
5	CHASSIS:		
	(a) Cab to rear axle. – 141" clear 'effective' C.A. required. Viking Cives to do SPIF chassis layout before successful truck bidder orders cab and chassis.	SPECIFY:	inches
	(b) Front axle spring capacity, at the ground – 22,000 lbs. minimum with 23,000 lbs. suspension with shock absorbers.	SPECIFY:	lb.
	(c) Rear Suspension capacity, at the ground – 46,000 lbs. minimum.	SPECIFY:	lb.
	(d) Wheelbase to be 210 inches approximately.	SPECIFY:	inches
	(e) Rear Suspension shall be Hendrickson Haulmax rated at 46,000lbs. or equivalent with shock absorbers on both axles.	YES:	NO:
	(f) Front Springs shall be Heavy Duty Multi leaf or Flat leaf design.	SPECIFY:	
	CAB:		
	(a) Conventional cab with a full front tilt hood, (complete with chrome grill separate from hood, fixed in front of rad, with rock guard and bug screen) that will not interfere with a front mounted P.T.O. Dual Hydraulic Pump. Butterfly side hood openings on each side are required to check all fluid levels when the hood is unable to be lifted during winter operations. Cowl tray to be included to prevent the build-up of snow. Chrome grill and chrome headlight surround.	YES:	NO:
	(b) For sound (Max 80 D.B.A. Interior Cab noise) and heat protection, deluxe GRAY interior, double heavy-duty floor matting insulation. Padded/insulated cloth door trim panels with map pockets. Cloth headliner and complete back wall panel to be padded and insulated. Overhead console with storage pockets / netting and map lights to be provided.	YES:	NO:
	(c) The grey cloth driver's seat shall be an elite high back air suspension driver seat with heat, 3 chamber air lumbar, integrated cushion extension, forward and rear cushion tilt and adjustable shock.	SPECIFY:	
	(d) The passenger's seat shall be high back grey cloth/fully padded and of heavy-duty solid mount construction for install of batteries.	YES:	NO:
	(e) Passenger side door window shall be raised and lowered electrically by a remote switch located within easy reach of the driver and passenger. Driver side window shall be raised and lowered electrically by a remote switch located within easy reach of the driver.	YES:	NO:
	(f) Floor mats – rubber for driver and passenger sides.	YES:	NO:
	(g) Sun Visors – dual adjustable as well as driver's left side adjustable for driver's door side window. Three (3) in total.	YES:	NO:
	(h) Windshield Wipers – Heavy Duty electric type with intermittent feature. Wiper blades shall be winter/snow type.	YES:	NO:
	(i) Electric horn.	YES:	NO:
	(j) Powered remote West Coast mirrors with power switches on driver's side for both mirrors. West Coast and convex mirrors shall be electrically heated to prevent fogging and ice build-up. Chrome look down mirror on R.H. upper side of cab. LED chrome mirror mounted turn signal lamps in addition to standard.	YES:	NO:
	(k) O.E.M. tinted windows shall be included.	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

6	(l) Fresh air heater and defroster with minimum 3 speed fan and side windows defroster.	YES:	NO:
	(m) O.E.M. factory-installed, cab pressurizing air conditioning shall be supplied.	YES	NO:
	(n) Doors and ignition to be keyed the same with 3 sets of keys.	YES:	NO:
	(o) Door storage pockets shall be provided.	YES:	NO:
	(p) Power door locks will be supplied.	YES:	NO:
	(q) Cab will be equipped with air ride suspension.	YES:	NO:
	(r) Right and left under cab lower and intermediate footsteps shall be supplied. All footsteps to be constructed of aluminum or stainless steel, one box heat shield shall be aluminum checker plate and Drivers side footsteps will be full length of the fuel tank SPECIFY:	YES:	NO:
	(s) Air filter restriction gauge (dial or electronic) shall be mounted in the dash. SPECIFY:	YES:	NO:
	(t) Exterior aerodynamic sunshade (sun visor) painted to match cab colour.	YES:	NO:
	(u) Chrome grab bars on outside of cab to assist easy entry and exit for driver and passenger. Grab bars inside cab for entry and exit of cab.	YES:	NO:
	(v) Air Horns – chrome roof mounted and shall be supplied complete with snow shields.	YES:	NO:
	(w) AM/FM Stereo clock radio <i>with</i> Bluetooth and microphone, front USB port, front and rear auxiliary inputs complete with 4 speakers in cab.	YES:	NO:
	(x) Rubber fender extensions on each front wheel opening to help check road spray shall be supplied. The extension will cover the entire fender with no voids.	YES:	NO:
	(y) Inner fender splashguards that completely cover the engine compartment from overspray from the front wheels. Full width extension/mud flaps that extend from the front 1/4 fenders to within at least 9 inches of the road surface, to be entire width of the front fender to cover under cab fuel tank/battery box/DPF.	YES:	NO:
	(z) The electrical system shall be supplied with circuit breakers where possible.	YES:	NO:
	(aa) All electrical connections shall be waterproofed with Glyptol or equivalent.	YES:	NO:
	(bb) An O.E.M. electrical junction box for plug and go of all body lights shall be mounted in cab back of driver's seat or rear centre of back wall. SPECIFY LOCATION:	YES:	NO:
	(cc) Chromed receptacle for 120 volt/1500 watt engine block heater to be supplied, mounted under cab on driver's side.	YES:	NO:
	(dd) Three (3) triangular reflectors to be mounted in cab after control floor pedestals and plow related hardware is installed.	YES:	NO:
	(ee) Dry Type 'ABC' 5 lb. fire extinguisher mounted in cab on floor beside driver's seat – accessible when door opened. <i>Extinguisher must meet Class 3-A: 40-BC rating.</i>	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(ff) Twelve (12) auxiliary <u>powered</u> in-dash switches for plow/sander equipment lighting. A terminal panel or builder's junction point relay board shall be incorporated into the wiring system to access wiring circuits to add additional lighting for the body installation. <i>Body builder's module shall be inside of cab only.</i>	YES:	NO:				
(gg) Auxiliary fan for windshield defrosting, to be mounted on top of console control pedestal with low/high speed settings.	YES:	NO:				
(hh) Electronic cruise control - in dash or on steering wheel. SPECIFY LOCATION OF CONTROL:	YES:	NO:				
(ii) Tinted door glass on left- and right-hand side windows.	YES:	NO:				
(jj) Lower right-hand door window with Fresnel lens.	YES:	NO:				
(kk) Molded plastic door panel with aluminum kick plate on driver's lower door.	YES:	NO:				
(ll) Two (2) in-dash cup holders accessible to the driver.	YES:	NO:				
(mm) Power source cigar type receptacle.	YES:	NO:				
(nn) 2-Way radio wiring effects; wiring with 20-amp fuse protection, including ignition wire with 5-amp fuse, wire ends heat shrink and routed to centre of header console in cab.	YES:	NO:				
(oo) Adjustable tilt and telescoping 18" steering column.	YES:	NO:				
(pp) An aluminum or stainless valance panel shall extend from the bottom of the cab to just above the fuel tank. SPECIFY:	YES:	NO:				
(qq) Cab gauges shall include but not limited to: tachometer, speedometer, oil pressure, engine temperature, fuel, hour meter, amp/volt meter, dual air pressure, and air cleaner restriction indicator and transmission temperature gauge.	YES:	NO:				
(rr) Rear tinted cab window to be supplied.	YES:	NO:				
(ss) 40 channel CB and antenna to be supplied and installed.	YES:	NO:				
(tt) Automatic on/off, engine compartment hood activated work light with manual override.	YES:	NO:				
(uu) One Piece tinted curved bonded windshield with heated wiper blade park areas.	YES:	NO:				
7 FRAME:						
(a) Axle to rear of frame distance to be 65 in. min.	SPECIFY:					
(b) Frame shall be supplied as follows:						
	MAKE:	FRAME:	REINFORCING:	MATERIAL YIELD STRENGTH:	SECTION MODULUS:	RESISTANCE BENDING MOMENT
	WESTERN STAR	14.12 x 3.06 x.312	Full Length Double Channel	120,000 P.S.I.	30.0	3,300,000
	NAVISTAR	10.125" x 3.580" x 0.312"	10.813" x 3.892" x 0.312"	120,000 P.S.I.	31.10	3,421,000
Resisting bending moment (Section Modulus x yield strength) shall be 3,100,000 lb. in. min. Section Modulus shall be 28.0 minimum.						
Specify: Make:						
Frame Size:						
Reinforcing Size:						

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

	Material Yield Strength:		
	Section Modulus:		
	Resistance Bending Moment:		
	(c) Left side of frame shall be kept clear 90 in. forward of centre of 1 st drive axle for the sander spinner.	YES:	NO:
	(d) Full length 'C' channel frame reinforcing with 24" double front frame extensions with 1/4" insert.	YES:	NO:
	(e) Argent grey swept back full width bumper.	YES:	NO:
	(f) O.E.M. heavy duty snowplow cross member within 10" B.O.C. for winging function support.	YES:	NO:
8	STEERING:		
	(a) Dual power steering boxes shall be supplied OR TRW THP-60 power steering with RCH45 auxiliary gear. SPECIFY:	YES:	NO:
	(b) There shall be a filter for the steering fluid and it shall be serviceable without dismantling any power steering components.	SPECIFY:	
9	AXLES:		
	(a) SET Back front axle shall be 22,000 lb. capacity minimum with 23,000 lb. suspension and to include front shock absorbers and synthetic oil.	CAPACITY:	lb.
	(b) Rear axle and suspension shall be 46,000 lb. capacity min.	CAPACITY:	lb.
	(c) Rear axle shall be tandem, dual drive.	YES:	NO:
	(d) Rear axle spacing shall be 52 in. or 54 in. (please specify) between the axle centres.	SPREAD:	inches
	(e) Rear axle shall be single speed.	YES:	NO:
	(f) Rear axle shall have a driver-controlled power divider lockout for both axles - forward > rear and rear > rear axle.	YES:	NO:
	(g) Front axle shall be SET-BACK and have Oil Bath wheel bearings.	YES:	NO:
	(h) Road speed at rated RPM in top gear shall be 105 km/hr.	YES:	NO:
	(i) State axle ratio for best performance and fuel economy for snow plowing operations. Rear axle ratio of 3.91 is desired, Municipality to be consulted with BEFORE CHASSIS ARE ORDERED.	SPECIFY:	
	(j) Following is a list of approved axles:	MAKE	MODEL
	MAKE: Meritor		
	MODEL: RT-46-164P		
	Dana		DD405/RD405
	(k) A driveline analysis shall be provided WITH bid submission - to include start off, grade ability and shift ranges.	YES:	NO:
	(l) Rear axles shall be filled with synthetic oil.	YES:	NO:
	(m) Driver controlled locking differential in the rear axle.	YES:	NO:
	(n) Rear shock absorbers to be installed on both axles.	YES:	NO:
10	BRAKES:		
	(a) Service Brakes - full air brakes shall be supplied with ABS. All axles to be supplied with brake dust shields.	YES:	NO:
	(b) Front brakes, size 16.5 x 6 in. min. shall be supplied. S cam type.	SPECIFY TYPE:	SIZE mm.

	(c) Rear brakes, size 16.5 x 8.62 in. min. shall be supplied. S cam type.	SPECIFY TYPE:	
		SIZE	mm.
	(d) Brakes shall be in accordance with MVS 121 U.S. Standards.	YES:	NO:
	(e) Bendix Westinghouse AD-9 (or equivalent) air dryer to be supplied.	YES:	NO:
		SPECIFY:	
	(f) Brake chambers on rear drive axle shall not extend beyond rear tires so truck can be dumped into shoulder or asphalt spreader. 'S' cam brackets shall be Meritor P253299Q6257 and Meritor P253299P6256.	YES:	NO:
	(g) Slack Adjusters - shall be equipped with Haldex automatic slack adjusters.	YES:	NO:
	(h) Suspended accelerator / brake	YES:	NO:
11	WHEELS AND TIRES:		
	(a) Front Aluminum rims shall be stud hub piloted and hubs shall have a load rating of 13,000 lbs. each. 10 stud x 285.75 mm B.C. Front wheels to be equipped with stainless steel centre caps and stainless nut covers. Front wheels shall be Accuride Accu-Flange™ wheels Specify rim type, Accuride #, load rating:	YES:	NO:
	(b) Rear rims shall be powder coated grey (4 wheels) on the inside Accuride 28828 wheels – NO EXCEPTIONS and Accuride polished wheels (4 wheels) on the outside Accuride # 29644.	SPECIFY:	
	(c) Front Wheel rim size shall be 22.5"x13".	SPECIFY:	
	(d) Front tire size shall be 445/65R x 22.5 - 20 ply steel belted radials.	SPECIFY:	
	(e) Front tires shall be Michelin XZY3 (Michelin part number 83691).	SPECIFY:	
	(f) Dual rear wheels shall be supplied.	YES:	NO:
	(g) The four (4) inside rear wheel rims size shall be 22.5 x 8.25 in, 10-stud hub piloted, Flanged Nut. Accuride part number is 28828. The four (4) outside polished aluminum wheels shall be Accuride part number 29644.	SPECIFY:	
	(h) Rear tires shall be Michelin XDS2 11R22.5 radials. The Michelin part number is 05359, no exceptions permitted.	SPECIFY:	
	(i) One (1) spare tire Michelin XDS2 11R22.5 mounted on rear hub piloted grey rim (as above ((h)) shall be supplied. Michelin part number 05359, no exceptions permitted.	SPECIFY:	
	(j) One (1) spare front tire Michelin XZY 445/65R x 22.5 mounted on Aluminum rim (as above ((a)) shall be supplied.	SPECIFY:	
12	PAINT:		
	(a) Paint shall be <i>metallic red clear coat</i> . Colour will be selected at time of order.	YES:	NO:

13	FUEL / UREA TANK:		
	(a) 100 U.S. Gallon / 378.5 L fuel capacity 25" diameter 'non polished' aluminum fuel tank with stainless steel straps is required on driver's side. Tank shall not extend more than 8 inches beyond rear of cab. This area may be needed for spinner modifications. Minimum 9 U.S. gallon / 36L polished aluminum DEF tank ahead of fuel tank. Specify tank B.O. C. _____". Check with Viking Cives for possible interference with manufacturer standard fuel tank system. Schematic diagram showing layout of fuel tank(s) shall accompany this tender document.	YES:	NO:
		Specify diameter for fuel tank and gallons/litres:	
Specify size and location of DEF tank and gallons/litres:			
	(b) Stainless steel straps shall be used for mounting and supporting of fuel tank.	YES:	NO:
14	LIGHTS & WARNING DEVICES:		
	(a) Two, fender mounted, 4 in. diameter amber directional lights, facing front.	YES:	NO:
	(b) Rear red directional lights shall be supplied.	YES:	NO:
	(c) Stop lights shall be supplied.	YES:	NO:
	(d) Five identification streamlined cab lights shall be supplied.	YES:	NO:
	(e) Four-way flashers shall be supplied.	YES:	NO:
	(f) Back-up lights shall be supplied.	YES:	NO:
	(g) Back-up alarm with a minimum 97 dB rating.	YES:	NO:
	(h) All rear stop / tail/ turn and clearance lights shall be LED .	YES:	NO:
		SPECIFY:	
(i) O.E.M. plow wiring harness provision to front of chassis must be made so auxiliary front plow lights can be plugged directly into the truck. No splicing into factory wiring for plow equipment will be permitted. O.E.M. in-cab dash switch for auxiliary plow lights.	YES:	NO:	
	SPECIFY:		
(j) Electrical system shall have a master cut-off switch located just inside the cab beside the driver's seat.	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 for trucks <i>including</i> Shop Manual for Engine. All manuals & books to be in book (paper) format. One full set of each is required in paperback form.	YES:	NO:
	(c) Parts Book copy shall also be supplied in digital format.	YES:	NO:
	(d) 7-Year/250,000 mile vocational internal protection extended engine warranty shall be included. No deductible coverage required. Proof of engine warranty from manufacturer must be supplied. This warranty will also cover all genuine engine parts, after treatment support system, turbo, sensors on engine and particulate filter.	YES:	NO:
	(e) Mobile service vehicle and mechanic is available for emergency repairs.	YES:	NO:
	(f) Engine manufacturer software that can be loaded on Municipality of Bluewater's laptop will be provided that includes engine diagnosis and reporting features. Reporting features will include but not limited to: fuel economy, average vehicle speed, idle time, over rev limits, etc. This will include installation on Municipality's laptop and training to Municipality's mechanic staff for minimum of 1/2 day. Training may take place on our premises or site selected by dealer.	SPECIFY (attach separate sheet if needed):	

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

	(g) A late warranty registration for truck and engine shall be supplied after all sander and plow equipment has been installed on these cab and chassis. Municipality will notify truck dealer at time of in-service date of truck(s).	YES:	NO:
	(h) A list shall be supplied stating filter and belt numbers, all types of oils required and time frames for regular maintenance work.	YES:	NO:
	NOTE: This specification lists only the major details of a unit; therefore, it is the supplier's responsibility to deliver a fully equipped vehicle with compatible components to provide dependable, efficient service.		
16	TRADE-IN:	No Trade-In	
17	NOTES:		
	(a) Complete Manufacturer's Literature and Specifications shall accompany each quotation.		
	(b) These Specifications Sheets shall be completed and returned with the quotation form.		
	(c) 1 (one) unit shall be delivered to the Municipality of Bluewater Roads department, 38594 Mill Road, Varna. Delivery fees to be included in pricing of the truck.		
	(d) Truck will come plated with license sticker. Vehicle shall have Annual Safety Inspection Certificate and sticker on delivery.	YES:	NO:
	(e) A qualified technician shall provide a minimum of 3 hours of training to Municipal employees when unit is delivered.	YES:	NO:
18	SPECIAL INSTRUCTIONS:		
	When this truck is being built, all components and accessories must be placed so they will not interfere with each other and situated with the operator's safety and comfort in mind.	SPECIFY:	
20	DELIVERY DATE:		
	Number of weeks after receipt of order:	SPECIFY:	

(21) - SNOW PLOW EQUIPMENT:

9' ONE WAY SNOW PLOW

VIKING 135 HSE 9

SPECIFY:

MODEL:

21	(a) This one-way snowplow shall conform with the provisions of M.T.O. standards ES-414, except that the dimensions of this specifications shall prevail when the two contradict.	YES:	NO:
	(b) The plow shall operate effectively and without modification with the M.T.O. snowplow truck harness ES-401.	YES:	NO:
	(c) The weight of the plow shall range from 2,100 to 2,300 lbs. and shall be constructed to prevent the accumulation of water in any area.	YES:	NO:
	(d) The plow shall have a hood extending 18" past the vertical centre line, in normal operating positions.	YES:	NO:
	(e) All ribs shall be of one-piece construction 100% welded both sides to the moldboard. The top edge of the moldboard shall be welded 100% to the ribs. The top rail of the moldboard shall be manufactured of 2 1/2" X 2 1/2" angle iron and welded securely to the ribs and moldboard with a continuous bead. All other welds must also be 100%.	YES:	NO:
	(f) The thickness of the moldboard and hood shall be 3/16 inches thick.	SPECIFY:	
	(g) The moldboard shall be pivoted to allow tilting in different positions.	YES:	NO:
	(h) The moldboard brace rod shall be adjustable for plow angles of 45-degree, 50 degree and 55 degree.	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(i) Moldboard adjustment to be done with a 4" x 10" hardened chromed hydraulic cylinder with featherable control from inside the cab, and secured with a pin on the brace rod. A moldboard angle rod indicator gauge is to be positioned on the one way so it is visible to the operator from the cab.	YES:	NO:
(j) Male end of adjusting brace assembly to be solid steel.	YES:	NO:
(k) Both male and female ends shall have 3/4" mounting pins.	YES:	NO:
(l) The female end shall be at the top to prevent the accumulation of water.	YES:	NO:
(m) Holes in drive bars for push frame shall be 1 1/4" diameter.	YES:	NO:
(n) The distance from the centerline of the holes to the end of the drive bar shall be 1 1/2".	YES:	NO:
(o) The height of the moldboard at the top of curve shall be as follows: Intake: 35" min. Discharge: 64" min.	SPECIFY:	
(p) The overall length shall be 14'- 4" minimum. Plow shall clear 9'3" @ 37.	SPECIFY:	
(q) The plow shall be fitted with two shoes as per M.T.O. ES-508. Shoes shall be Carbide Valley Blades model: V550-3 and V550-2 Respectively.	YES:	NO:
(r) There shall be eight vertical ribs, 3 1/2" high by 3/8" thick. Minimum weld between the moldboard and rib shall be 100% weld each side.	YES:	NO:
(s) The bottom rail on the moldboard shall be 5" X 3" X 1/2" angle below with a 3" X 2" X 3/8" gussets shall be welded between the two legs of the bottom angle, between each bolt hole, except for the two sets of end holes and between two holes in the middle of the moldboard. The moldboard shall be continuously welded to the bottom rails.	YES:	NO:
(t) The moldboard shall be designed for use with CARBIDE 7/8" cutting edge and CARBIDE nosepiece. The cutting edge and nosepiece shall be supplied with carbide edges and carbide nose piece. There shall be a minimum of 3 shoes on the one-way edge.	YES:	NO:
(u) Moldboard shall have a total bearing area (pin dia. times web thickness times number of webs involved) or 4 1/2" square inches minimum at the point where the drive links attach.	YES:	NO:
(v) Trip link safety mechanism shall be incorporated the blade mechanism must return to the normal plowing position automatically. Trip springs must be secured with lock nuts.	YES:	NO:
(w) Two separate Grade 70 lift chains shall be used and these shall pick up on the drive frame at points approximately 48" apart.	YES:	NO:
(x) These lift chains shall be 1/2" dia. Grade 70 minimum.	SPECIFY:	
(y) The height of the shoes shall be adjustable as shown on M.T.O. ES- 521. Height adjustable one-way snowplow shoe holder.	YES:	NO:
(z) The shoes shall oscillate.	YES:	NO:
(aa) The moldboard shall be formed in the shape of a smooth curve; plows w/breaks are not acceptable.	YES:	NO:
(bb) The horizontal distance from the discharge end of the plow blade to the discharge end of the moldboard shall be 24" minimum.	YES:	NO:
(cc) A sturdy eye 1/2" thickness shall be provided at the centre of gravity for handling of the moldboard.	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(dd) The design and quality shall meet M.T.O. requirements.	YES:	NO:
(ee) The complete snowplow unit shall be Imron BLACK as per section 36 of this quotation.	YES:	NO:
(ff) A spare parts manual shall be supplied.	YES:	NO:
(gg) A signed manufacturer's warranty shall be supplied.	YES:	NO:
(hh) Top of front plow intake there will be a forward facilities 3M Reflective green star decal and stainless mounting bracket.	YES:	NO:
(ii) A small double wide pinned on foot step to be installed on the one-way plow frame to assist the operator stepping up to the hood.	YES:	NO:
(jj) 1/2" x 12" rubber deflector shall be installed by bolting across complete top length of moldboard. Metal strapping shall be placed every 18 inches along the entire length of the deflector to keep the deflector from flapping while driving down the road.	YES:	NO:
(kk) 36" ORANGE plow marker on each end of plow. Marker shall have a cable on inside of marker.	YES:	NO:
(ll) Standard push frame swivel for plow hook up to 3-hole lugs on plow harness.	YES:	NO:
(mm) One-way Plow shall be outfitted with Safety Chain.	YES:	NO:

(22) - SPECIFICATIONS FOR SNOW PLOW EQUIPMENT:

12' STANDARD WING or 13' O.A.L. STANDARD WING if required

22	(a) Viking VCL 144 WHD 12' standard wing or equivalent in compliance with the following specification: MAKE: MODEL:	YES:	NO:
	(b) The inside height of the wing shall be 29" minimum.	SPECIFY:	
	(c) The outside height of the wing shall be 39" minimum.	SPECIFY:	
	(d) Overall length of the wing shall be 12 feet.	SPECIFY:	
	(e) The thickness of the moldboard shall be 10 U.S.S. Ga. (.1345), minimum.	SPECIFY:	
	(f) Two drive ribs for connecting the wing brace shall be provided.	YES:	NO:
	(g) The drive ribs shall be located approximately 7'2" and 8'8" from the nose end of the wing.	YES:	NO:
	(h) The plate for mounting the wing to the wing post shall be 1" thick. The mounting hole shall be far enough from the edge of the plate to avoid failure in this area.	SPECIFY:	
	(i) Lower wing angle shall be 6" X 4" X 3/4".	YES:	NO:
	(j) The mounting of the nose end of the wing to the wing post shall be by means of a hinge and rectangle spring, to allow tipping over the wing.	YES:	NO:
	(k) Two adjustable wing braces shall be supplied.	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(l) The upper brace shall be of a stock release type, including a spring retraction. The spring shall provide adequate stability of the wing in normal operating conditions, and shall retract the wing from tip-over position.	YES:	NO:
(m) The distance between the center of the mounting holes of the wing braces shall be as follows: Upper brace – Extended 90" C.C. Collapsed 60" C.C. Extended distances shall be measured with spring fully retracted. Lower brace – Extended 88" C.C. Collapsed 58" C.C.	SPECIFY: SPECIFY: SPECIFY: SPECIFY:	
(n) One spare pin for adjusting the wing braces shall be supplied with each brace.	YES:	NO:
(o) The wing shall be fitted with the following items listed below (p to v):		
(p) One wing HIGH WEAR blade in lieu of standard 1/2" cutting edge.	YES:	NO:
(q) One wing shoe M.T.O. ES-509.	YES:	NO:
(r) The top edge of the wing shall be boxed in and welded 100% to the ribs and the moldboards so as to avoid all pockets.	YES:	NO:
(s) Wing prepped and painted Imron 5000 Elite SS Medium Gloss BLACK as per section 34 of this quotation.	YES:	NO:
(t) One 36" ORANGE plow marker mounted @ rear of wing.	YES:	NO:
(u) Conspicuity safety tape on wing trip arms and on rear edge of wing.	YES:	NO:
(v) A safety chain shall be attached at front of the wing to the moldboard and not the pivot.	SPECIFY:	

(23) - 8" FRONT WING POST:

SPECIFY:

MODEL:

23	(a) The rear wing slide and 3" dia. x 36" stroke hardened chrome D.A. ram shall be mounted on the outside of the rear mast beam, to operate the wing braces.	YES:	NO:
	(b) The design and construction of the wing post shall be in compliance with MTO ES403, or be equivalent design approved by the MTO. Brace "A" li ES403 shall be replaced by a second sturdy cross member. This cross member shall be bolted to both cheek plates. Alternate braces must be approved.	YES:	NO:
	(c) The wing post shall be made of 8" I-Beam, 18.4 lb. /ft., minimum. Cross member shall be of heavy construction to sustain snowplowing operation in severe conditions.	YES:	NO:
	(d) The wing post, when mounted, shall not be higher than the wing tower.	YES:	NO:
	(e) The sheave pin shall be provided with a grease fitting and an oilite bushing.	YES:	NO:
	(f) A safety stop, limited slide travel shall be supplied.	YES:	NO:
	(g) Lifting cable shall not be mounted to the hinge pin.	YES:	NO:
	(h) An 8" grab link shall be located halfway between upper and lower position of bolt "D" as shown on ES403.	YES:	NO:

(i) Front slide shall be provided with a tip over, arrangement. A spring shall be included to return the blade to normal position after it has tripped.	YES:	NO:
(j) Bottom of wing post shall be approx. 11" from the ground, truck empty, and shall be protected by a shoe.	YES:	NO:
(k) A 3" x 30" stroke hardened chrome D.A. cylinder shall be mounted on the inside of the front post and shall operate the front wing slide through 2 (6" dia.) sheaves and a cable.	YES:	NO:
(l) Cross member must be bolted to wing post.	YES:	NO:
(m) 6" overhang shall be left on cross members to allow lateral movement for mounting the wing post on future trucks.	YES:	NO:
(n) Guide bars for the slide shall be welded 100% up 2' from bottom.	YES:	NO:
(o) Design and quality must be approved by the MTO.	YES:	NO:
(p) The wing post and cross member shall be painted Imron 5000 Elite SS Medium Gloss BLACK as per section 34 of this quotation.	YES:	NO:
(q) A parts manual shall be supplied with each unit.	YES:	NO:
(r) Grote part number 12020 - 12" convex mirror shall be mounted to back side of post on 10" angle bracket to enable driver to view down the curbside of the truck.	YES:	NO:
(s) 2- 4" Grote LED lights on front wing post mounted on an adjustable 18" bracket c/w separately marked switches in cab on floor pedestal to be operated independently of the headlights.	YES:	NO:
(t) Aeon rubber helper kit installed on right hand / curbside chassis springs to aid in winging operation.	YES:	NO:

(24) - FULL HYDRAULIC SNOW PLOW WING TOWER:

Viking model VCL 350SCL

SPECIFY:

MODEL:

24	(a) ADDITIONAL MTO X-MEMBER approx. 10" B.C. to be supplied & installed by body builder to compensate for rear wing tower / wing and hydraulics.	YES:	NO:
	(b) The harness assembly shall be of heavy construction to sustain snowplowing operations under severe conditions.	YES:	NO:
	(c) An integral rear wing tower hydraulic oil reservoir B.O.C. above fame, 35 U.S. gallon capacity shall be supplied but must not interfere with the operation of the box. Shut off ball valves shall be installed on outlet lines at the reservoir. Two adjustable needle valves in hydraulics B.O.C. to allow operator to slow/speed up wing function mode.	YES:	NO:
	(d) Bottom of wing tower shall be protected by shoe, and shall have a ground clearance of 14" minimum, truck empty.	YES:	NO:
	(e) The spacing of the holes in the slides for connecting the wing braces shall be approximately 17".	YES:	NO:
	(f) Approved size of ram controlling the front end of wing shall be 3" dia. x 30" hardened chrome stroke approx. with a cable and sheave assembly.	YES:	NO:
	(g) The first channel shall be 4" x 66 1/2" 13.8 lb/ft. slopping diagonal brace.	YES:	NO:
	(h) The second channel shall be 4" x 40" 13.8 lb/ft. horizontal brace bolted to the chassis rails and welded to the brace box.	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(i) Two triangular stiffeners shall be incorporated into the assembly.	YES:	NO:
(j) To provide additional support the oil reservoir shall act as an auxiliary support post.	YES:	NO:
(k) The oil reservoir shall be connected at the top to the rear post through two 4 x 4 x 3/8" angles and be mounted in a vertical position directly along the side of the rear post.	YES:	NO:
(l) The bottom of the oil reservoir shall also incorporate two 4 x 3 x 3/8" angles one welded to the oil reservoir and the other welded to the brace box.	YES:	NO:
(m) Hydraulic hoses shall connect the rams of the tower with the valves in the control box. Hoses shall be two ply braided steel, SAE100R2 with swivels on both ends.	YES:	NO:
(n) All sheave pins shall be provided with oil impregnated bronze bearings and grease fitting.	YES:	NO:
(o) A safety chain shall be provided for securing wing when not in use.	YES:	NO:
(p) Guide bars to contain the rear wing slide shall be welded 100% from the bottom up 2 feet.	YES:	NO:
(q) Parts manual shall be supplied with each unit.	YES:	NO:
(r) Tower assembly to be prepped and painted Imron 5000 Elite SS Medium Gloss BLACK as per section 34 of this quotation.	YES:	NO:
(s) Snow Plow, front and rear wing towers unit shall be removable design to reduce added weight in non-spreading applications / off seasons.	YES:	NO:
(t) Any hydraulic cylinders connected to the wing tower where the rod is exposed during normal snow plowing operations shall be protected from debris coming off of the snowplow wing.	YES:	NO:
(u) Original truck exhaust system shall not be modified before prior consent with the Municipality of Bluewater.	YES:	NO:

(25) - HYDRAULIC CONTROLS:

25	(a) Hydraulic Control Valves will be stackable sectional type HCD-6 with HCD6-L20 air shift. Split valve bank sections: Valve bank sections located @ lower passenger side of plow harness for plow lift / tilt harness / hydraulic tilt moldboard plus front wing post functions. Valve bank sections back of cab for rear wing and body hoist functions.	YES:	NO:
	(b) To prevent corrosion the air shifters will have a bronze sleeve.	YES:	NO:
	(c) The control valve will include the following 7 sections: 1 D.A. Plow Lift 1 D.A. Rear of Wing 1 D.A. Tilt Harness 1 D.A. Wing Brace 1 D.A. Hyd. Power Tilt Moldboard 1 S.A. Body Hoist D.A. Front of Wing	YES:	NO:
	(d) The hydraulic control valves will be operated by proportional featherable in cab air controls.	YES:	NO:
	(e) The control panel assembly shall be of a remote design floor pedestal mounted and adjustable for easy removal of engine doghouse.	YES:	NO:
	(f) Valve flow control needle valve adjustors shall be included for rear wing controls, as stated in section 26.	YES:	NO:
	(g) An oil reservoir of 35 U.S. gallon capacity shall be supplied complete with oil filter oil level sight / temperature gauge, breather type filler cap, drain plug and oil shut off ball valve.	YES:	NO:
	(h) A low-level hydraulic oil indicator shall be supplied with in cab warning light and audible buzzer.	YES:	NO:
	(i) The complete valve stack assembly will be mounted vertically on a 1/4" mounting plate, integral with the rear wing tower	YES:	NO:
	(j) The valve mounting plate will be welded to the horizontal channel and sloping diagonal brace.	YES:	NO:
	(k) The valve assembly will be completely open and easily accessible from the driver's side of the chassis for washing and	YES:	NO:
	(l) There shall be a high-pressure hydraulic filter.	SPECIFY:	
	(m) A low-pressure filter to be supplied on the hydraulic return line.	SPECIFY:	
	(n) One-way plow shall be equipped with an accumulator to reduce bounce on plow while travelling down the road with one-way plow suspended on chains.	YES:	NO:

(26) - TANDEM DRY MODE FRONT MOUNT HYDRAULIC PUMP:


26	(a) The hydraulic pumps supplied shall be a Dowty, model: 2PL158/220 Tandem Dry Mode with air shift controls to engage.	YES:	NO:
		SPECIFY: MODEL: MAKE:	
	(b) The first stage shall produce 24.5 G.P.M. at 2,000 R.P.M. and 1,200 P.S.I.	YES:	NO:
	(c) The second stage shall produce 29.2 G.P.M. at 2,000 R.P.M. and 1,200 P.S.I.	YES:	NO:
(d) Pump mounting plate and splined drive shaft shall be supplied.	YES:	NO:	

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(e) The pump shall be driven from the crankshaft by a machined/balanced tube drive shaft.	YES:	NO:
(f) The pump shall have a manufacturer's R.P.M. rating equivalent or higher than that of the truck engine at governed speed.	YES:	NO:
(g) Hydraulic hoses to connect pump shall be supplied. Their size shall be adequate for quick operation of all hydraulic operations and shall be Eaton Aeroquip 2 wire, 3 1/2" radius bend, 4500 > 5300 PSI rated, -50 degree + 260-degree temperature rated SAE100RS, with swivels on both ends.	YES:	NO:
(h) The drive shaft shall be supplied with spline long enough to allow telescopic retraction of the shaft in order to change fan belt without removing the pump.	YES:	NO:
(i) The hydraulic system must be set up so all other hydraulic functions do not "rob" the sander equipment.	YES:	NO:
(j) The first stage of the pump will be dedicated to the operation of the spinner and conveyor system.	YES:	NO:
(k) The second stage of the pump will operate all plow / wing functions and the body hoist.	YES:	NO:
(l) Single stage one section hydraulic GEAR pumps will not be acceptable.	YES:	NO:
(m) There will be no flow divider valves used to split oil flows between spreader and plow / wing functions.	YES:	NO:
(n) A paper and digital parts manual shall be supplied with each unit set of plow equipment.	YES:	NO:
(o) All hydraulic hoses to be routed and tied to prevent pre-mature wear. And all hoses will be wrapped with hose protector full length.	YES:	NO:

(27) - VIKING ALL SEASON COMBINATION DUMPBODY / SPREADER:

27	(a) These specifications describe an All-Season Combination Dump Body and Sand/Salt Spreader. The dump box shall remain stationary on the chassis frame while spreading. Rear discharge shall be front hoist tilt action as per conventional dump bodies. The unit will be oval shaped to permit gravity flow unloading. The main conveyor will be centered and recessed along the length of the box. The cross conveyor will be chassis frame mounted with spreader discharge on the front, left side (driver's) of dump box.	YES:	NO:
	(b) The spreader body offered by the bidder under this specification shall be the manufacturer latest model standard commercial product and shall have demonstrated and proven industry acceptance by having been manufactured and sold in significant numbers to Municipalities and Contractors, and shall be proven in service for at least one year prior to issuing of this tender document.	YES:	NO:
	(c) Viking model Proline 1415HW or equivalent approved by the Municipality	YES:	NO:

	Specify Make and Model	
<p>(d) Dump body to be prepped and painted Imron 5000 Elite SS Dump body to be prepped and painted Red as per section 34 of this tender. Lower outside area of dump body to be coated with Linex and match Dumpbody color as per the depiction below.</p> 	YES:	NO:
<p>(e) DIMENSIONS: To provide optimum combination of legal payload and capacity, all dimensions below are maximum / minimum and will be exactly as specified.</p>	YES:	NO:
<p>(f) Body shall be oval shaped, permitting materials to unload by gravity flow onto spreading chain.</p>	YES:	NO:
<p>(g) Total weight of the complete body assembly in ready to work condition including hoist, tarp, tailgate, cross conveyor, main conveyor, and all other required components not to exceed 7,200lbs</p>	SPECIFY: lbs.	
<p>(h) Water level capacity will be 14 cu. Yards without sideboards. Specify:</p>	YES:	NO:
<p>(i) Body head board, sides to be constructed from 3/16" Hardox 450 corrosion resistant high tensile steel.</p>	YES:	NO:
<p>(j) The front head of the body will be with an 8"x16" doghouse sloped to maintain self-cleaning feature.</p>	YES:	NO:
<p>(k) Top rail of body will be 6" x 4" x 3/8" rectangular tubing. Specify:</p>	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(l) All body welds will be 100% continuous inside and outside.	YES:	NO:
(m) Body front headboard 3/16" Hardox 450.	YES:	NO:
(n) Body sides 3/16" Hardox 450	YES:	NO:
(o) Rear vertical corner posts will be 10ga sheet steel, fabricated in such a way as to include provision for rear facing lighting requirements.	YES:	NO:
(p) Rear vertical corner posts to be tied to radius side panels and horizontal top rails and welded 100%.	YES:	NO:
(q) Rear vertical corner posts to be connected to main conveyor by a rear horizontal 3" x 8" x 3/8" wall HSS tube expanding the full body width.	YES:	NO:
(r) Body construction shall include integral full length body side fenders fabricated from a minimum 10 ga. Cor-ten "A" corrosion resistant material.	YES:	NO:
(s) Fenders shall be full length from front to rear of body.	YES:	NO:
Dump box access stainless steel ladder shall be 15" wide, two-piece fold-up ladder located driver side front of body. Ladder will be manufactured from safety grip strut material.	YES:	NO:
(t) Adjustable fold down windrow salt chute to be provided.	YES:	NO:
(u)		

(28) – HOIST:

28	(a) Mailhot nitride 3 stage telescopic trunion hoist "C" series Model CS- 130-5.5-3	YES:	NO:
	(b) Hoist capacity shall be 30 ton @ 2,000 P.S.I.	YES:	NO:
	(c) Cylinder stroke shall be 330 CM (130") minimum.	SPECIFY:	
	(d) Hoist control valve shall be air operated and featherable from within cab.	YES:	NO:
	(e) Hoist cylinder will be rod sealed.	YES:	NO:
	(f) Hoist to be nitrated.	YES:	NO:

	(g) Dump box tipping angle shall be 50 degrees from horizontal.	YES:	NO:
	(h) Rear dump body hinge diameter shall be 2.5" c/w grease fittings.	YES:	NO:
	(i) The body to be equipped with a positive locking support braces integral with front trunion hoist mount.	YES:	NO:
	(j) Rear hinge diameter shall be 2.5"	YES:	NO:

(29) – TAILGATE:

9	(a) Tailgate shall be double acting.	YES:	NO:
	(b) Tailgate height shall be 62" from conveyor floor.	YES:	NO:
		SPECIFY:	
	(c) Upper hinge plates to be offset design flame cut from 1" steel plate.	YES:	NO:
	(d) Tailgate shall be oval shaped to allow use of asphalt or gravel spreaders.	YES:	NO:
	(e) Construction shall be of 3/16" Hardox 450 steel with 3/16" formed cross bracing.	YES:	NO:
	(f) Exterior vertical side support tubes to be 3 1/2" x 3 1/2" x 1/4" wall HSS tubing.	YES:	NO:
	(g) Latch mechanism for the tailgate shall be air trip using two air pot chambers actuated from inside cab. Brake chambers directly coupled to 1/2" thick flame cut latches	YES:	NO:
	(h) Brake chambers, one right side and one left side, enclosed and protected by integral full-length body fenders.	YES:	NO:
(i) A bolt on rear asphalt apron shall be supplied to facilitate dumping into rear asphalt hopper.	YES:	NO:	
(j) Spreader chains and brackets shall be supplied on tailgate and rear apron. Chains shall be grade 70-coil proof 3/8" minimum.	YES:	NO:	

(30) - MAIN CONVEYOR:

30	(a) The main conveyor shall be centered and recessed along the length of dump box floor.	YES:	NO:
	(b) Three piece formed construction, minimum 25" wide.	YES:	NO:
	(c) Constructed of 1/4" Cor-ten "A" steel.	YES:	NO:
	(d) Conveyor floor is 1/4" Hardox 450 H.D. steel rated @ 180,000 > 203,000 P.S.I.	YES:	NO:
		SPECIFY:	
	(e) Permanent non-removable built in protective main conveyor chain link covers.	YES:	NO:
	(f) The protective covers will run from the front to the rear of the body, right and left side of the main conveyor.	YES:	NO:
	(g) The protective non-removable main conveyor link covers will protect the main conveyor chain links from damage by impact at all times in all operation modes.	YES:	NO:
(h) In addition to the permanent non-removable main conveyor chain link covers a second quick removable conveyor chain cover will be supplied. The removable cover will protect the main conveyor floor and conveyor chain cross flights from damage by impact when installed	YES:	NO:	

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(i) The removable main conveyor cover will be manufactured from 1/2", 2 ply high temperature rubber. The removable main conveyor cover will self-feed into place to allow fast and simple installation. Removal of the rubber conveyor cover from the body will be accomplished by starting the main conveyor, which will then feed the cover out through the front material discharge gate and will be a one-man operation.	YES:	NO:
(j) The conveyor chain shall be self-cleaning D667 pintle type with a minimum tensile strength of 21,700 PSI, spaced 21" on	YES:	NO:
(k) 3/8" "X 1 1/2" cross flights welded to every 2 nd . link (approx. 4.5" spacing).	YES:	NO:
(l) All conveyor flights shall be 100% fully welded to the chain links.	YES:	NO:
(m) Drive and idler shafts to be 2" diameter.	YES:	NO:
(n) Drive and idler shafts manufactured from high-resistance stress proofed SAMSOM 100.	YES:	NO:
	SPECIFY:	
(o) Drive and idler sprockets to minimum eight (8) tooth cast steel.	YES:	NO:
(p) All drive and idler sprockets to minimum C1030 cast steel.	YES:	NO:
	SPECIFY:	
(q) Planetary drive for main conveyor.	YES:	NO:
(r) Main conveyor drive shall be a single 25:1 high efficiency planetary drive with high torque low speed motor.	YES:	NO:
(s) The planetary drive shall deliver 50,000 IN/LB torque intermittent with 34,960 IN/LB constant.	YES:	NO:
(t) Planetary drive close coupled to main conveyor shaft. Specify: make and model of planetary. MAKE: MODEL:	YES:	NO:
(u) Connection of the planetary drive shaft to the main conveyor shaft shall be accomplished via a split two-piece shear disc coupler assembly.	YES:	NO:
(v) The upper and lower half of the coupler assembly will be bolted together by (3) or (4) 3/8" x 1 1/2" N.C. Grade 2 Hex Head bolts. Specify:	YES:	NO:
(w) Removal of the (3) or (4) coupling bolts will allow simple disassembly of the planetary drive shaft from the main conveyor shaft, for ease of maintenance. Specify:	YES:	NO:
(x) The two main conveyor drive shaft flange bearings will be bolted directly to the body long sill weldments.	YES:	NO:
(y) Each of the two-body long sill weldment will be vertical slotted. Simply removing the drive shaft flange bearings and uncoupling the planetary and main conveyor drive shafts. The entire conveyor drive shaft assembly will drop out through the vertical long sill slots providing easy access and simple maintenance.	YES:	NO:
(z) Idler end of main conveyor will also be vertical slotted drop out design as described above.	YES:	NO:

	(aa) Conveyor chain tension to be regulated via an automatic chain tensioning system. This tensioning system will provide appropriate chain tension for the main conveyor chain at all times and under all normal operating conditions.	YES:	NO:
	(bb) The fully automated chain tensioner will eliminate the requirement for any manual chain tension adjusting mechanisms such as conventional threaded rod and nut tensioners or hydraulic grease ram tensioners.	YES:	NO:
	(cc) Automated chain tensioning system to be centrally located between main conveyor drive and idle shafts.	YES:	NO:
	(dd) Access to automated conveyor chain tensioning system shall be from the side(s) of the body	YES:	NO:
	(ee) The flow control gate between main and cross conveyor shall be screw adjustable by hand crank from driver's side of dump body	YES:	NO:
	(ff) The main conveyor flow control gate, will be recessed into front of the body to act as integral salt doghouse	YES:	NO:
	(gg) Underside of main conveyor to be complete with poly guard to prevent material spillage on to chassis components and frame rails with a washout opening at front	YES:	NO:

(31) – CHAIN CROSS CONVEYOR:

31	(a) The cross conveyor shall be hydraulic direct drive.	YES:	NO:
	(b) A cross conveyor assembly shall be used to discharge material from main conveyor to the unit LH side.	YES:	NO:
	(c) Cross conveyor assembly to mount on chassis frame independent from and in front of main combination	YES:	NO:
	(d) Cross conveyor unit shall be removable design to reduce added weight in non-spreading applications / off	YES:	NO:
	(e) Cross conveyor weldment shall be fabricated from a minimum 3/16" 201 stainless steel corrosion resistant	YES:	NO:
	(f) Cross conveyor chain to be fabricated from two (2) strands of D662 pintle chain spaced 10" apart on center.	YES:	NO:
	(g) Cross flights to be 100% welded to chain links.	YES:	NO:
	(h) The cross conveyor chain shall be a pintle chain 3/16" X 1" crossers every 4" with a minimum tensile strength of 17,000	YES:	NO:
	(i) Cross conveyor assembly to include replaceable polymer guards to prevent material from entering between chain	YES:	NO:
	(j) Cross conveyor assembly to provide provisions for mounting of material sand / salt chutes and spinner	YES:	NO:

(32) – SPINNER:

32	(a) A polyurethane spinner shall be installed on left hand side (driver side) to spread ahead of rear wheels.	YES:	NO:
	(b) A 3.0 cubic inch hydraulic motor shall drive the spinner assembly.	YES:	NO:
		SPECIFY:	
	(c) The spinner height shall be adjustable from 20" to 28" below the mounting surface of the body.	YES:	NO:
	(d) The spinner shall be capable of spreading evenly up to a 20' radius with a main operating range of 0' to 15' radius.	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

	(e) Spinner assembly shall be capable of discharge rate from 100 lbs. / lane mile to 2500 lbs. / lane mile.	YES:	NO:
	(f) Spinner position adjustable fore and aft horizontal along chassis frame rails.	YES:	NO:
	(g) Spinner assembly will be flip up style allowing the spinner to be carried in an on-board stored raised position.	YES:	NO:
	(h) Hydraulic hoses to the spinner motor are to be quick disconnect couplers for ease of hook-up and removal of spinner assembly with the male plugging into the female end on the spinner motor and the hoist frame saddle when the	YES:	NO:
	(i) Grote 4" L.E.D. spinner light with marked cab control on floor pedestal.	YES:	NO:
	(j) Poly lined spinner chute to be included.	YES:	NO:

(33) - SANDER CONTROLS:

3 3	(a) Dickey John CONTROL POINT electronic controller, CLOSED LOOP / ground speed system or granular spreading with 3-section valve (spinner, main conveyor)	YES:	NO:
	(b) Controller to come with up to date computer software for setting spread rates.	YES:	NO:
		SOFTWARE VERSION:	
	(c) Automatic granular reduction feature to be included.	YES:	NO:
	(d) The regulator to be pressure compensated so that the selected flow will not change as load or engine speed	YES:	NO:
	(e) Main conveyor sensor motor and adaptable cable.	YES:	NO:
	(f) Sprague Road Watch RW-1 system complete with read out gauge mounted in dash. The road sensor shall be mounted on the driver's side mirror bracket. This system is to have a 2 amp fuse in power supply.	YES:	NO:
(g) Training shall be included with this quotation and provided at the Municipality of Bluewater's Varna shop for calibrating and operations of the Dickey John units.	YES:	NO:	

(34) - PAINT

34	<p>(a) The dump body and all plow equipment shall be shot blasted and zinc primed, finish paint acrylic urethane, IMRON 5000 Elite SS – BAKED FINISH! No substitutes. SPECIFY (type and finish): Red. Colour will be selected at time of order. All Plow Equipment: Imron 5000 Elite SS Medium Gloss Black</p>	YES:	NO:
	<p>(b) Conspicuity safety tape package on lower sides of body and on tailgate.</p>	YES:	NO:

(35) - LOAD COVER

35	<p>(a) An air tarp shall be standard equipment with fabricated tarp arms dimensions of 1 1/2" X 1 1/2" aluminum tubing, 1/8" mesh tarp and TWO (2) 14" stroke air cylinders mounted to sides of body. Tarp arms to be DOG LEGGED to allow arms to be moved forward allowing better loader access and less chances of damage to tarp arms. In cab air operated control on floor pedestal.</p>	YES:	NO:
	<p>(b) 10-inch hardwood sideboards painted black installed on each side of truck box.</p>	YES:	NO:
	<p>(c) Mud flaps fore and aft of rear axle, frame mounted by full width steel flat bar with stop bar stiffener.</p>	YES:	NO:

(36) - LIGHTS AND WIRING

36	<p>(a) Lights and wiring shall be completely sealed with corrosion and vapor proof lamps and junction box.</p>	YES:	NO:
	<p>(b) Two upper plugs in rear MTO detachable light trees of aluminum construction w/stops/turn/tail and upper sealed beam RED lights. L.E.D. blue on driver's side and amber on passenger side. One tree each side of body w/separate 7 wire trailer plug in. Grote 6" spotlight aimed at ground up on R.H. tree-hooked in to O.E.M. reverse switch. Lights shall be mounted as low as possible in the mounting bracket.</p>	YES:	NO:
	<p>(c) For improved rear visibility, Grote L.E.D 6" rectangular stops, tail and directional w/2 standard in-candescent back-ups to be mounted in rear corner posts within 3" of the outside of the tailgate.</p>	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(d) Grote rubber grommet 2 1/2" L.E.D. corner body clearance marker lights.	YES:	NO:
(e) Grote 'ULTRA' BLUE SEAL wiring harness only to be supplied and installed. Betts sealed electrical junction box mounted B.C. above frame on driver's side for all body lighting. 9 electrical back lit body light rocker switches / 12 function – integrated circuits in aluminum control panel mounted on swivel pedestal between seats.	YES:	NO:
(f) Grote 4" AMBER and BLUE L.E.D. strobes mounted in stainless steel boxes at rear frame rails below body within cab switch.	YES:	NO:
(g) Whelen Responder LP light (Model # RDLPPAB) mounted at back of cab on adjustable light pole/pedestal with separate marked cab 3-way switch on pedestal for amber or blue.	YES:	NO:
(h) Grote L.E.D. Amber and Blue strobes up at top corners of body, one each side of gate, marked switch in cab. Spare amber lens, 3 lights in total.	YES:	NO:
(i) 6" B.C. L.E.D. conveyor light back of cab on separate switch.	YES:	NO:
(j) All auxiliary lighting will plug directly into chassis O.E.M. connection: cutting, splicing, soldering or shrink tubing of connection is not acceptable.	YES:	NO:
(k) Headlight selection between plow headlights and OEM will be provided by the means of an auxiliary O.E.M. switch in the cab.	SPECIFY:	
(l) License plate provision c/w light on rear of body c/w light. Original OEM truck taillights to remain operational on the truck.	YES:	NO:

(37) – HYDRAULIC FRONT TILT HARNESS

37	(a) Viking Model VCL 500T with the following specifications and approved by the Municipality of Bluewater.	YES:	NO:
		SPECIFY:	
	(b) The front plow harness will tilt forward to allow the chassis hood to tilt forward over centre of its pivots and stay open without the need of any additional supports.	YES:	NO:
	(c) The harness tilt and return function will be performed by the operator from inside the chassis cab via feather air over hydraulic control.	YES:	NO:
	(d) One single non-load bearing locking shaft will be manually removed prior to performing the tilt function.	YES:	NO:
	(e) The single lock shaft will have an outside diameter of 1 1/2" and overall length will be a minimum of 30".	YES:	NO:
	(f) A handle will be provided on one end of the lock shaft 4" square, 3/8" tube by 3/4", the other end will be chamfered at 30 degrees.	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(g) The lock shaft will when installed be located inside the full-length connecting tube.	YES:	NO:
(h) The connecting tube and lock shaft assembly will together form the upper connection point of the cheek plate weldment to the front plate assembly.	YES:	NO:
(i) The connecting tube overall length will be 23 3/8", inside 1.612", outside diameter of 1.90".	YES:	NO:
(j) The hydraulic power tilt hardened chrome cylinder will be double acting 2 1/2 "with a 6" stroke.	YES:	NO:
(k) Two lower pivot tubes will be provided, the outer pivot tube will be connected to the right and left side cheek plates, the inner pivot tube will be permanently attached to the front plate assembly.	YES:	NO:
(l) The inner pivot tube will rotate forward inside the outer pivot tube allowing the front plate assembly to travel forward into the tilted position and will rotate rearward to return the front plate assembly to the normal working position.	YES:	NO:
(m) The inner pivot tube will be 4" outside diameter 2 3/4" inside diameter, 52" long seamless mechanical tubing.	YES:	NO:
(n) There will be two inner pivot tube gussets 1/2" plate, 18 13/16" long, 5" wide tapered to 2 1/4".	YES:	NO:
(o) End plate located on inner tube 1/2" material 12" x 6" to provide lower mounting location for wing front post.	YES:	NO:
(p) The outer pivot tube will be 5 9/16" outside diameter, 4 1/16" inside diameter, 25 3/8" long extra heavy pipe.	YES:	NO:
(q) There will be two outer pivot tube gussets 1/2" plate, 8" x 8" triangular.	YES:	NO:
(r) Outer pivot tube fitted with three 1/8" NPT Grease fittings for lubrication, one each located approximately 2" in from the end of the tube and one located in the centre.	YES:	NO:
(s) The front plate will be one solid piece of 3/8" steel plate with cut out of sufficient size to allow cooling of the chassis radiator.	YES:	NO:
(t) Overall height of the front plate will be 49" with a 5 1/4" 90° bend at the top and a 2" 90° bend at the bottom.	YES:	NO:
(u) Overall width of the front plate will be 57 1/2" at the top and 40" at the bottom.	YES:	NO:
(v) Right and left side plates, 15 3/4" maximum width by 49 1/4" high 3/8" plate welded to the front plate.	YES:	NO:
(w) Upper cross channel 6" by 52" 13 lbs. /ft. welded to the right and left side plate.	YES:	NO:
(x) End plate located on upper cross channel 1/2" material 12" x 6" to provide upper mounting location for wing front post.	YES:	NO:
(y) 1/2" steel plate pump and tilt cylinder-mounting bracket welded to the cheek plate assembly, 24 1/4" wide by 18 1/2".	YES:	NO:

The Municipality of Bluewater – Tender to Supply and Deliver One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness

(z) Cheek plates will be specified to suite chassis frame rails, 1/2" steel plate and will extend back along the chassis frame rails as far as possible.	YES:	NO:
(aa) Fasteners attaching cheek plates to the chassis frame rails will be minimum grade 8 N.C. hex head bolts.	YES:	NO:
(bb) Two pairs of drive ears 100% welded to the front plate spaced at standard 30 1/2" centers.	YES:	NO:
(cc) Three sets of plow drive bar connection holes located in drive ears height to lower drive connection 19" mounted with truck empty.	YES:	NO:
(dd) Plow attachment to plow harness by means of bolt up to 3 hole drive ears welded on to face of plow harness plate. Hydraulic plow lift cylinder, double acting 4" diameter with 10" stroke, cylinder rod chrome plated. Plow lift yoke 3/4" steel plate, braced with two 1/4" x 2" flat bar diagonal position.	YES:	NO:
(ee) Two mounting locations in lift yoke to provide location for mounting of plow hydraulic lift cylinder in winter operating position and stored summer position.	YES:	NO:
(ff) Mounting plates for plow lift cylinder, lift yoke and lift yoke braces all 1/2" steel plate 100% welded to front plate.	YES:	NO:
(gg) Lift yoke brace mounting plates positioned to provide minimum 23.5" span.	YES:	NO:
(hh) Two sealed beam halogen plow light mounting lights with high and low beam and built in integral directional switch in cab.	YES:	NO:
(ii) Right and left side plow light mounting brackets extending 7" up from top of front pate with light mounting positions on 55" centres. *License plate provision at top of driver's corner harness.	YES:	NO:
(jj) Vapour proof wiring for plow lights, with universal harness and plug in assembly.	YES:	NO:
(kk) Two independent double acting valve sections will be incorporated in the valve stack, one section will provide hydraulic power for the plow lift function and the second valve section will operate exclusively the hydraulic power tilt function.	YES:	NO:
(ll) Two independent in cab feather joystick air controls will be pedestal mounted inside the chassis cab, one control will operate exclusively the plow lift function and the second control will operate exclusively the hydraulic power tilt function.	YES:	NO:
(mm) All structural steel plate used in the plow harness will be 44W complying with CSA G40.21.	YES:	NO:

	(nn) Tensile strength will be 65-90 KSI and the minimum yield strength will be 44 KSI	YES:	NO:
		SPECIFY TENSILE: YIELD:	
	(oo) All steel prepped and painted Industrial Imron 5000 Elite SS Medium Black as per section 34.	YES:	NO:

(38) - HYDRAULICS

38	(a) The body operation shall be powered by the existing hydraulics of the snowplow truck harness.	YES:	NO:
	(b) All fittings, valves, hoses and drive shaft shall be supplied and installed. All hoses shall be equipped with swivels on both ends.	YES:	NO:
	(c) All hydraulic hose shall be 100R16 with 3 1/2" radius bend, -50 / + 260 degree temperature rated, 4500 > 5400 PSI rated. SPECIFY: (hose/make/model)	YES:	NO:
	(d) A combination sight / temperature gauge to allow easy checking of the hydraulic oil in the reservoir shall be supplied.	YES:	NO:
	(e) Prototype units will not be acceptable.		
	(f) The bidder must be able to demonstrate a solid history of use of the combination U-body/spreader offered in this quotation by Ontario Municipalities, for a minimum period of one year, and references must be supplied as specified below.	YES:	NO:

(39) – TOW HOOK/LOOP

39	(a) A mounting plate shall be supplied and installed between the rear frame rails to hook a towing recovery loop. One heavy duty loop shall be located in the centre of rear block mounted between the two frame rails. This hook shall be in close proximity of the heavy duty hinge to prevent twisting in the event of pulling out trucks. This hook or loop is not to interfere with Municipal shoulder gravel machine and may need to be recessed to accommodate the shoulder spreader.	YES:	NO:
----	--	------	-----

(40)– REFERENCES

List two (2) Ontario Municipalities who have been using the combination U-body/spreader offered in this quotation for a minimum period of one year.

	Name of Municipality	Contact Name	Length of Time Combination U-Body in Service	Specify Model # of Combination U Body Owned	Phone #
1.					
2.					

Equipment manufacturing facility located @: _____

Equipment to be installed @: _____

Equipment installers Transport Canada Safety Mark #: _____ Equipment manufacturer / installer ISO9001 – 2000 registered. YES:___ NO: ___

Equipment manufacture / installer WHMIS compliant and clearance certificate # : _____ Copy of Viking Cives certificate of insurance information to be submitted with bid.

Base Bid Price for One New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness:

Tender Price for New 2021 – 68,000 G.V.W Tandem Cab and Chassis with Combination Dump and Spreader Bodies, Snowplow Harness	\$
H.S.T.	\$
Total Tender Price	\$

Option for Provisional Items:

<i>Cab & Chassis Option List:</i>	
1. Tractor package which will include and is not limited to the following: air connections to end of frame with swivel style glad hands for truck. Primary connector/receptacle wired for separate stop / turn, ABS center pain powered through ignition. SAE J560 7-way primary trailer cable receptacle mounted end of frame. There shall also be an O.E.M. mounted life axle switch located on the dash. There shall also be a 50-ton air compensated Pintle Hook mounted on hitch plate and control switch in cab. This option shall also include changing the Gross H.P. rating from 430 to 470 .	\$
<i>Body Builder Option List:</i>	
2. Aeroquip Bruiser™ FC-735 ultra-abrasion resistant outer cover hydraulic hose versus hose specified in tender document. All hoses will still need to be wrapped with Parker Partec hose wrap if this option is selected.	
3. DOT SAE LED Truck Lite HL19 heated plow driving lights with #725522 Plow light Pots	

with left-side turn signal and right-side turn signal	
4. ABL 3800 LED heated combination driving lights with signals	
H.S.T.	\$
Total Provisional Price	\$

Option for Trade-In :

2007 Sterling Tandem	\$
H.S.T.	\$
Total Tender Price with Trade-In	\$

Note – Contact the Municipality to schedule an appointment to view the condition of the trade-in piece of equipment. The Municipality reserves the right to not accept the pricing received on the trade-in piece of equipment.

ADDENDUMS ACKNOWLEDGED: ____ OF ____

STATE DELIVERY DATE: ____ WEEKS AFTER RECEIPT OF ORDER CONFIRMATION.

Company

Authorized Representative

Address

Phone Number

Email Address

The undersigned Tenderer has carefully examined the Tender document and will furnish all materials called for by the Tender documents in the manner prescribed therein, for the cost as submitted in the Bid Price. The undersigned bidder also understands and agrees as follows:

1. This Tender is irrevocable and open for acceptance for a period of sixty (60) days from the date of the closing of the Tender.
2. That no person, firm or corporation other than the Tenderer has any interest in this Tender.
3. That this Tender is made by the Tenderer without any connection, knowledge, comparison of figures or arrangement with any other person or person submitting a Tender for the same, and is in all respects fair and without collusion or fraud.

Authorized Signing Authority: _____
(Full Name & Title)

Signature: _____
I have authority to bind the Corporation Date