



THE CORPORATION OF THE CITY OF NIAGARA FALLS

REQUEST FOR TENDER - SUPPLY

**RFT17-2019 - SUPPLY & DELIVERY OF
TWO (2) SINGLE AXLE PLOW SANDER TRUCKS**

SPECIFICATIONS

NAME OF COMPANY (DEALER): _____

| ITEM/CATEGORY | CITY REQUIREMENTS | BIDDER TO STATE SPECIFICATIONS |
|---------------------------|---|--------------------------------|
| OMVIC Registration | Bidders must be registered under the Motor Vehicle Dealers Act. The City will not consider bids from any bidder who is not specifically named as REGISTERED on the Ontario Motor Vehicle Industry Council (OMVIC) registry at the time of this tender closing. | |
| Make | GMC top-kick will not be accepted. | |
| Year | Brand new latest model chassis | |
| Model | | |
| Engine | 6 cylinder diesel turbo-charged, 370 HP minimum at 2000 RPM. 1250 lb. ft. torque at 1400 RPM. 2100 RPM governed speed. Shall have exhaust brake, automatic engine shutdown with 3 minute delay. Low coolant level indicator with audible alarm. Engine block heater required. Shall be 115 volt/1000 watts. Extended life coated oil pan. Anti-freeze permanent to -40 degrees Celsius. To be equipped with Horton Drive-Master Polar Extreme two speed, with residual torque devise for disengaged fan speed. To be equipped with electronic hand control throttle electronic. Radiator to be cross flow, series system, 1300 sq. in. aluminum radiator core and 885 sq. in. charge air cooler and 470 sq.in. Low temp. Radiator down flow, for use with front mount | |

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| | PTO. Chassis OEM radiator manufactured to allow full cooling and increased durability. PTO effects, includes adapter plate on engine, front mounted. Engine control, remote mounted includes wiring for body builder installation of PTO controls with ignition switch control. To meet Federal emissions for engines WITH EPA-CARB CERTIFICATION. | |
| Weight | minimum G.V.W. (49,000 lbs.) | |
| Dimensions | Shall have a cab to axle dimension of Approx. 112" maximum clear and usable as required for spreader body and snow wing equipment plus normal clearance. Box overhang from box hinge should not exceed 18" (subject to completion of installation drawing for equipment bid). | |
| Transmission | Transmission shall be six (6) speed automatic overdrive. Oil temperature gauge. Shall be Allison 3000 RDS/P, close ratio to achieve 100 kph at ground speed WITH 5 YEAR WARRANTY. Oil cooler (Modine) water to oil. Shifting shall be done by means of a center dash mount selector. | |
| Plow Equipment | As Stated | |
| Wheel Base | Specify | |
| Suspension | Springs shall be heavy duty multi-stage type, taper leaf 23,000 lb. capacity. Right front helper spring required to carry wing. Front shock absorbers are required. Rear suspension, single flat leaf, 26,500 lb. capacity with helper and radius rod spring. Prefer spring pins to be rubber bushings, maintenance free. | |
| Axles | Front shall be a minimum of 22,000 lb. capacity set forward wide track I-beam type. | |

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| | Rear axle single reduction 26,000 lb. capacity minimum with a gear ratio of 6.14 driver traction control. | |
| Steering | Shall be dual power steering. Tilt and Telescoping steering column. | |
| Oil Filter | Supply spare | |
| Air Filter | Supply spare | |
| Fuel Filter | Supply spare | |
| Air Cleaner | Shall be heavy duty dry type. Integral snow valve and in-cab control. Restriction indicator located in cab. | |
| Exhaust System | Shall be single horizontal after treatment devise frame mounted outside the right rail under cab and to include vertical tailpipe and guard. Exhaust system must avoid interference with installation of snow plow wing. Switch for exhaust 2 position, lighted & latching, on/off type, mounted in IP, inhibits diesel particulate filter regeneration as long as switch is in ON position. | |
| Tires | Two (2) fronts shall be 425/65R22.5 Michelin XZY-3, 20 ply, highway tread, load range L. Four (4) rears shall be 12R22.5 Michelin XDS, 16 ply, mud and snow tread, load range H. | |
| Brakes | Brake system shall be air dual system, anti-lock brake system. Front axle brake chambers, Haldex 24 sq. in. long stroke chambers. Rear axle brake chambers, Haldex LC3030LHD 30/30 spring-brake and heavy duty spring actuated parking brake. Automatic slack adjusters front and rear with stainless steel clevis pins and brake adjustment indicators. Drain valves, manual with pull chain located on primary and secondary air tanks with snow | |

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| | and ice protection tubes. Air tank location (2) mounted outside right rail under cab on step mounting brakes. Air tank painted aluminum with straight thread o-ring port. Bendix Coalescing air system oil filter. Air dryer (Bendix Ad-9) with heater mounted inside frame with easy access for servicing is required. Air compressor shall be a minimum of 18.7 CFM. | |
| Wheels | Wheels shall be power coated finish. Front shall be 22.5, hub piloted disc wheel painted steel with 12.25 DC rims with white powder coat paint. Rear shall be dual 22.5, hub piloted disc wheel painted steel with 8.25 DC rims with white powder coat paint. | |
| Mud Flaps | Must be plain black not logoed | |
| Fuel Tank | Shall be 25" Cylindrical, 60 U.S. gallons (227 litre) minimum capacity, non-polished aluminum with stainless steel bands. Shall be mounted left side under cab and will provide clearance for spreader body spinner assembly. | |

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| Electrical System | <p>12 volt electrical system required. Electric horn required. Air horn with single trumpet, air solenoid operated. Circuit breakers auto-reset, main panel SAE Type III with trip indicator. Backup alarm, Preco 1059 electronic, solid state, dual function, 112 dba. Alternator 12 volt 160 amp DR 12V 36-SI brushless capacity minimum. Battery shall be maintenance free (3) 12 volts with 2775 CCA in location that will not interfere with spinner or wing harness .Extra 3 Feet of battery cable for Bodybuilder battery relocation. Battery box steel, with cover, back of cab as far as possible, mounted left side perpendicular to frame rail. Radio shall be AM/FM/ weatherband, clock . Windshield wipers speed control with intermittent feature. Front turn signals, dual face, amber/red mounted on mirror bracket. Headlights to be Sealed Beam Turn signal flasher shall be solid state. Truck manufacturer to supply body builder wiring back of cab at left frame to include sealed connectors for tail/amber turn/marker/backup accessory/power ground and sealed connector for stop/turn. 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 center of header console in cab. 3' auxiliary harness for auxiliary front headlights and turn signals for front plow applications. Truck manufacturer to supply OEM 12 switch panel for body builder body circuits mounted in instrument panel, 20 amp per channel switches mounted inside cab. All Control</p> | |

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| | Module to be mounted inside cab. | |
| Windows & Mirrors | Power / heated mirrors | |
| Heater & Defroster | Manual | |
| Lights | <p>All lighting shall conform to Ontario Highway Traffic Act Standards.</p> <p>LED Lights.</p> <p>Two (2) Star Warning.(1) Model 23803 LED & (1) Model 23804 LED series beacon lights shall be supplied and mounted on dump body.</p> <p>Lights shall be mounted on spreader body cab shield behind cab, one (1) amber lens, one (1) blue lens,separate switches.</p> <p>Left and right rear Star LED strobe lights, one (1) blue, one (1) amber, to be mounted in spreader body rear upper box corner posts.</p> <p>LED stop/tail/directional and backup lights to be and installed in spreader body rear corner posts.</p> <p>Spreader body stop/tail/directional and backup lights to be LED.</p> <p>Heated LED plow lights required.</p> <p>Plow lights shall be direct plug into OEM chassis plow light connection with no cutting or splicing of wiring system.</p> | |

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| | Wiring system for spreader body shall be Grote ultra-blue seal. | |
| Cab Equipment - Required | <p>Conventional cab, steel 83" wide minimum. Cab interior width dimension 78" shoulder room minimum. Cab interior height dimension minimum of 56.5". Cab B.B.C. dimension not to exceed 110". Cab suspension, air bag type. Cab sound insulation includes dash insulation and engine cover insulation. Cab shall be Air Conditioned with integral heater and defroster. Driver and passenger seats shall be air suspended, high back with integral headrest, cloth. Preference – National 2000 with lumbar support, cloth, 2 position front cushion adjustment, seat back adjustable and dual shocks. Driver right side arm rest. Passenger left side arm rest. Cab mounted grab handles right and left interior and left side exterior. Rubber floor mat. Dual sun visors. Two (2) styled rectangular mirrors 7.09" X 15.75" breakaway brackets type, 102" wide spacing, integral convex both sides, all heated heads, thermostatically controlled, clearance lights, powered both sides, flat glass only.</p> | |
| Accessories | <p>Power windows/locks left and right doors. This unit shall be equipped with all standard equipment required by law.</p> | |
| Front End | <p>Shall be tilting, fiberglass construction With stationary grille. Bug screed mounted behind grille. Front fender extensions rubber.</p> | |

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| | Butterfly hood or similar to check levels without having to tilt harness required. | |
| Instrument Panel - Required | Rheostat controlled illumination. Voltmeter. Fuel gauge. Coolant temperature gauge. Oil pressure gauge. Air pressure gauges. Any other gauge necessary for the safe operation of this unit. Warning lights not acceptable. | |
| Frame | Frame shall have a vertical resisting bending moment of 3,200,000 in lbs. minimum Yield strength of 120,000 PSI. R.B.M. (design) Specify. Yield strength. Specify Frame treated with rust protection, Galvanized treated preferred. Integral full front frame extensions shall be provided if required for installation of snow plow harness minimum 20". No trailer hitch plate - filler only on rear frame rail ends. | |
| Options | Front wheel to be equipped with oil lubricated wheel bearings. | |
| Mfg.'s Corrosion Warranty | | |
| Paint | Truck cab to be painted White | |
| SNOW & ICE CONTROL EQUIPMENT | | |
| General | As required by law under the Motor Vehicle Safety Act, the intermediate or final stage manufacturer(s) that shall install the combination spreader/dump body and snowplow equipment onto the incomplete truck chassis shall possess a valid National Safety Mark registered with Transport Canada | |

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| | <p>and will affix their registered National Safety Mark sticker onto the chassis thus certifying the unit as complete.</p> <p>Specify the name of the company that will complete the spreader body installation and affix the registered National Safety Mark number thus certifying the vehicle as complete and the company's registration number. If requested by the City, proof of registration with Transport Canada by the company affixing the National Safety Mark is to be supplied.</p> <p>The snow and ice control equipment supplied under this specification shall be the manufacturer's latest model standard commercial product and shall have demonstrated industry acceptance by having been manufactured and sold in significant numbers to Ontario Municipalities, and shall have been proven in service for the application for at least one (1) year prior to issuing of this tender document.</p> <p>A demonstration of equipment bid may be required. If requested it will be the responsibility of the bidder to arrange this demonstration at the municipality's location within five (5) working days of written notification. All equipment demonstrated will be the exact models offered by the bidder on this tender document.</p> <p>The company that shall complete the installation of the snow plow equipment onto the truck chassis must be currently actively engaged in this business and references must be supplied for at least 3 prior installations completed by this company in the Niagara Region (list references).</p> <p>Where references are requested in this tender document, the information must be completed in full and all references supplied are to be for the models of equipment offered by the bidder</p> | |

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| | <p>in the answered specifications. The design and operation must incorporate safety devices and attachments necessary to ensure that the equipment provided is capable of being operated within maximum safety. The City reserves the right to inspect the equipment at any stage of manufacturing and/or installation of equipment onto the truck chassis and to have any deviations corrected upon request. A final inspection will be completed by the consignee at the time of delivery.</p> | |
| Approved Models | <p>Viking detachable plow and wing harness with hydraulic lock pins Model VCL500HD. Viking one way front plow Model VCL120HSE9. With rubber deflector Viking cable wing harness Model VCL350SCL. Viking VCL144 WHD wing assembly. Viking Proline 1112LW-AL combination U body, aluminum construction. With coal door</p> | |
| Hydraulics & Controls | <p>Two separate hydro control sectional valve stack and in cab feather air controls total of eleven sections. One mounted integral with the rear wing harness and one mounted on the front plow harness. The front mounted valve stack shall include all plow and harness functions and the rear wing harness valve shall include the body and rear wing functions. Must have stainless steel tubing manifold for hydraulics. Stainless steel tubing in lieu of hydraulic hose along the length of chassis frame and for spreader body cross conveyor. Stainless steel tubing to front of chassis for hydraulic pump in lieu of hydraulic hose. Stainless steel tubing to be secured by vibration dampening clamps. All lines entering the truck cab shall be properly sealed.</p> | |

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| | <p>Front mount Dowty tandem dry mode pump Model 2PL1582PL220DVTP. High pressure and return line hydraulic filters MP Filtri. Oil reservoir assembly integral with rear wing harness. Low oil level indicator with in cab warning light. Use chassis supplied OEM switches for lighting functions. Latest Model Dickey-John control point automated spreader control with granular 2 section PWM valve. Must be minimum 3/16 floor mounting plate for Dickey-John console support. Dickey-john pulse sensor externally located on the conveyor shaft motor. Dickey-John 2 section Vickers valve mounted with stainless hardware and isolated via 1/8" Neoprene. Road Watch temperature sensor integrated with Dickey-John spreader control. All hydraulic hose SAE 100 R16 Eaton Aeroquip Bruiser FC735 where stainless tube is not used. Hydraulic couplers Safeway S70 series. All Hydraulic cylinders shall have Hallite seals. Cylinder rod material shall be Stelmi 200 HR .001 chrome induction layer hardened to 1045 ksi. Body hoist cylinder shall be Mailhot CS series 20 ton.</p> | |
| NO LIQUID PRE-WET SYSTEM | | |

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| <p>Additional Requirements</p> | <p>Height adjustable asphalt gate in tailgate with lever operating mechanism offset to curb side. Body front head sides and tailgate all ¼" 5083-H321 aluminum. Body top horizontal rails 4" x 4" x ¼" 5083-H321 aluminum. Body rear corner posts 3/16" 5083-H321 aluminum. Main conveyor ½" 5083-H321 aluminum with UHMW polymer wear plate. Inside of body sides, front head and tailgate fully lined with a high temperature rated poly abrasion liner. One pair of integral body mounted fenders 3/16" 5083-H321 aluminum. One pair of chassis frame mounted aluminum fenders over rear wheels with anti sail mud flaps. Shovel holder located on outside drivers side of body front head. Viking VCL-AT air tarp with mesh cover. Viking fully automated main conveyor chain tensioning system, with remote grease fittings. Removable main conveyor cover Hardox 450 construction with plywood cushion. <u>Left Side and right side spinners with auger cross feed...</u> Valves adjusted accordingly. Two 6" round spinner heated LED spotlights per side.. Lower folding hinged salt chutes for spinner chutes. Anti conning device for spinner disc. Hardwood side board 2" x 10" painted black. Red & white 2" reflective tape along lower body fenders and across lower tailgate. Aeon rubber helper spring installed right side front. MTO cross member located approximately 10" aft of chassis cab. Quick-Tach pockets bolted to front harness</p> | |

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| | <p>drive ears and Quick-Tach plow swivel. Two six inch round LED wing spotlights. Ten inch convex mirror on front post. Front plow shall be equipped with Valley Blade Polar Flex blade with Nose Curb piece. Wing to be equipped with Standard blade with three shoes and curb feeler. Two standard height adjustable plow shoes. ½" x 12" rubber plow deflector. 36" flexible florescent orange plow and wing marker rods. Front plow and wing painted two tone yellow on front face and black on rear. Body finish, unpainted aluminum. All chain 70 proof coil. Grote Ultra Blue Seal LED lighting system. Dual Star high profile beacons amber & blue body cab shield mounted. Grote amber and blue LED strobes 6" oval in upper rear body corner posts. Grote LED 6" oval stop/tails/directional and back up lights in rear body corner posts. Halogen plow lights and directional.</p> <p align="center">Dican Ca SMARTWITNESS KP1S DASH CAMERA SPECIFICATION</p> <p><u>GENERAL SPECIFICATION:</u></p> <p>This unit will be equipped with a SmartWitness KP1S dash camera, part # Di-KP1S designed to provide evidence to protect a driver from many of the issues faced on the roads today; Insurance fraud, staged accidents, false/exaggerated whiplash claims, conflicting reports of actual events, driver offense allegations, (speeding, traffic signal violations, swerving, etc)</p> <p>Additionally recording the following information: Drivers view of the road, Vehicle Location, Impact</p> | |

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| | <p>Force of Accident, Audio, & Driving Style (speed, acceleration, braking, & steering)</p> <p>This system includes HD (720p) Intelligent Accident Camera 2 Ch. w/ GPS speed sensitive 3 axis G-Sensor, Mic, Dual SD card slots, tamper resistant locking enclosure, power harness & 2 x 64GB Micro SD card and reader.</p> <p><u>THE FOLLOWING COLOUR CAMERA SYSTEM and FEATURES SHALL BE SUPPLIED:</u></p> <p>KP1S (Di-KP1S) Dash Camera (Intelligent Accident Camera)</p> <ul style="list-style-type: none"> • 720p HD video resolution capability • Built-in GPS logging (Time/Date, Speed, Location) <ul style="list-style-type: none"> 170-degree wide angle lens Compact and rugged design Resistant to extreme heat and cold • Mounted in an ergonomically appropriate area in the cab • Integrated G-shock sensor • Dual record mode (continuous + event) • Adjustable resolution and frame rate • PC analysis and configuration software • Integrated panic button • Tamper-resistant housing | |

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| | <p style="text-align: center;">Locking SD card cover</p> <ul style="list-style-type: none"> • Alarm I/O triggers <p style="text-align: center;">Delayed camera shutdown</p> <ul style="list-style-type: none"> • Compatible with SmartWitness Rest API 2.0 Compatible with all 3G networks, worldwide • Optional 128GB storage capacity (2 x 64GB SD) • Optional 64GB storage capacity (1 x 64GB SD) Optional 32GB storage capacity (1 x 32GB SD) • Optional 2nd camera for side, rear, cargo or driver view • Optional remote panic button <p style="text-align: center;">Optional audio recording</p> <p style="text-align: center;">Optional cellular service for cloud connectivity</p> <p style="text-align: center;"><u>INSTALLATION SPECIFICATIONS:</u></p> <p>The camera system will be installed to power up on ignition & fused with an inline fuse rated @ 3Amps.</p> <p>For additional specific installation & compatibility requirements please consult the supplier / manufacturer.</p> | |

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| | <p>Quotation Attached: (required only when not included in the main quote)</p> <p><u>ADDITIONAL INFORMATION – RECORDING</u></p> <ul style="list-style-type: none"> • HD 170° Wide Angle Lens on primary Camera • Optional 2nd Camera can be connected • Several 2nd Camera options: weatherproof, infrared, dome, side view, etc. • Dual record mode (continuous + event) • Optional audio recording • Connects directly to vehicle ignition power, automated operation • Tamper-resistant design, key required to access SD card data • GPS data records full time to provide location data, vehicle speed, and accurate time/date • Adjustable resolution & frame rate • Built in G-shock sensor (adjustable sensitivity) • Junction box option for connecting vehicle inputs: left/right turn signals, brakes, reverse, car horn, door opening, taxi meter, emergency lights, etc. • Optional 3G transmission when active SIM card is inserted into KP1S <p><u>PLAYBACK & ANALYSIS</u></p> <ul style="list-style-type: none"> • PC analysis software included • Optional 3G: sends up to 20 second MP4 file immediately after incident • Request HD video on demand from anywhere • Filter data search by time/date, event, vehicle speed, G-Force level • MP4 conversion tool. Data remains watermarked • Privacy masking feature for blurring out | |

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| | <p>faces or license plate numbers</p> <ul style="list-style-type: none"> • Google maps integration for route tracking • Advanced driver behavior analysis & reporting software • Save/print event reports • OTA software & firmware updates • mAPI available for integration with Telematics/AVL software • <p>For further information or questions, contact:</p> <p>DiCAN Inc. Contact: Sales Office 1100 Burloak Drive, Suite 300 Phone: Toll Free: 866-884-7569 Burlington, ON L7L-6B2 Direct Line: 905-937-9652</p> <p>Fax: 905-938-7406 Web: www.dicaninc.com</p> <p>Note: Quotation for equivalent systems must meet and exceed the minimum specifications listed and will be subject to approval by designated staff of the purchaser. When quoting an equivalent system, three references with contact information must be provided and must be included with the request for tender, quote or RFP documents.</p> <p>DICAN SINGLE CAMERA SYSTEM SPECIFICATION</p> <p>General Specification: This unit will be equipped with a single reversing colour camera mounted in a secure, safe, functional area on the unit. The monitor will be mounted in an environmentally and ergonomic appropriate area in the cab for optimal viewing for the operator. Where available and necessary the equipment's reverse trigger circuit</p> | |

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| | <p>will activate the monitor’s reverse signal. Where no reverse trigger is available, the camera system will be installed to power up on ignition.</p> <p><u>THE FOLLOWING COLOUR CAMERA SYSTEM and FEATURES SHALL BE SUPPLIED:</u></p> <p>Veilig Reversing Camera System, model number RD1CV-007LCD, 7”LCD colour monitor, high definition heated colour camera, 15m video power harness and Heavy Duty T Bolt Pedestal Monitor Mounts and to also include Heavy Duty (2) two Axis Swivel Camera Mounting Hardware.</p> <p><u>LCD MONITOR - RDM-LCDS</u> CAMERA WASH SPECIFICATION w/ Manual Air Blow Off</p> | |
| Warranty | | |
| Manuals | Operators and all service manuals must be supplied for one (1) only vehicle of the same type. Body builder plus truck unit. | |

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| Delivery | Upon delivery or immediately thereafter a manufacturer's representative familiar with the equipment will demonstrate the proper operating, maintenance and repair procedures required to meet warranty and full utilization of the equipment. Pre-production meeting to be held at 3200 Stanley Avenue with at least two representatives, at which time any questions on this tender will be answered and as well as some options. <u>Training</u> CD or memory Stick to be supplied. | |
| Delivery Time | | |
| License | City Supplied | |