

REQUEST FOR QUOTATION

Sidewalk Machine

Quote No.

2021-015

Bid Closing: May 27, 2021

Joie de vivre



www.westnipissingouest.ca



West Nipissing Quest

**MUNICIPALITY OF WEST NIPISSING
RFQ SIDEWALK MACHINE**

**SECTION 1
INSTRUCTION TO BIDDERS**

INVITATION TO QUOTE

The Municipality of West Nipissing is seeking to purchase one (1) NEW SIDEWALK MACHINE

Owner: Municipality of West Nipissing
101-225, Holditch Street
Sturgeon Falls, On P2B 1T1
Phone: 705-753-2250
Fax: 705-753-3950

BID SUBMISSION

- 1.0)** Bid documents must be returned in a sealed envelope clearly marked “NEW SIDEWALK MACHINE” complete with bidder’s Company name and Bid reference number to the exterior drop box at the Municipality of West Nipissing town hall, 101-225 Holditch Street, Sturgeon Falls, Ontario P2B 1T1, before 9:30 AM (local time) on May 27, 2021 (the “Official Closing Time”).
- 1.1)** The drop box will be opened immediately after the official closing time. Only bids collected from the drop box will be accepted.
- 1.2)** Bids submitted by facsimile or electronically will not be considered.
- 1.3)** All pages contained in the bid documents form an integral part of this bid.
- 1.4)** Section 3.0 must be completed and submitted in the format provided.
- 1.5)** The lowest or any bid will not necessarily be accepted. The owner may decide, at its sole discretion, that no bid submitted will be accepted and no contract will be awarded pursuant to this bid process. If the owner elects to reject all bids, all bidders will be notified and the owner will not be liable to any bidder in preparing the bid, damages, loss of anticipated profit in connection with the work, or any matter whatsoever.
- 1.6)** Bidders are required to check the Municipality of West Nipissing website for addenda issued before the closing date and time. If the contract administrator determines that an amendment is required to the bid documents, the contract administrator will prepare an addenda and post it to the Municipality of West Nipissing website.
- 1.7)** Partial or incomplete bids will not be considered.
- 1.8)** In case of a corporation that has a corporate seal, the corporate seal shall be affixed to the bid form.

QUESTIONS AND CLARIFICATIONS

- 2.0)** Enquiries, request for explanation, interpretations or clarifications must be submitted by email to sremillard@westnipissing.ca. Only those inquiries submitted by email will be considered. Emails submitted must include the quotation title and quotation reference number.
- 2.1)** Enquiries will be received up to noon local time on May 20, 2021. Enquiries received after the date and time noted will not receive a response.

BID OPENING

- 3.0)** Bids will be opened privately.
- 3.1)** Bid received after the official closing time is considered LATE, and will not be accepted and will be returned unopened to the bidder.

ADJUSTMENT OR WITHDRAWAL OF BIDS

- 4.0)** Adjustment by telephone, facsimile or letter for a bid already received will not be considered. A bidder desiring to make adjustment to a bid must withdraw the submission and/or supersede it with another offer.
- 4.1)** Bidders may withdraw its bid at any time prior to closing provided the withdrawal:
- i) is in the form of a letter and,
 - ii) state the name of the bidder and clearly identifies the bid that is being withdrawn and;
 - iii) is signed by the bidder's duly authorized signing officer;

BID DOCUMENT DISCREPENCIES AND OMISSION

- 5.0)** Bidders are responsible to review the bid documents and to verify they are complete. If the bidder finds discrepancies or omissions from the drawings, specifications and other documents, the bidder should submit a written request for correction to the contract administrator. Any required correction, addition, deletion or revision to the bid documents will be by written addenda to the bid documents issued by the contract administrator by posting to the Municipality of West Nipissing website.



REQUEST OF APPROVED EQUALS AND ALTERNATIVES

- 6.0)** Request for equals to the material, equipment or methods of fabrications specified, should be submitted in writing to the contract administrator. These requests should contain pertinent data such as specifications, construction and operational characteristics, cost savings etc. in order to assist the contract administrator in his decision. Approvals for equals will be in the form of addenda. The contract administrator is not obligated to review and approve equals prior to the bid closing time.

GENERAL INFORMATION FOR BIDDERS

- 7.0)** Municipality's quote form and specification form must be used.
- 7.1)** Dealer must have a service facility within approximately 100 kilometers of municipal yards.
- 7.2)** Delivery date must be on or before December 1, 2021.

QUOTE FORM:

- 1.1)** I/we recognize the right of the owner to reject any and all bids for any reason without explanation and that the lowest bid may not be necessarily be accepted.
- 1.2)** I/we understand that my/our bid will be subject to rejection unless it is prepared in strict accordance with all the requirements of the bid documents.
- 1.3)** All pricing shall be in Canadian funds, all applicable taxes included with the exception of HST which will be considered as extra to the cost
- 1.4)** I/we hereby acknowledge receipt of the following addenda ____ to ____ forming part of the bid documents **(If none have been received, write the word none)**
- 1.5)** Bids shall be irrevocable and shall remain open for acceptance by the owner for a period of 60 calendar days from closing.
- 1.6)** If a discrepancy is found in the bid form between the unit price and the total amount, the unit prices shall be considered as representing the intention of the bid.



MUNICIPALITY OF WEST NIPISSING
RFQ SIDEWALK MACHINE

SECTION 2.0
QUOTE FORM

FORM OF QUOTE

Having carefully examined the specifications as well as the quote document including all addenda and instruction to bidders, I/we, the undersigned, hereby offer to furnish the specified equipment, expeditiously and in the satisfactory manner and accept in full payment the stipulated sum of:

Item A: NEW SIDEWALK MACHINE

Make _____

Model _____

Year _____ \$ _____

Item B – TRACKLESS TRADE IN

Make -2004 Trackless

Model -MT5-T2244 with 60" plow and sander box \$ - (_____)

Total Item A - B \$ _____

Additional Fees/Tax

_____ \$ _____

_____ \$ _____

_____ \$ _____

HST \$ _____

Total Price for Delivery to Municipality of West Nipissing \$ _____

Delivery Time (after date of award): _____ **Days after award notification**



West Nipissing Quest

**MUNICIPALITY OF WEST NIPISSING
RFQ SIDEWALK MACHINE**

**SECTION 2.0
QUOTE FORM**

Signatures:

Vendor full business name:

Vendor full business mailing address:

Phone No: _____ Fax No: _____

Email: _____

Signature: _____

I have the authority to bind this company/corporation

NAME: _____ (Please Print)

TITLE: _____ (Please Print)

Dated at _____ this _____ day of _____, 2021

CORPORATE SEAL:

SPECIFICATIONS

Units must comply with the following specifications in all aspects. Alternative components, which meet the requirement of this specification but are not identified in the specification, must be approved by the Purchaser.

	YES	NO
General		
A four wheel drive articulating, oscillating, rubber tired, diesel powered multi-purpose tractor, designed for year round work, utilizing various attachments shall be supplied		
Tractor shall be no wider than 1.3m (50-1/2"), including fenders and no higher than 2.032 m (80") to top of roof		
Engine shall be a water cooled diesel with min. 74 hp @ 2500 rpm and producing torque of 224 lbs-ft @1600 rpm. Engine to be equipped with anti-idle feature.		
Engine emission standard shall be Tier 4 Final (No Exceptions)		
Tractor shall have compatible mounting system and sufficient hydraulic capability to connect to and operate power angle sweeper, concrete grinder, 51" snow blower, rear- mounted sidewalk spreader, angle snow plow, 5 position folding V-plow and tow behind sander.		
The tractor shall have an anti- bounce ride control system which automatically weighs the front mounted attachment when lifted and calculates, according to speed and shock load, how much the attachment needs to move and over how many milliseconds to counteract the bounce when hitting a bump or pothole, deadening the bounce that normally would follow the initial impact.		
Safety Features		
Automatic safety shut down		
All steel hoods and panels		
Oil and fuel reservoirs located above frame rails		
Brake "ON" warning buzzer when engine is running		
Cab		
Certified R.O.P.S. cab structure – vendor must supply Certification Number		



	YES	NO
Cab and roof construction shall be steel.		
If roof is not steel, a one(1) inch diameter steel tube/pipe shall be mounted around the outside of the roof to protect front, rear and both sides from damage.		
Roof must supply enough protection for water from the roof area not to run inside cab area		
Cab must be fitted with digital dash comprised minimum of a tachometer, speedometer, fuel level, engine coolant temperature, engine oil pressure, engine hour meter, voltmeter, turn signals, 4-way flashers, high/low beams, forward/neutral/reverse and low/high range. Large text warning messages for low coolant level, air breather service required, parking brake engaged, ICON for parked regen required, and seatbelt not fastened.		
Seven (7) speed heater/defroster which includes a minimum of 2 outlets (vents) no higher than 16" above floor level directed at operators feet. (No Exceptions)		
Factory installed A/C unit must provide a digital readout climate control system that includes a heater, pressurizer and defrost systems.		
Branch guard must incorporate four (4) amber and (4) blue LED strobe lights. Amber lights shall be switched separately from the blue lights		
Two (2) outside mirrors must be fold back and One (1) inside rear view mirror		
Three (3) point retractable orange seat belt with hydrostatic interlock to prevent the tractor from moving faster than 5km/hr. unless buckled.		
High Back, fabric covered air ride seat –w/ lumbar support,adjustable left armrest. Large padded right armrest to be fixed for joystick controls.		
Operators seat must be equipped with a seat safety switch which automatically shuts down the following if the operator leaves the seat: <ol style="list-style-type: none"> 1. front PTO 2. the engine if the tractor is not placed into neutral 3. rear hydraulics 		
Neutral Safety Start Switch		
AM/FM Bluetooth radio, cup holder, door pockets, storage tray shall be provided.		
External mounted aerial		
One (1) 12V two-way radio to be installed (Radio Supplied by Municipality)		



	YES	NO
Unit to be equipped with tilt steering, horn, self-cancelling integral R/L signal lever on steering column, 4 way hazard light button, horn button which must be mounted in the center of the steering wheel (no other location is acceptable)		
All glass is to be an approved DOT tinted tempered safety glass		
All glass must be flat for convenience of local replacement in emergency situation		
Cab door shall be equipped with safety strap, gas strut door cylinder		
Slider windows are to be installed on both R/L side of the cab		
Front windshield is to be equipped with a three (3) speed/intermittent wiper blade assembly and windshield washer system		
Rear window glass is to be equipped with a 3-speed intermittent wiper blade assembly and washer system.		
Install in cab and floor a Conaflex sound deadening material		
Install a 2 ½ lb. fire extinguisher and first aid kit. All items are to be mounted in a way as not to interfere with the operator or the safe operation of the tractor		
Supply and install 1 copy of the operator's manual, installed into a clear cab pocket.		
Power Train		
Engine shall be a Tier 4 Final water cooled diesel with min. 74 hp @ 2500 rpm and producing torque of 224 lbs-ft @1600 rpm		
Engine to be equipped with anti- idle feature.		
Unit must be equipped with an intake grid heater for cold starting. NO ETHER system will be allowed- no exception		
Unit shall be equipped with a block heater		
Equipped with Air Breather Warning - Digital Dash text and buzzer		
Left side hood shall have access doors for daily fluid checks, battery, filters, battery disconnect switch and main breakers. The top hood shall open independently. It must be hinged and be held open by a support rod		
Quick easy access to oil dipstick is required without the removal of any engine compartment panel		
A wire protection guard must enclose the engine fan		
Complete rear grill shall hinge open for easy access to clean coolers and radiator. A brush shall be supplied and secured beside the coolers and radiator		
There shall be a hinged door for access to the radiator fill spout		



	YES	NO
Engine shall be water-cooled.		
Two coolers are to be supplied for cooling hydraulic oil and engine coolant. The coolers are to be bolted together to form one unit and mounted in an upright position between the rear rails of the tractor for protection. The cooler access door shall be hinged for easy access for either service or cleaning		
The tractor shall be propelled by a hydrostatic transmission and controlled by a single ELECTRONIC foot pedal		
All attachment functions and forward/reverse are to be controlled by a SINGLE joystick. The joystick must automatically program itself, by means of a 3 position selector switch to the attachment that is mounted. 3 float position switches to have additional LED indicator lights. Joystick allows lifting and lowering of attachment while 2 other function controls remain live		
The tractor shall have a 2 speed mechanical transmission which provides speed ranges of: Low range 0 – 12 km / hr. High range 0 – 32 km / hr.		
Specify type of gears in mechanical transmission Helical _____ Spur _____		
The front axle shall have a rocker switch activated locking differential with safety feature to not engage and to disengage automatically.		
State gear ratio of deep reduction transmission		
The Hi/Low transmission shift lever located inside the cab must have a neutral position allowing the tractor to be towed without danger of damaging the hydrostatic transmission		
Tractor shall have a backup alarm activated by the forward /neutral /reverse switch.		
Axles shall be Dana style model 60 full float with track-lock differentials front and rear manufactured in Ontario for parts availability.		
Axles to be able to accommodate the mounting of eight (8) dual loader lugs, four (4) winter radial tires or four (4) summer turf tires		
There shall be no less than 8 ½ inch dia. bolts securing each axle housing to the chassis.		
Each axle shaft shall have a minimum of 8 wheel studs. (No Exceptions)		



	YES	NO
Automatic self-reversing engine fan system.		
PTO/Hydraulic System		
PTO drives system to be mechanical by way of a clutch. 11-1/2" over-centre type. Must be electric over hydraulic actuation with indicator light. Actuation by lever is not be considered		
The engagement speed of the PTO clutch shall be controlled electronically by the tractor ECU		
Engine PTO is to be 1-3/8" diameter, 6 spline. 540 RPM @ 2160 engine RPM. Minimum 65 pto hp required.		
Access to the PTO shaft shear bolt shall be from inside the cab. This is also where the PTO shaft is connected when attaching an implement. Having to reach down in front of the tractor to connect the PTO shaft or change a shear bolt will not be accepted.		
The hydraulic system shall have a thermostatically controlled bypass valve for cold weather operation. State bypass temperature _____		
The main hydraulic pump shall be driven from the engine timing case and produce a minimum of 20 gpm.		
6 front hydraulic couplers (3 pair) are to be supplied for operating the control features on various attachments		
In addition to the 6 couplers for operational controls, there shall be 1 pair of HIGH VOLUME front couplers to power attachments requiring approximately 16 gpm		
There shall also be 2 additional ports located at the front of the cab for 2nd high flow circuit		
Rear of tractor shall have 1 pair of hydraulic couplers with an output of 16 gpm.		
Hydraulic couplers must be colour coded, matching joystick/controls colour coded membrane switches		
All Hydraulic Couplers must be pressure relief type		
All hydraulic hoses to have NPT, SAE straight thread or SAE split flange fittings (no metric)		
All hydraulic hoses must be wrapped in critical areas.		
The hydraulic circuits, which power the hydraulic driven mower wings, must kick off automatically when wings are raised to a pre-determined angle. When lowered, they must be re-started. This feature must be designed into the tractor for future additional attachment purchases.		



	YES	NO
Unit shall be equipped with an auxiliary 14 gpm hydraulic gear pump and to be driven only when the PTO clutch is engaged		
Unit shall be equipped with a Low Hydraulic Oil warning with Digital Dash warning text and buzzer		
The tractor is to be equipped with a hydraulic Auto/Run switch which controls the rear hydraulic couplers when connected to a sander. In Auto mode the rear hydraulics shall turn off automatically when the tractor is stopped or reversed preventing the sander from dispensing materials. Hydraulic flow to the sander will automatically resume once the tractor is in a forward motion. Run mode allows for continuous dispensing of sander materials including when the tractor is parked to allow sander to be emptied		
Braking System		
Tractor shall have hydrostatic dynamic braking, hydraulic service brakes, and mechanically actuated emergency / parking brakes.		
Parking brake is to be applied by way of an adjustable parking brake lever. It must be able to apply the brakes mechanically in the event that the hydraulic system failure		
Parking brake warning must be Digital Dash text and buzzer when applied.		
Electrical System		
Tractor shall have a 12 V, negative ground system with a 950 – 1000 CCA group 31 battery, 200 amp alternator, and main breaker switch protection		
Due to the complexity of the wiring systems in tractors with Tier 4 engine management systems and other electronic management systems, the following specifications have to be complied with to assist in efficient diagnostic and electrical repairs over the life of the tractor		
Wiring harnesses must be professionally manufactured with terminals which are machine crimped to ISO standards		
On both ends of all harness wires there must be letter location codes and wire numbers printed permanently on the wire insulation. Codes and numbers must be shown on all parts manual exploded views and wiring schematic drawings and charts		
	YES	NO
All single wires which are not part of a harness must have a part number permanently printed on the insulation.		
All fuses are to be mini blade type and must be contained within an IP67		



watertight enclosure.		
All harness plug connectors shall be standard Packard weatherproof. Bulkhead connectors must be twist lock type		
There shall be 4 headlights and 1 backup light. All 5 lights are to be halogen adjustable and Identical. Front headlights shall have metal guards, screen style guards not accepted.		
There shall be signal lights, 4 way flashers and shock proof rubber mounted tail lights all are to be LED.		
Cab to have an interior dome light		
The tractor shall be equipped with Trackless tow behind sander package. Including all controller wiring, braking and hydraulic hook ups including pintle hitch as required.		
Steering		
Must be equipped with articulated steering, must be able to turn 35 degrees each way		
Must be equipped with an Orbitrol hydraulic motor, hydraulic steering cylinder, tilt steering (in the up most position the column must be 80 degrees to the cab floor)		
Steering column must include hazard button, signal lever center mount horn		
Unit must be equipped with high strength spherical bearings for all steering and pivot pins, all bearings and pins MUST be greaseable		
Chassis		
The tractor shall consist of 4 main structures, front cab/frame , center frame, mid frame and rear frame		
Two greaseable pivot pins shall connect the mid frame to the center frame through hardened greaseable spherical bearings		
The mid frame must be removable from the rear frame to allow easier removal of drive train components such as PTO clutch or pump drive assembly from the bell housing		
Dimensions and Weight: (State actual) Overall Vehicle Dry Weight (KG)_____		
Overall length including rear bumper (149.5") _____		
Top height of cab (80.0") _____		
Track width with winter tires (49.5") _____		
Overall width (50.5") _____		
Inside turning radius (90.0) _____		



	YES	NO
Implement Hitches		
Tractor shall be supplied with a front quick hitch system. Implement height shall be controlled by two double acting hydraulic cylinders which are operated from the joystick/controls. Spring load lift latches hold the implement frame in place		
Specify details of hitch	Specify	
An externally mounted lift cylinder switch shall be supplied to control the lift cylinders of the tractor when connecting attachments. The switch is to be located between the front 2 lift cylinders and shall operate the lift cylinders at 25% flow rate.		
Fuel Tank		
The fuel tank capacity shall be not less than .90 LT. per gross engine HP.		
Equipped with electric switch for Fuel Saver Mode		
If tractor is not equipped with a fuel saver mode function reducing fuel consumption by regulating the engine RPM to the hydrostatic pump stroke, then fuel tank capacity must be not less than 1.25 LT per gross engine HP		
State actual fuel tank capacity		
Specify the number of hours the unit can operate on a tank of fuel when in fuel saver mode	Specify	
Single fuel tank only. Add on auxiliary tanks not acceptable		
Special Tooling		
Tractor to be equipped with onboard diagnostics. Digital dash display shall be the means to access all tractor fault codes and aid in trouble shooting		
All updates must be supplied within 10 business days of any and all changes, for the entire life of the unit while the equipment is owned and operated by the Municipality of West Nipissing		
The Municipality of West Nipissing will have access to the vendors Web site to down load any information for the unit.		
ACE GPS with Sander on/off and Plow up/down inputs installed (ACE components to be supplied by Municipality)		



	YES	NO
Tire Size		
Tractor to come equipped with LT 245/75-R16 radial tires. Mud and snow tread. Rims to suit. 8 studs per wheel.		
Tractor to come equipped with one spare tire assembly (tire and rim)		
Paint and Finish		
All steel fabricated parts including the cab and all frames are to be prepped in a 4-stage phosphate wash prior to paint. All parts are to receive a 2-part epoxy primer with rust inhibitor. The top coat is to be a 2-part poly urethane automotive quality finish which is oven baked.		
The following parts shall be zinc plated: <ul style="list-style-type: none"> • Lift latches, lift latch levers, linkages and secondary locks. • Battery hold down straps and bolts Hood support rod • Fender / side hood mounting brackets • Door striker plate • Hi / low range shifter gate Misc. small mounting brackets 		
Operability and Ergonomics		
Single electronic joystick control with Forward/Neutral/Reverse switch		
14 gpm. gear pump and valve for extra auxiliary equipment		
Air conditioning with branch guard		
Branch guard to incorporate a total of eight (8) oval strobe lights 4 amber and 4 blue. One colour per side.		
OEM reverse camera to be installed utilizing the 7" digital dash display as reverse camera screen. Camera shall be mounted in the rear of the engine compartment top hood for protection		
Tractor shall be equipped with an electronic switch for Work Mode and Fuel Saver Mode. Fuel Saver Mode reduces fuel consumption by up to 3 litres per hour when driving, plowing or any other operation which does not require a constant engine RPM.		
There shall be an in cab rotary switch to adjust the amount of material being spread by the rear sand/salt spreader to reduce cost		
Manuals		
One operators manual - attached to machine plus one additional supplied loose.		
One (1) complete set of parts and service manuals to be supplied at time of delivery. C/D's acceptable or secured access to manufacturer's website		

SPECIFICATIONS - ATTACHMENTS

Units must comply with the following specifications in all aspects. Alternative components, which meet the requirement of this specification but are not identified in the specification, must be approved by the Purchaser

	YES	NO
60" Angle Snow Plow		
The blade length shall be 60"		
The blade height shall be 32".		
The cutting edge shall be minimum ½ " x 6" hardened steel, and be reversible and replaceable.		
The blade shall be power angling to 30 degrees in either direction by 2 single acting cylinders.		
A cushion valve must be supplied to help protect plow if an object is struck.		
The plow must incorporate two trip mechanisms. The complete plow must be able to trip 35° and the cutting edge trip 40°.		
There shall be 4 extension trip springs for the moldboard trip. The springs shall be 2" diameter.		
There shall be 2 compression trip springs for the cutting edge trip. The springs shall be 5" diameter x .625 diameter wire.		
The plow must be supported by a retractable leg which allows the tractor to drive into the plow attaching frame.		
The plow must be painted the same colour as the tractor.		
The plow must be manufactured by the same company as the tractor		
The weight of the complete plow assembly must be approximately 685 lbs. or 311 kg	Specify	
Cutting edge trip angle (Degrees)	Specify	
Moldboard trip angle (degrees)	Specify	
	YES	NO
60" Snow Blower		
Snow Blower shall be manufacturer specific		
ALL chute controls (raising/lowering/rotation/deflector) shall be hydraulic and operated from inside cab		
The blower shall be front mount PTO driven with shear pin protection		
Throat opening 60" by 38"		



**MUNICIPALITY OF WEST NIPISSING
RFQ SIDEWALK MACHINE**

**SECTION 3.0 RFQ
SPECIFICATIONS**

	YES	NO
Body end plates 3/8" steel		
2 - Spiral Type 13" diameter augers		
6" by 24" by 3 blades impeller		
Impeller housing shall have a two (2) piece replaceable protective liner		
The chute rotation shall have bearing system		
The chute rotation shall be via hydraulic motor and direct drive		
Cutting edge shall be 1/2" by 6" hardened steel and reversible		
Cutting edge height adjusted by shoe brackets		
The sidewalk chute shall have a minimum throat clearance of 77"		
Blower net weight : _____ Kilograms		
Blower shall be compatible to existing municipal equipment		



The unit must be manufacturer’s most current advertised standard production model, for the model year in which it will be delivered and must comply with all Federal and Provincial legislation in effect at the time of delivery. A total of one (1) unit will be required.

This specification covers only the major details of a unit. It is the supplier’s responsibility to deliver a fully equipped unit with compatible components to provide dependable, efficient service.

The equipment shall include the standard manufacturer’s warranty. **A copy of the warranty shall be included with the tender documents.** The successful bidder shall supply a fully executed manufacturer’s warranty on the equipment.

Warranty shall be effective from the customer’s in service date.

Warranty shall be FOB the customer’s yard in Sturgeon Falls, Ontario.

Any additional comments or clarifications (attach additional sheets if required)
