



## INVITATION TO BID

### FINANCE DEPARTMENT

ELLEN L. SANBORN  
Finance Director

COLLEEN C. SELBERG  
Purchasing Agent

Bid #11-22

### **ONE (1) SIDEWALK TRACTOR WITH SANDER, V-BLADE, STRAIGHT BLADE AND RIBBON BLOWER**

Sealed bids for furnishing a Sidewalk Tractor to the City of South Portland, Maine as specified below, in the attached specifications and proposal, will be received by the City Purchasing Agent, 25 Cottage Road, South Portland, Maine 04106, until 2:30 pm., Thursday, August 12, 2021 at which time, they will be publicly opened and read aloud. Proposals received after that date and time will not be considered.

Bids shall be submitted on the attached bid form in sealed envelopes, plainly marked "Bid #11-22 Sidewalk Tractor" and shall be addressed to the Purchasing Agent at the above address.

Delivery to be made upon receipt of purchase order and shall be F.O.B., Public Works Department, 929 Highland Avenue, South Portland, Maine.

All equipment offered on this bid should be new and the latest type available. Bidder will state in his bid the name and model number of the equipment he is offering and will include with his bid a catalog or brochure marked to indicate the standard factory equipment of the model on which he is bidding.

**Bidder must attach a separate sheet to his bid listing any deviation from the minimum specifications shown. If no attachment is provided, it will be assumed that the item being bid meets the minimum specifications.**

If the equipment offered by a bidder under the attached specifications meets the specifications except for minor factors or reasonably small amounts in dimensions, and if it shall be determined by the City that these minor variations from the specifications do not prevent the equipment being bid from performing as satisfactorily or from being as good as equipment fully meeting these specifications, then these minor variations from the specifications may be waived by the City, if it deems it to be to its advantage, and the equipment with the waived variations in specifications will be accepted as fully meeting these specifications.

Bid award will be based on the low bidder meeting specifications. It is the City's intent to award to one vendor. The City reserves the right to award any or all of the listed accessories.

Since a prompt delivery is required, delivery time as well as price may be a factor in determining the award of this bid.

Price shall include a 14-day plate and State of Maine Certificate of Title or Certificate of Origin, which shall be made out to the City of South Portland, Maine and mailed to the Purchasing Agent, 25 Cottage Road, South Portland, Me 04106. A copy of the title application is to be delivered with each vehicle.

There shall be, within the Greater Portland area, a repair service which shall maintain a stock of spare parts for any make and model of any vehicle that a bidder offers in the proposal

If your business is a foreign corporation, limited liability company, limited partnership and or limited liability partnership, you must include with your bid, proof from the Maine Secretary of State's office that you are qualified to do business in the State of Maine.

It is the custom of the City of South Portland to pay its bills within 20 to 30 days following delivery of and receipt of bills for all items covered by the purchase order. In submitting bids under attached specifications, bidders should take into consideration all discounts, both trade and time, allowed in accordance with the above payment policy. All bidders should quote net prices, therefore, exclusive of all Federal Excise Taxes and Sales Taxes.

The City of South Portland reserves the right to waive all informalities in bids, to accept any bid or any portion thereof, or to reject any or all bids should it be deemed in its best interest to do so. Except as otherwise required by law or as specifically provided to the contrary herein, the City shall govern the award of this bid's purchasing ordinance.

Colleen C. Selberg  
Purchasing Agent

Mailing address: P.O. Box 9422, South Portland, ME 04116-9422  
Telephone (207) 767-3201 Fax (207) 767-7620

City of South Portland  
PUBLIC WORKS DEPARTMENT  
Solicitation of Bids  
**ONE (1) SIDEWALK TRACTOR WITH SANDER,  
V-BLADE, STRAIGHT BLADE AND RIBBON BLOWER**

This specification is intended to describe a Sidewalk Tractor to be used for various functions in the Public Works Department. This Sidewalk Tractor will be a regular production model for which published specifications are available. Modifications of the vehicle to meet operational requirements of this specification shall be limited to the manufacturers published and optional standards.

Bidders shall list and explain in writing any and all deviations from these specifications. Bidders shall provide sufficient detail and proof needed to assist the city in fully evaluating compliance with detailed specifications. Failure to do so may result in rejection of the bid in its entirety.

*General Specifications*

These Specifications are intended to describe a Sidewalk Tractor, and is to conform to all EPA and DOT regulations in effect at the time of delivery. The vehicle shall be equipped with all standard equipment, components, and safety features necessary for operation and normally supplied, even if not identified in specifications. The equipment shall have full manufacturer's preparation, title, and be ready for service upon delivery. The equipment shall come with a full warranty and option of extended warranty.

The equipment will be delivered with all the proper paperwork to insure and register the equipment in a timely manner.

**ONE (1) SIDEWALK TRACTOR WITH SANDER,  
V-BLADE, STRAIGHT BLADE  
AND RIBBON BLOWER  
SPECIFICATIONS**

**Mandatory Specifications**

- |        |       |   |
|--------|-------|---|
| yes___ | no___ | Four wheel drive articulating, oscillating, rubber tired, diesel powered, and multi-purpose Tractor, designed for year round work, utilizing various attachments shall be supplied. |
| yes___ | no___ | Tractor shall be no wider than 50-1/2" (1.3m), including fenders.   |
| yes___ | no___ | Engine shall have a minimum displacement of 3.6L. Engine shall be tier 4 Final emission certified and bear label so stating. Tractor should be 120HP @2300RPM. No exceptions.       |
| yes___ | no___ | Tractor shall have sufficient hydraulic capability to power manufacturers own hydraulically driven attachments.   |
| yes___ | no___ | Tractor shall have a mechanically driven front PTO or the ability to drive attachments on the Front. PTO Clutch must be multi disc wet type clutch.                                 |

**Safety**

- |        |       |   |
|--------|-------|---|
| yes___ | no___ | A seat safety switch must automatically shut down the PTO shaft and shut off any hydraulically powered attachments if the operator leaves the driver's seat (no exception allowed).   |
| yes___ | no___ | Tractor must have a hydraulic brake at each wheel. There must also be a mechanical parking brake that can be applied if hydraulic brakes fail.  |
| yes___ | no___ | Cab must be ROPS certified and have a metal certification tag attached to the structure (no exception allowed).   |
| yes___ | no___ | A wire protection guard must enclose the engine fan.  |
| yes___ | no___ | The tractor shall have flashing LED amber and/or blue lights mounted above the roof line, two on each side for full, unobstructed 360-degree visibility.  |
| yes___ | no___ | Tractor shall have a backup alarm activated by the forward / neutral / reverse switch.  |
| yes___ | no___ | The tractor shall have a backup camera  |
| yes___ | no___ | The tractor shall have Safety, Danger, Caution and Pinch Point decals as described in the labelling Section of this specification (no exception allowed).   |
| yes___ | no___ | For hooking up attachments, the PTO shaft of the Attachment must be supported by a stand on the push frame so that no one is required to hold up the Shaft while the operator drives the tractor forward into the attachment. |

**Dimensions and Weights**

Dimensions are not to exceed the following:

Overall length (without attachments)	154.5"	Specify _____
Height to top of cab roof (with A/C)	83.1"	Specify _____
Height to top of cab roof (without A/C)	83.1"	Specify _____
Overall width (outside tire tread)	50.1"	Specify _____
Minimum wheel base	83"	Specify _____
Maximum inside turning radius	90"	Specify _____
Minimum weight	6500lbs	Specify _____

### Engine Compartment

- yes\_\_\_ no\_\_\_ The top hood, two side hood panels, and rear grill are to be easily removable without the use of any tools. Only latches and quarter turn fasteners need to be released before lifting off the hoods and grills.
- yes\_\_\_ no\_\_\_ There shall be an air breather pre-cleaner permanently attached to the top hood.
- yes\_\_\_ no\_\_\_ The left side must have one panel for access to daily fluid checks, battery, filters, battery disconnect switch and main breakers.
- yes\_\_\_ no\_\_\_ There shall be a hinged door for access to the radiator fill spout.

### Cooling

- yes\_\_\_ no\_\_\_ Engine shall be water cooled by means of an 18-inch (minimum) diameter fan and a radiator, which automatically reverses every few minutes to prevent dirt, salt and grass clippings from building up on the oil cooler and radiator fins.
- yes\_\_\_ no\_\_\_ A cooler is to be supplied for cooling charge air, hydraulic oil, and engine coolant.

### PTO

- yes\_\_\_ no\_\_\_ PTO drive system to be mechanical by way of a clutch. Must be electric over hydraulic actuation with indicator light.
- yes\_\_\_ no\_\_\_ PTO "ON" function shall have an interlock system tied to a seat switch and the engine throttle. In order to activate the PTO, the operator must be present in the seat and the engine throttle must be set at idle. In order to minimize shock loading and damage to the PTO system, systems that allow activation of the PTO at engine speeds above idle are unacceptable.
- yes\_\_\_ no\_\_\_ The PTO function shall include an interlock circuit that shuts off the PTO after the operator leaves the seat. No exceptions.
- yes\_\_\_ no\_\_\_ PTO shall have an indicator light that shows when the PTO is engaged

### Implement Hitches

- yes\_\_\_ no\_\_\_ Tractor shall be supplied with a front quick hitch system. Implement height shall be controlled by two double acting hydraulic cylinders which are operated by the four spool lever valves.

*Please specify details of hitch* \_\_\_\_\_

- yes\_\_\_ no\_\_\_ Must be capable of attaching existing Trackless attachments already owned by the municipality without modification.

### Transmission

yes\_\_\_ no\_\_\_ The tractor shall be propelled by a hydrostatic transmission and controlled by a single Hydraulic foot pedal. The hydraulic pedal controls the hydrostatic transmission. throttle lever controls the engine RPM allowing full RPM to power the PTO shaft to run the attachment

Please specify the complete details of system offered \_\_\_\_\_

yes\_\_\_ no\_\_\_ The tractor shall consume no more than 92 liters of fuel to plow sidewalks for 12 – 15 hour.

yes\_\_\_ no\_\_\_ The tractor can be towed by releasing the pressure on the hydrostatic pump and manually releasing the SAHR Brake.

### Braking Systems

yes\_\_\_ no\_\_\_ There shall be a minimum of three braking systems: hydrostatic, service and parking. Service brakes shall be enclosed wet disc type.

yes\_\_\_ no\_\_\_ Parking brake is to be applied by switch which is a SAHR brake.

yes\_\_\_ no\_\_\_ The hydrostatic braking is to be programmed more aggressive when service brake pedal applied.

yes\_\_\_ no\_\_\_ The parking brake must sound a warning buzzer when applied and a warning message must appear on the LED dash display.

### Wheels/Tires

yes\_\_\_ no\_\_\_ Tires shall be LT 245/75R x 16 winter radial mounted on heavy duty wheels with no less than 6 studs.

Please state number of studs per wheel \_\_\_\_\_

### Ride Control

yes\_\_\_ no\_\_\_ 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.

### Hydraulic Systems

yes\_\_\_ no\_\_\_ The hydraulic gear pump shall be driven by the engine and produce a minimum of 20 gpm.

yes\_\_\_ no\_\_\_ Tractor shall be supplied with levers. No exceptions

- yes\_\_\_ no\_\_\_ Tractor shall have a low hydraulic oil warning system.
- yes\_\_\_ no\_\_\_ In addition to the 7 couplers for operational controls, there shall be 4 (2 pair) of HIGH VOLUME front couplers to power hydraulically driven attachments. They can power 2 separate attachments such as mower wings, or be combined for attachments requiring higher flows. One switch engages the left pair and a second switch engages the right pair. Switches for the hydraulic circuits are to be located to the left and right of the front PTO engagement switch.
- yes\_\_\_ no\_\_\_ Rear of tractor shall have 1 pair of hydraulic couplers with an output of 16 gpm.
- yes\_\_\_ no\_\_\_ Hydraulic couplers must be color coded
- yes\_\_\_ no\_\_\_ All hydraulic hoses to have NPT, SAE straight thread or SAE split flange fittings. (no metric)
- yes\_\_\_ no\_\_\_ Hydraulic oil filter shall be cartridge type, mounted at highest point in hydraulic system for dry changes. Spin on filters not accepted.

### Electrical

- yes\_\_\_ no\_\_\_ Shall be 12 volt DC negative ground with a minimum 1100 CCA battery, 120 amp alternator, protected by a main breaker switch, with all breakers, fuses and wiring sized appropriately. The system must include a lockable master electrical disconnect switch.
- yes\_\_\_ no\_\_\_ There shall be a lockout battery switch inside the Engine compartment.
- yes\_\_\_ no\_\_\_ There shall be a 4-prong trailer plug in rear panel for powering the water tank spray system, brine pump or other electrical components other than lighting.
- yes\_\_\_ no\_\_\_ Backup camera when in reverse
- yes\_\_\_ no\_\_\_ Tachometer indicating engine RPM and PTO RPM
- yes\_\_\_ no\_\_\_ Speedometer, Odometer, and hour meter
- yes\_\_\_ no\_\_\_ Coolant temperature
- yes\_\_\_ no\_\_\_ Engine oil pressure
- yes\_\_\_ no\_\_\_ Hydraulic oil temperature
- yes\_\_\_ no\_\_\_ Voltmeter
- yes\_\_\_ no\_\_\_ Fuel level
- yes\_\_\_ no\_\_\_ Turn signals, 4-way flashers

- yes\_\_\_ no\_\_\_ High/low beams
- yes\_\_\_ no\_\_\_ Forward / Reverse
- yes\_\_\_ no\_\_\_ Low, Intermediate, and High Range
- yes\_\_\_ no\_\_\_ Large text warning messages for Low hydraulic oil, Low coolant level, Air breather service required, parking brake engaged, Parked regen required, and Seat belt ICON.
- yes\_\_\_ no\_\_\_ Wiring harnesses must be professionally manufactured with terminals which are machine crimped to ISO standards.
- yes\_\_\_ no\_\_\_ Codes and numbers must be shown on all parts manual exploded views and wiring schematic drawings and charts.
- yes\_\_\_ no\_\_\_ All fuses are to be mini blade type and must be contained within an IP67 watertight enclosure.
- yes\_\_\_ no\_\_\_ All harness plug connectors shall be standard packard weatherproof. Bulkhead connector's must be twist lock type.

### Lighting

- yes\_\_\_ no\_\_\_ There shall be 4 headlights and 1 backup light. All 5 lights are to be adjustable, halogen and identical.
- yes\_\_\_ no\_\_\_ There shall be LED signal lights, 4 way flashers, and shock proof rubber mounted LED tail lights.
- yes\_\_\_ no\_\_\_ There shall be 8 flush mounted LED flashing lights, 2 on each side of the branch guard for 360 degree visibility.
- yes\_\_\_ no\_\_\_ There shall be an interior dome light
- yes\_\_\_ no\_\_\_ Signal lights must self-cancel.

### CAB

The cab shall have the following:

- yes\_\_\_ no\_\_\_ HVAC system to be controlled by digital climate control LED screen which allows operator to select heat, AC or defrost and set desired temperature. A cab pressurizer is also mandatory
- yes\_\_\_ no\_\_\_ Heater must include a minimum of 2 outlets no higher than 16 inches above floor level directed at operator's feet
- yes\_\_\_ no\_\_\_ Front intermittent 3 speed pantograph wiper and washer
- yes\_\_\_ no\_\_\_ Inside rear view mirror and backup camera
- yes\_\_\_ no\_\_\_ Two outside vibration free mirrors. When approaching an obstacle such as a sign post or when working in a narrow section next to a wall the operator must be able to fold mirrors in and back out again without exiting cab.



- yes\_\_\_ no\_\_\_ 3 point seat belt including should harness (must be retractable type and orange).
- yes\_\_\_ no\_\_\_ AM / FM / CD stereo with MP3 jack, dual speakers, and Bluetooth.
- yes\_\_\_ no\_\_\_ Steel door. All glass door not acceptable.
- yes\_\_\_ no\_\_\_ Flush mounted door handle
- yes\_\_\_ no\_\_\_ Gas strut door closer
- yes\_\_\_ no\_\_\_ Door safety strap
- yes\_\_\_ no\_\_\_ Tilt steering column in the upper most position the column must be approximately 80 degrees to the floor for easy entry and exit cab
- yes\_\_\_ no\_\_\_ Steel fenders – 10 gauge or heavier
- yes\_\_\_ no\_\_\_ DOT approved, tinted, tempered safety glass for all windows
- yes\_\_\_ no\_\_\_ All glass must be FLAT for convenience of local replacement in emergency situations
- yes\_\_\_ no\_\_\_ Side windows shall be slider type contained within an aluminum frame and lockable
- yes\_\_\_ no\_\_\_ 1 and 2 inch thick open cell conasorb with perforated vinyl facing for sound deadening
- yes\_\_\_ no\_\_\_ Sound barrier floor matting with 2 lb. /sq. ft. heavy-duty vinyl wear surface and 3/8 inch thick closed cell PVC/nitrile rubber foam layer.
- yes\_\_\_ no\_\_\_ The cab shall be “ROPS” certified and bear a metal certification label so stating. An engineering ROPS test report is required for verification and to keep on file for WSIB, Ministry of Labor and OSHA audits.
- yes\_\_\_ no\_\_\_ The cab must be constructed of steel sheet, plate, HSS tubing and ROPS tubing.
- yes\_\_\_ no\_\_\_ Shall have an air ride high back fabric covered seat with adjustable left armrest, large padded right armrest.
- yes\_\_\_ no\_\_\_ There shall be a horn button which must be mounted in the center of the steering wheel (no other location acceptable).

### Diagnostics

- yes\_\_\_ no\_\_\_ The tractor shall have an on board diagnostic system which constantly monitors and self-diagnoses all electrical and electronic components, hydrostatics, hydraulic valves, switches, sensors and the entire engine ECU. Any fault that occurs is diagnosed and sent to the message center on the digital dash screen where it can be retrieved by clicking on the message envelope ICON. All messages are recorded permanently and archived. The message center also allows access to all ECUs directly. All diagnostics can be done without having to plug in a laptop or any other device.

### **Attachments**

- 51" Non-oscillating Rigged V-Plow
- 60" Straight Plow
- 50" Ribbon Blower
- 5/8 Yard Drop Sander

### **Fuel Tank**

Tractor shall have a single fuel tank with no less than 92 liters.

### **Warranty**

- Full manufacturer's warranty.
- Manufacturer's warranty shall be 12 months or 600 hours
- Provide information and costs associated with any extended warranties that might be available

### **Training**

Training shall be available at no charge. The training shall include classroom sessions, hands on repair techniques and diagnostic training. The training shall also be available several times per year at no charge, for re-training or new technicians.

### **Safety**

The following labels and decals must present on tractor upon delivery:

- Pinch point decals
- Danger – rotating shaft decal
- Danger – Fan decal
- Diesel fuel only decal on fuel reservoir (minimum .75" high letters)
- Hydraulic oil only decal on oil reservoir (minimum .75" high letters)
- Decals for adjustment procedures
- Grease chart decal under top hood. Decal must include illustrations for showing grease points.
- Metal tag - ROPS Certification
- Metal tag - Serial number / model / model year

### **RADIO**

Motorola M1225 4-channel mobile radio set up with frequencies used by the department with Antennex B132S antenna shall be installed by the City's vendor and billed to the supplier of the tractor (Whomever is awarded the bid).

### **Manuals**

The following hardcopy manuals with CDs, printed in English, must be furnished at no extra charge at the time of delivery.

- An operator's manual must be supplied in the tractors cab.
- The hardcopy manual will provide all information required to operate the tractor and include maintenance information, safety precautions, lubrication diagrams, etc. All pictures must be in full color.
- A hardcopy parts manual including maintenance and operators instructions shall be supplied. Wiring and hydraulic schematics must be in full color. The manual must have detailed information regarding controls, operating tips, safety precautions, attachment mounting, attachment hose hook up color coding, grease point illustrations, lubrication chart, etc. The manual must include a CD copy inserted into a protective sleeve in the manual cover.
- A hardcopy service manual shall be supplied at time of delivery. The manual must include diagnostic, repair and adjustment information for main drivetrain components. All photo pictures that assist in overhaul procedures must be in full color. Wiring and hydraulic schematics must be in full color. Other items required include a torque specification page, fault logic trouble shooting, lifting point and jack stand placement illustrations. The manual must include a CD copy inserted into a plastic protective sleeve in the manual cover.

#### **MISCELLANOUS**

- The machine shall be delivered with all proper paperwork so the City may get it insured and registered immediately.
- Time of delivery could be a factor in determining the successful bidder

**ONE (1) SIDEWALK TRACTOR WITH SANDER,  
V-BLADE, STRAIGHT BLADE AND RIBBON BLOWER  
BID PROPOSAL SHEET**

**Bid Price with V-Blade, Straight Blade, Sander and Ribbon Blower** \$ \_\_\_\_\_

Year, Make, & Model # \_\_\_\_\_

Color \_\_\_\_\_ Odometer Reading \_\_\_\_\_

Warranty \_\_\_\_\_

\_\_\_\_\_

Delivery Time \_\_\_\_\_

**OPTIONAL ADD ONS**

Flail Mower \$ \_\_\_\_\_

Signed: \_\_\_\_\_  
(Corporation, Firm or Company)

By: \_\_\_\_\_  
(Officer, Authorized Individual or Owner)

Title: \_\_\_\_\_

Mailing Address (including Zip Code): \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email: \_\_\_\_\_

Note: Bids must bear the handwritten signature of a duly authorized member or employee of the organization making the bid.