



Public Works Department

September 13, 2023

Please quote prices on the following articles F.O.B. Brewer Public Works Department, Brewer, Maine. Quotations will close at 2:00 P.M. on Wednesday, September 27, 2023. Bids must be delivered to the Public Works Purchaser, 221 Green Point Rd, Brewer, Maine 04412 before the date and time appointed.

We reserve the right to accept all, part, or decline the whole bid. Bids will not receive consideration unless submitted strictly in accordance with the following instructions. **Mark Envelopes Plainly – BID FOR STREET SWEEPER.**

1. Quotations will be to furnish for the City of Brewer a new street sweeper according to the following and/or attached specifications.
2. Quotations shall be exclusive of all Federal and State sales tax and shall indicate list, discount (where applicable), allowances and net prices, F.O.B. Destination, Brewer Public Works Department, 221 Green Point Road, Brewer, Maine.
3. Bidder shall submit with proposals the latest printed specifications and illustrations as advertised by the manufacturer of all equipment quoted, and shall include a warranty on basic unit and attached equipment, and date of delivery.
4. Basic unit and equipment or attachments shall be for the latest models available (manufactured 2023 or 2024), fully tested, serviced, ready to operate and complete in accordance with the specifications, and satisfactory to the Public Works Director and the City Manager.
5. All things not expressly mentioned in these specifications but involved in carrying out their intent are required by these specifications, and the Vendor shall perform the same as though they were specifically mentioned, described and delineated.
6. Bidder may be required to demonstrate (within the State of Maine) to the satisfaction of the City of Brewer, within 10 days following the opening of

bids, that the equipment proposed will both meet the specifications and do the functions required.

7. In making awards, consideration will be given to price, quality, delivery time, parts availability and service offered. **Bidder receiving award shall supply on delivery, 1 hard or paper copy of operating, and shop service manuals. They must also deliver 2 copies of the parts manual or an electronic equivalent, either DVD/CD, or a free web based site.** A retainer in the amount of 5% of the contract value will be held pending receipt of these manuals.
8. Bidder shall address each individual item on the attached specification sheets, indicating how it differs. Any item omitted may result in the bid being rejected entirely.
9. By submission of this proposal or contract, the prospective participant certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from doing business with any Federal department or agency. Furthermore, the prospective participant, if selected, agrees to ensure that any subcontractors it uses also meet this standard.
10. The City of Brewer is an Equal Opportunity Employer and Service Provider. The prospective participant, if selected, agrees that it shall not discriminate against any employee or applicant for employment because of age, sex, race, creed, color, national origin, ancestry, marital status, or sexual orientation.
11. The City of Brewer, acting through the City Manager, reserves the right to accept or reject any or all bids in whole or in part. The City of Brewer, acting through it's City Manager, reserves to itself the exclusive right to accept high bids when the City Manager, in his sole discretion, believes it would be in the best interest of the City of Brewer, In making such a decision, the City Manager may consider, but not be limited to, any of the following factors: quality, quantity, specifications, availability, service and location of bidder and reputation of bidder.

Sincerely,

Kendall Emerson  
Public Works Purchaser  
Cc: Public Works Director

**SPECIFICATIONS**  
(Mechanical Street Sweeper)

**GENERAL:**

The bid is for one (1) New Street Sweeper having a main broom with dual gutter brooms, one on the left side and one on the right side with variable down pressure and tilt controlled from cab.

**CHASSIS:**

Chassis shall be fully welded, formed channel, and boxed tube style. Sweeper shall have heavy duty steel bumpers with rubber padding to prevent damage to vehicles receiving hopper discharge.

**ENGINE:**

Engine shall be a turbo-charged 4 cylinder diesel with a minimum of 74 hp at 2,400 R.P.M. and a minimum displacement of 276 cubic inches. Engine shall be equipped with a dry-type air filter, full flow oil filter, all necessary gauges and emergency low oil pressure and high temperature shut down. Engine compartment cover shall have assist cylinders to aid in raising cover.

**HYDROSTATIC TRANSMISSION:**

Hydrostatic transmission shall be computer controlled to optimize propel system to engine power. Foot pedal shall control both forward and reverse directions and shall produce required torque at a set pressure. Power shall be evenly distributed through planetary torque hubs and shall be transferred from wheel drive motors to planetary torque hubs without side loading. Transmission shall be protected by 10 micron filter with in cab restriction indicator. The hydrostatic system shall be equipped with a priority relief valve to enable the sweeper to gradually coast to a stop when accelerator pedal is released.

**TIRES AND WHEELS:**

All tires shall have be premium Goodyear or equivalent steel-belted radials 14 ply, mounted on steel disk wheels.

**BRAKES:**

Service brakes shall be full power, hydraulically applied, twin – caliper disk type.

Loss of engine or hydraulic power shall not automatically engage brakes.  
Brake engagement or disengagement shall not be dependent upon engine running or any electric circuit.

Parking brake shall be mechanically applied drive axle and shall not be dependent on any electrical circuit.

### **STEERING:**

Steering shall be OEM full power steering.

Sweeper shall be equipped with fully sprung guide wheel strut utilizing two large heavy duty springs.

### **CAB:**

Cab shall be constructed of all-weather steel and insulated for noise protection.

DB Level should be below 85

All glass shall be tinted.

Operator's seats to be adjustable seats with seat belts.

Other equipment shall include but not be limited to, fresh air heater/defroster, windshield wipers/washer, and dual mirrors with spot mirrors for view of brooms, sun visors, air conditioning, AM-FM radio and Motorola CM 300D 45-watt FM-2-Way Radio with 3.5 db. gain antenna.

Cab shall have approximately 360 degree visibility.

### **INSTRUMENTS:**

Engine shall have illuminate speedometer/odometer, tachometer, voltmeter, fuel, oil pressure, air pressure, temperature, and def fluid gauges.

Sweeper will also have low coolant alarm, and hour meter.

Engine shall have tachometer/hour meter, oil pressure and temperature gauges.

All instruments shall be visible from both operators' seats.

### **ELECTRICAL SYSTEM:**

Unit shall be equipped with 12-volt (negative ground) systems, a 12 volt 925 CCA battery, with disconnect switch.

The sweeper engine shall have an alternator with a minimum rating of 120 amps.

All lighting shall be LED, D.O.T. approved including directional, stop, hazard, running and backup lights.

Head lights shall be sealed beam with high and low beam switch.

Work lights shall be provided where necessary for night operation.

Electric backup alarm and automatic rear view camera, with minimum 5.5 inch LCD monitor shall also be provided. Camera shall have infra-red lamps for night vision and be able to provide continuous rear view at all time.

All wiring shall be harnessed, and identified by color coding and word coded wires.

Electrical system shall have complete plug-in diagnostics that include fault codes and troubleshooting.

### **CONTROLS:**

All controls and switches for sweeper operation shall be illuminated and located in a central control panel in the cab visible from either left or right steering position.(If applicable).

Control panel shall contain all sweep functions, spray water, lighting, and hydraulic controls.

All switches shall be clearly identified by name and international symbol.

Hopper

### **HYDRAULIC SYSTEM:**

Hydraulic reservoir shall have a capacity of no less than 33 gallons, be baffled, and have a sight gauge.

The hydraulic system shall have a variable displacement hydraulic pump.

System shall have test ports at all functions sweeping, hopper, and propulsion.

Both gutter brooms, the main broom, and hopper shall be hydraulically driven or controlled.

All pressure hydraulic fittings shall be flat-face "O" ring or "O" ring boss type.

The drive suction and return lines shall have 10 micron filters and in cab restriction indicators.

The reservoir vent shall have a 10 micron filter.

The system shall have a hydraulic cooler mounted alongside the engine radiator and cooler shall have a 125PSI bypass valve.

A low hydraulic oil level indicator shall be located in the operators cab.

### **SWEEPER SIDE BROOMS:**

Sweeper shall have two gutter (side) brooms hydraulic direct drive, vertical digger type mounted on each side of sweeper.

Brooms shall be operated independently, together with the main broom, or separately with the main broom.

Side broom speed shall be variable form (90RPM to 160 RPM) controlled by operator while sweeping independent of sweeping speed.

Gutter brooms shall be multi piece replaceable segments and have a minimum diameter of 36 inches and protruding no less than 12 inches from outside of tire while sweeping.

They shall be hydraulically driven and have automatic kick back to prevent impact damage.

Gutter broom shall be adjustable for tilt and wear.

## **SWEEPER MAIN BROOM**

Main broom speed shall be variable form (80RPM to 140 RPM) controlled by operator while sweeping independent of sweeping speed.

Main broom shall rise when sweeper is reversed and reset when forward motion is resumed

## **CONVEYOR:**

Conveyor shall be hydraulically driven and able to load hopper to 100% of rated capacity.

Conveyor shall be capable of collection debris of varying sizes from 7 inches in in diameter to fine sand without the need to adjust conveyor system.

Conveyor shall have a cleaning system for conveyor and lower roller units.

## **HOPPER:**

The debris hopper shall be constructed of 304 stainless steel or equivalent lined hopper system.

Hopper shall have a life time warranty that covers rust, corrosion, and abrasion including normal wear and tear as long as the City of Brewer owns the sweeper.

The warranty shall include but not be limited to the hopper floor, sides, and roof.

The vender shall be financially responsible for all repairs, parts, labor, and preventive measures covering warranty repairs.

Hopper volume shall be a minimum of 3.5 cubic yards or greater.

Hooper shall be able to dump from ground level to 9ft. 6in.

## **WATER SYSTEM:**

The water system shall have a minimum capacity of 220-gallons.

The tank shall be polyethylene or 304 stainless steel.

Tanks shall have a life time warranty that shall include but not be limited to rust, corrosion, abrasion perforation, warping or UV damage.

Warranty shall cover 100% of parts, and labor for warranty repairs.

Water pump shall have run-dry capability and have a high / low pressure switch in cab.

System shall have a 15 ft. minimum hydrant fill hose, and a wash down hose with storage box or basket.

System shall have a cab-mounted on/off switch for water system and a low water alarm.

**ORIENTATION:**

Training by factory representative will be provided for operators and mechanics

**OPTIONAL EQUIPMENT:**

Automatic shutdown for low oil pressure and high temperature.

Warning lights shall be LED strobe head assembly mounted on the top of the sweeper with branch guard or equivalent warning lights.

Sweeper shall have easily access grease banks.

Extra conveyor belt and hopper seals included

**WARRANTY:**

The bidder shall furnish an extended manufacturer's warranty on parts and labor for three(3) years or 2,500 engine operating hours.

The bidder shall supply 48 hour parts delivery to keep down time to a minimum.

**SPECIFICATION SHEET  
Truck Chassis  
(Must Be Completed)**

**GENERAL:**

**CHASSIS:**

**SWEEPER ENGINE:**

**HYDROSTATIC TRANSMISSION:**

**DRIVE AXLE:**

**STEERING AXLE:**

**TIRES AND WHEELS:**

**BRAKES:**

**STEERING:**



**SPECIFICATION SHEET  
Sweeper Equipment  
(Must Be Completed)**

**FUEL SYSTEM:**

**CAB:**

**ELECTRICAL SYSTEM:**

**CONTROLS:**

**HYDRAULIC SYSTEM:**

**SWEEPER BROOMS:**

**HOPPER:**

**WATER SYSTEM:**

**OPTIONAL EQUIPMENT:**

**WARRANTY:**



Public Works Department

## BID FORM

(Bids close at 2:00 PM, Wednesday, September 27, 2023)

Make, Model, and Year of Street Sweeper:

\_\_\_\_\_

**1. Bid Price: (dual side brooms)**                      \$ \_\_\_\_\_

Earliest Delivery Date: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Signed: \_\_\_\_\_

Print or Type: \_\_\_\_\_

Title of Signed: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

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