

THE CORPORATION OF THE TOWN OF COBOURG



**TENDER
VACUUM STREET SWEEPER
CO-23-16 PWD**

**TENDER CLOSING DATE
TUESDAY, October 3, 2023
2:00 PM**

**TED SOKAY, CRS-S
MANAGER, ROADS & SEWERS
PUBLIC WORKS DIVISION
TOWN OF COBOURG**

THE CORPORATION OF THE TOWN OF COBOURG

VACUUM STREET SWEEPER **CO-23-16 PWD**

Sealed Tenders, clearly marked as to its contents with the Tender Bid Receipt Label provided, will be received by Legislative Services until:

2:00:00 P.M., Local Time, Tuesday, October 3rd, 2023

NOTE: The Town of Cobourg does not bind itself to accept the whole or part of any quotation, and in particular if only one quotation is received, the Corporation of the Town of Cobourg reserves the right to reject it. The Town reserves the right to reject any or all bids for any reason and to accept any bid if considered best for the Town's interest. Any bid submitted after the designated closing date and time will be returned to the entity submitting the quotation unopened.

The lowest tender received and deemed compliant, not necessarily accepted.

Mr. Brent Larmer
Director of Legislative Services
The Corporation of the Town of Cobourg
55 King Street West
Cobourg, Ontario K9A 2M2
Tel: 905-372-4301



COBOURG

THE CORPORATION OF THE TOWN OF COBOURG

TENDER BID RECEIPT LABEL

THIS LABEL MUST BE SECURELY ATTACHED TO THE FRONT OF THE SEALED ENVELOPE CONTAINING THE TENDER BID.

ALL TENDER BIDS MUST BE RECEIVED AT:

LEGISLATIVE SERVICES, 55 King Street West, Cobourg ON K9A 2M2 905-372-4301

COMPLETED BY DEPARTMENT ISSUING TENDER BID	
TENDER BID NUMBER:	CO - 23 - 16 - PWD
TENDER BID NAME:	VACUUM STREET SWEEPER
CLOSING DATE:	Tuesday, October 3, 2023
CLOSING TIME:	2:00 P.M.

COMPLETED BY COMPANY SUBMITTING TENDER BID	
SUBMITTED BY:	
COMPANY CONTACT:	
COMPANY NAME:	
COMPANY ADDRESS:	
COMPANY PHONE:	

LEGISLATIVE SERVICES USE ONLY		
TENDER BID RECEIPT:		
DATE:	TIME:	INITIALS:

LEGISLATIVE SERVICES USE ONLY			
TENDER BID OPENING:			
DATE:	TIME:	INITIALS:	INITIALS:

By-law 016-2012, Purchasing Policy (est March 19, 2012)
Part 7.1, Section 7, RETURN RECEIPT OF COMPETITIVE BID DOCUMENTS, Purchasing Policy,
"All tender bids will be issued from and received at the office of the Municipal Clerk, located at the
Main Floor of Victoria Hall, 55 King Street West, Cobourg, Ontario K9A 2M2,
using the appropriate label or envelope as provided in bid package."

INTRODUCTION

The Town of Cobourg, Public Works Division, is soliciting proposals for

Supply and Delivery of One (1) New Vacuum Street Sweeper

PRODUCTS

The Contractor shall provide proposal for review. Proposals shall contain:

- 1) Detailed description of product outlining how specifications are met
- 2) Detailed cost breakdown
- 3) Completed Specifications & Pricing
- 4) Completed Bid Information

TERMS AND CONDITIONS

- 1) The bid price shall be for one (1) New 2023 or 2024 Diesel Powered Vacuum Street Sweeper, as per the specifications.
- 2) It will be the Bidder's responsibility to ensure compliance and assume responsibility for the design, manufacture and installation of all items included in this bid. The Bidder shall also ensure that all add on components shall complement each other and one will not impede the operation of the other.
- 3) It is the intent of the specifications to describe a Vacuum Street Sweeper in sufficient detail to secure bids on comparable equipment, plus all other equipment outlined in this specification, if not standard.
- 3) Any units not conforming to the specifications shall be rejected unless deviations are cited by the bidder and acceptance made on this basis. If no deviations are cited, the unit bid on will be deemed to meet the specifications and it will be the responsibility of the manufacturer to conform with the requirements.
- 4) The Corporation of the Town of Cobourg reserves the right to award in whole or in part. Lowest or any bid not necessarily accepted. Condition of awarding based on availability of funds for 2023 budget year.
- 5) All manufacturer's brochures, warranties, and parts books, where applicable, shall be supplied with the delivery except that all brochures shall also accompany the bid.

REQUIREMENTS

Please Note: The below noted requirements are to ensure that all bidders are properly qualified to sell and service the equipment proposed and meet all Federal and Provincial regulations pertaining to Motor Vehicles.

- 1) All Bidders MUST be a licensed "Retail" motor vehicle dealer in good standing with the Ontario Motor Vehicle Industry Council. Please provide a copy of the license with bid. Bids from suppliers not meeting the requirements under the "Motor Vehicle Dealers Act" will be disqualified.

Specifically sections, 20/91, 693/91, 283/92, 201/94, 223/94, 207/00, 23/05 MVDA 1994 c. 27, s.92, 1997 c. 19 s38, c.35 s2, 1998 c.18 sch. E s184-186, 1999 c 12 sch G s29, 2001 c.9 sch. D s13,14 2002 c. 30 sch. E s 12: as well as any other applicable sections of the act.

- 2) The Dealer's history and past performance will be used as part of the selection process.

a) Please Specify Dealer license number _____

b) Specify Salesperson License number for those involved in the transaction _____

- 3) The Manufacturer or the importer of record is responsible for ensuring that the vehicle meets all requirements of the Canadian Motor Vehicle Safety Standard Act. (CMVSS) and Described in the Motor Vehicle Safety Act. The vehicle must be tagged and bear the National Safety Mark. A US DOT compliance label is not acceptable in lieu of Transport Canada certification although it may be applied in addition to the National Safety Mark.

a) Please specify the registration number and name of the company that will be applying the National Safety Mark _____

- 4) From time to time it may be necessary for the successful bidder to transport the vehicle either under its own power or by means of towing or floating. As such we require that the bidder maintain a valid CVOR, Commercial Vehicle Operators Record in the province of Ontario. Bidders without a valid CVOR or a less than satisfactory rating will be disqualified.

a) Please specify CVOR # _____
The Town will verify the rating with the Ministry of Transportation prior to the award of the bid.

- 5) The bidder is required to provide proof of valid commercial general liability insurance in the form of individual or blanket policies totaling five million dollars. In addition, the bidder must carry a minimum of five million dollars in motor vehicle liability. **Please enclose with your bid copies of the policies or a binder letter from a licensed insurance broker.**
- 6) The bidder shall be a licensed motor vehicle inspection station for the class of vehicle being supplied. **Please enclose a copy of the inspection station license with your bid.**
- 7) All warranty and pre-delivery functions shall be performed by licensed factory trained 310T Truck and Coach Mechanic or a registered apprentice truck and coach mechanic. The Town reserves the right to request a staff list detailing the qualifications of the service personnel. This will form a part of the selection process.
- 8) The successful bidder shall offer emergency technical support 7 days a week 24 hours a day.
 - a) Please specify the afterhours and contact number

- 9) The bidder shall supply a minimum of five (5) end user references for this product in the province of Ontario. **Please supply list on a separate sheet.**
- 10) The Town wishes to purchase a proven product with a proven track record in Ontario. Bidders should be advised that the Town will not consider prototype equipment or equipment that has not been in consistent service with substantial units in operation in Ontario for at least five (5) years.
- 11) The bidder shall complete in full the attached "Specifications" form.

OPENING OF TENDERS:

Tenders will be opened at 2:00pm on Tuesday, October 3, 2023.

GENERAL

The successful bidder shall deliver one new operating 2023 Vacuum Street Sweeper to the Town of Cobourg, Public Works, 740 Division Street, Building 7, Northam Industrial Park.

Indicate delivery date: _____

All manufacturer's brochures, warranties, and parts books, where applicable, shall be supplied with the delivery except that all brochures shall also accompany your bid.

The successful Bidder must guarantee all workmanship on the vehicle supplied without any waiver of warranty.

If the Bidder does not feel that the best interest of the Municipality is being best served by the above conditions, he/she may submit an alternative bid and state in what manner the truck bid varies from the specifications.

Bids shall be open for acceptance for ninety (90) days following submission closing date.

The lowest or any tender need not necessarily be accepted.

This Tender is conditional upon received funding from council.

Any Tender not necessarily accepted. Condition of awarding based on availability of funds for 2023 budget year.

CONTACT PERSON

Questions relating to this request shall be directed, in writing by email to:
Ted Sokay, Manager Roads & Sewers, CRS-S, tsokay@cobourg.ca.
Deadline for inquiries 2:00pm Thursday September 28, 2023.

SINGLE TENDER

In accordance with the Town of Cobourg's Purchasing Policy and By-law 016-2012 if a single tender is received the tender period will automatically be extended for two (2) additional weeks and the tender will be returned to the bidder. The Town of Cobourg reserves the right to answer bidder's questions and issue clarifications to document takers during the two (2) week deadline extension.

SPECIFICATIONS

It will be the bidder's responsibility to ensure compliance and assume responsibility for the design, manufacture and installation of all items included in this quotation.

The following specifications shall apply to the listed item or feature shall be furnished. If any question must be answered "No", please explain.

"(BPS – The Corporation of The Town of Cobourg) is part of the Broader Public Service of the Province of Ontario and as such may be eligible for concessions (discounts) on vehicles included in the Ministry of Government Services Vendor of Record arrangement OSS-00163907."

1.0 SPECIFICATIONS

This bid document is being issued, primarily as a means of securing One (1) new 2023 model year Vacuum Street Sweeper

Item #	Specifications	Confirmation		Specify
		Yes	No	
	<p>The following are to be the minimum requirements for one (1) new 2023 or 2024 Vacuum Street Sweeper.</p> <p>The bidder must be either a factory franchised dealer or a manufacturer engaged in the business of selling and dealing the equipment bid upon. The manufacturer must have been in continuous business for a minimum five (5) years.</p> <p>This specification describes an environmentally controlled and silenced street sweeper.</p> <p>The Vehicle shall be supplied with all standard equipment plus all other equipment outlined in this specification, if not standard.</p> <p>The vehicle shall meet or surpass the mandatory requirements of the "Canadian Motor Vehicle Safety Regulations (S.O.R. 70-487) amended" and bear the National Safety Mark outlined in those regulations.</p>			

	8 Cubic yard minimum, dual gutter brooms, vacuum street sweeper, truck mounted on a conventional chassis.			
		Make: Model: Engine Model:		

SECTION A CHASSIS

1	Chassis:	Yes	No	Specify
1.1	Chassis shall be conventional design.			Make: Model:
1.2	G.V.W.R. = 33,000 lbs. minimum			
1.3	Wheelbase maximum 176"			
1.4	Cab to axle shall not be more than 106 inches.			
2	Axles:	Yes	No	Specify
2.1	Front axle shall be 12,000 lbs. minimum and be equipped with taperleaf front suspension and shock absorbers			
2.2	Rear axle shall be 21,000 lbs minimum			
2.3	Single-speed rear axle shall have a ratio of 7.17:1 for proper sweeping speed.			
2.4	Rear axle shall include dual tires for load capacity, single tires will not be accepted			
2.5	Front & Rear dust shields shall be provided.			
3	Suspension:	Yes	No	Specify
3.1	Front Suspension shall be 12,000 lbs. at ground rating.			
3.2	Front shock absorbers shall be supplied.			
3.3	Rear suspension Shall be multi-leaf spring with a rating of 21,000 lbs. minimum.			

4	Brakes:	Yes	No	Specify
4.1	The ABS Brake system shall be CMVSS compliant full air "S"-Cam type with an 18.7 cfm compressor and a heated Bendix AD-9 air dryer.			
4.2	Automatic slack adjusters, spring set park brake with cab control, low air warning indicators and easily visible brake stroke indicators.			
5	Wheel & Tires:	Yes	No	Specify
5.1	Wheels shall be 10 hole steel hub piloted 22.5x8.25			
5.2	Tires shall be tubeless, 14 ply 11R22.5, G load rated			
5.3	Front and rear rims shall be interchangeable			
6	Engine:	Yes	No	Specify
6.1	Diesel Engine			
6.2	Diesel emissions must meet all current emission requirements.			
6.3	409 cu in. (6.7 L) In-line 6 cylinder, turbo charged Cummins ISB 6.7 (or equivalent)			
6.4	Minimum 200 HP (150 KW) @ 2400 RPM			
6.5	Minimum 520 ft-lbs (708 Nm) Torque @ 1600 RPM			
7	Engine Equipment:	Yes	No	Specify
7.1	Engine shall be equipped with a single vertical exhaust system			
7.2	Minimum 160-amp Alternator			
7.3	Two (2) maintenance free 12 volt batteries with a total of 1850 CCA minimum. Batteries should be located in an enclosed accessible environment for long life and ease of service.			
7.4	Antifreeze protected to -34 degrees Fahrenheit.			
7.5	Dual safety element dry type air cleaner			

7.6	Spin on type oil filters			
7.7	Fuel system will have a primary filter & sediment bowl as first stage filtration from the fuel tank.			
7.8	High coolant temperature and low oil pressure shutdown system shall be supplied as standard equipment.			
7.9	A tachometer and hour meter shall be supplied.			
7.10	Engine shall be equipped with block heater.			
7.11	Radiator fan shall be viscous drive type.			
8	Transmission:	Yes	No	Specify
8.1	An Allison 2500 RDS automatic transmission or approved equivalent shall be provided			
8.2	A variable speed device shall be installed between the chassis engine and the Allison transmission allowing efficient use of chassis engine power for sweeper operation and variable travel speed while sweeping.			
8.3	Variable speed device shall produce a 1:1 speed ratio between the chassis engine and the Allison transmission while the sweeper is in "Road Mode"			
8.4	Variable speed device shall have a selectable "Road Mode", herein referred to as controlling the chassis engine speed and transmission shifts normally through accelerator pedal(s); i.e. driving the chassis on the road for transport.			
8.5	Variable speed device shall allow chassis accelerator pedal(s) control input speed to the Allison transmission while chassis engine speed remains constant when the sweeper is in "Work Mode".			
8.6	Variable speed device shall have a selectable "Work Mode", herein referred to as controlling and operating the sweeper using variable speed device to allow complete utilization of sweeper system.			
8.7	For ease of operation, the variable speed device shall be in-cab controlled via singular push-button switch located on control console.			
8.8	Engaging either "Work Mode" or "Road Mode" shall NOT require the parking brake to be engaged or the chassis to be placed into neutral.			

9	Fuel Tank & DEF Tank	Yes	No	Specify
9.1	Minimum 50-gal (189L) fuel tank shall be easily accessible without raising or shifting any components. A fuel gauge, in cab, shall be supplied. Sight tube is not acceptable.			
9.2	Diesel emissions shall be 2016-2019 on board diagnostics/2010EPA/CARB/FinalGHG17 Configuration, and have a minimum 6-gal (23L) diesel emissions fluid tank capacity			
10	Cab:	Yes	No	Specify
10.1	Cab shall have two high back air suspension seats, fully adjustable, covered with cloth for air circulation and include adjustable lumbar support and 3 point seat belts.			
10.2	Seats must have seat belts supplied on both sides			
10.3	Seats must have arm rests supplied on both sides			
10.4	Sun visors shall be supplied on both sides.			
10.5	Heater with full width defrosters, fresh air ducts & multi-change speed fan shall be supplied			
10.6	Intermittent windshield wipers with washers, operable from either side, shall be supplied.			
10.7	Factory air conditioner shall be supplied with cab air filter and fresh air heater/ventilator/defroster. Cab shall have full flow through ventilation for optimal temperature control and operator comfort.			
10.8	All glass shall be tinted safety glass.			
10.9	Doors shall have power windows, both sides, with switches accessible by the driver in each seat.			
10.10	Doors shall be keyed alike and have power locks			
10.11	Cab shall be fitted with heated and remote controlled outside mirrors with the addition of lower 8" convex mirrors			
10.12	8" mirrors shall be installed on the RH and LH fenders forward of the front wheels.			
10.13	AM/FM/WB with Bluetooth capabilities radio, speakers and antenna shall be supplied. 12 volt power supply shall also be provided in cab.			

10.14	In cab switches shall be illuminated and clearly identified by name and symbol.			
10.15	A full 'cross-over' system to change steering control, throttle and all gauges permitting sweeper operations from left to right hand side and vice versa shall be supplied.			
10.16	All cross-over functions shall be controlled by a single switch. This circuit shall be inter-locked to the parking brake and shall only be capable of being activated with the parking brake applied.			
10.17	Two independent accelerator and brake pedals shall be installed in cab to facilitate operation from either side.			
10.18	Steering shall be full power from either side.			
10.19	The exterior cab paint must be "factory white" over a prime coat of good bonding paint.			
10.20	Interior of cab shall have acoustical insulation for low operating noise, automotive type trim and centre sweeper console.			
10.21	Chassis left side operator and right side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, hour meter, trip hour meter, odometer, trip odometer, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge and volt gauge.			
10.22	Chassis engine instruments shall include warning light and chime for low coolant level and high coolant temperature.			
10.23	Console shall have left/right primary driver switch.			
10.24	Hydraulic functions shall be controlled by rocker switches located in cab mounted control panel.			
10.25	All console switches including transmission controls and all gauges shall be illuminated.			
10.26	Intake mounted air restriction indicator with graduations.			
11	Lights: <u>ALL LIGHTS TO BE LED</u>	Yes	No	Specify
11.1	All lamps and reflectors shall comply with federal regulations.			

11.2	Four-way hazard warning lights shall be supplied.			
11.3	Back up lights with alarm shall be fitted.			
11.4	Minimum 36 inch rear mounted LED arrow stick with variable flash patterns.			

SECTION B SWEEPER

12	Engine	Yes	No	Specify
12.1	Power delivered to operate the sweeper will be supplied by the single chassis engine.			
13	Blower:	Yes	No	Specify
13.1	Blower shall be hydraulically driven by a minimum 2.87 cu-in (47 cc) displacement bent axis compact motor.			
13.2	Blower shall be directly coupled to the hydraulic motor, using Jaw-type coupling.			
13.3	The single engine sweeper, shall provide all horsepower for blower speed of 3300 RPM.			
13.4	The system shall provide all horsepower for effective & efficient use of both suction nozzles for "simultaneous sweeping"			
13.5	Blower shall be a closed face turbine type, 31 3/8" diameter, with 9 vanes constructed of Hardox® 500 steel			
13.6	The blower housing shall be constructed of 10 gauge steel and lined with 150MIL thick polyurethane bolt in liners - liner replacement does not require blower to be removed from housing			
13.7	Blower housing shall have an inspection door for access to blower without removing the blower housing or looking into the air exhaust opening. Access to this inspection door must be possible without tilting the hopper.			
13.8	Blower housing shall not be an integral part of the hopper. Replacement of the blower housing must be possible without any cutting and/or welding of the housing and or hopper			

13.9	The blower shall be mounted and supported on both sides by heavy-duty greasable bearings. Greasing of the bearings must be possible from ground level, without tilting the hopper			
14	Suction Nozzles	Yes	No	Specify
14.1	Suction nozzle width shall be a minimum of 32" with a pick-up area of no less than 174 sq./in.			
14.2	The suction hose shall have a quick disconnect coupling, not requiring any tools, at the lower area, near the suction nozzle.			
14.3	All metal components, nozzle, tube, etc. shall be constructed of abrasion resistant steel for longer life in an abrasive environment. Cast aluminum components or components using rubber liners are not acceptable			
14.4	The suction hose shall be not less than 11" in inside diameter			
14.5	The nozzles shall extend minimum 15 inches beyond the wheel track			
14.6	The nozzles shall have a replaceable wear edge for running against the curb.			
14.7	Both nozzles shall be capable of being deployed concurrently to allow simultaneous sweeping			
14.8	The suction nozzle shall ride on two heavy-duty caster wheels. These caster wheels shall be of a pivoting design			
14.9	The suction nozzle shall be equipped with a front mounted shutter. This shutter allows easy entry of large objects and large quantities of leaves. The shutter must be replaceable as a separate part. In-cab control to activates shutter door for both left and right side.			
15	Side Brooms	Yes	No	Specify
15.1	Shall be fitted with a side broom on both the right hand and left hand side of the chassis			
15.2	The right and left side broom shall be a free floating trailing arm design intended to prevent damage when sweeping and encountering a fixed obstacle			

15.3	The trailing arm shall be of a parallelogram design for simple, non-binding action/motion and for constant bristle and wear pattern.			
15.4	The side brooms shall be 36" diameter minimum, with hydraulically driven rotation.			
15.5	The side brooms shall be pneumatically raised, lowered and suspended by heavy duty pneumatic cylinders.			
15.6	Adjustable down pressure shall be pneumatically controlled by the operator from the cab.			
15.7	The broom hydraulic motor drive shall provide not less than 4500 in-lbs. of torque.			
15.8	The side broom assemblies shall have greaseless pivot pins.			
15.9	The side broom assemblies shall be held in the storage position by a positive means to support broom during travel.			
15.10	Each side broom shall be independently controlled from inside the cab by its own rocker switch. Variable speed side brooms required.			
15.11	Electrically operated tilting mechanism allows operator to change inward/outward tip of the right side broom. Angle can be changed from cab while sweeping. This allows efficient sweeping of irregular surface that could require special manual broom setting.			
15.12	Electrically operated tilting mechanism allows operator to change inward/outward tip of the left side broom. Angle can be changed from cab while sweeping. This allows efficient sweeping of irregular surface that could require special manual broom setting.			
16	Extension Broom	Yes	No	Specify
16.1	The extension broom shall be 60" long, 16" in diameter and reversable.			
16.2	The extension broom shall operate at an 18° windrow angle minimum and be able to pivot for left hand side or right hand side sweeping activated by a pneumatic cylinder.			

16.3	The extension broom shall be hydraulically driven with a relief valve.			
16.4	The extension broom hydraulic drive shall provide not less than 4500 in-lbs of torque.			
16.5	The extension broom shall be pneumatically raised, lowered, and suspended.			
16.6	The extension broom pressure will be adjustable via a variable pressure control.			
16.7	The extension broom shall have a greaseless pivot pin.			
16.8	When the transmission is placed in reverse or is put in transport mode the extension broom rotation shall stop, and all sweeping functions shall raise automatically.			
17	Hopper	Yes	No	Specify
17.1	Hopper capacity shall be 8 cubic yards minimum.			
17.2	Hopper shall be constructed of 10 gauge steel sides, and a ¼" steel floor.			
17.3	The front section of the hopper must consist of a hopper cowl, covering the hydraulic tank, blower, hydraulic cooler, and service items. Hopper cowl shall also provide noise reduction and protection of sweeper system(s) and consists of a roof section and two hinged side doors that allow access to the serviceable items for ease of maintenance. All these items must be accessible without tilting the hopper.			
17.4	A weight actuated full load indicator shall be mounted in the cab on the control panel.			
17.5	Dumping debris from the hopper shall be accomplished by tilting the hopper via a two-stage telescopic cylinder. The use of multiple cylinders for tilting the hopper will not be acceptable.			
17.6	The hopper tilt angle when dumping shall be a minimum 50°.			
17.7	The hopper floor angle shall be a minimum of 10°.			

17.8	The hopper shall have a safety external hopper prop capable of supporting the entire weight of the hopper.			
17.9	The hopper rear door shall be hinged at the top of the door and opened by means of a hydraulic cylinder.			
17.10	The hopper rear door shall open at a minimum angle of 90° to be perpendicular to the hopper opening.			
17.11	The hydraulic cylinder movement shall consist of weatherproof toggle style switches located on the exterior right side of the sweeper along with in cab dump switches. Hopper raise/lower and hopper door/close shall also be included.			
17.12	The rear hopper door shall have a safety prop capable of supporting the weight of the door.			
17.13	The hopper rear door shall include an automatic lock mechanism for a tight fit and optimal sealing between the hopper and the rear door.			
17.14	The rear door seal shall be a water resistant heavy-duty reinforced D style rubber seal. Foam seals are not acceptable.			
17.15	The water tank shall not raise with the hopper. The water tank shall be mounted to the sweeper frame and shall be removable for service. Water tanks that are an integrated part of the hopper shall not be allowed.			
17.16	Two (2) screens, for a total screen area of 3000 square inches, of not less than 11 gauge steel shall be installed to allow air to move freely from the hopper into the blower area. The hopper screens shall be hinged and pinned to allow easy clean out.			
17.17	Hopper must be supplied with protective lining with lifetime warranty.			
17.18	Hopper deluge/washout required for cleaning of the hopper.			
18	Spray Water System	Yes	No	Specify
18.1	The water system shall consist of two water tanks. Both shall be removable for service and shall have a total capacity of 335 gallons minimum. Both tanks shall be constructed of rust proof polyethylene.			

18.2	The water tank shall be frame mounted with no part sharing any common wall with the hopper and shall not rise during hopper dumping for better weight distribution.			
18.3	Two (2) electric 12 volt, diaphragm type pumps will provide a capacity for 8 GPM @ 40 PSI to the suction nozzle, the side broom and the extension broom. Belt driven pumps are not acceptable.			
18.4	One (1) water pump is fully dedicated to supplying water to the RH suction nozzle, RH side broom and extension broom for optimal dust control.			
18.5	One (1) water pump is fully dedicated to supplying the LH suction nozzle, LH side broom and optional front spray bar for optimal dust control.			
18.6	Each water pump must have two (2) flow rates, selectable by the operator from within the cab and capable of running dry without damage.			
18.7	Three (3) water spray nozzles are located at each side broom for optimal dust control.			
18.8	Seven (7) removable water spray nozzles are located inside the suction nozzle (ea.). Water spray nozzles that spray on the outside of the nozzle are not acceptable.			
18.9	The extension broom is supplied with four (4) rubber mounted, quick disconnect spray nozzles for easy cleaning and maintenance. Non rubber mounted and non-quick disconnect water nozzles are not acceptable.			
18.10	The water filter, located near the water pumps must be easy to access and clean without tilting the hopper.			
18.11	All water piping shall be external to the operator cab. For safety, no water lines capable of leaking or bursting shall be within the cab.			
18.12	A water level gauge shall be provided on the control console within the cab.			
18.13	A 2 ½" anti-siphon air gap shall be supplied on the water tank fill to prevent contamination of supply water.			

19	High Pressure Washdown System			
19.1	The unit shall include a high pressure washdown system.			
19.2	The high pressure washdown system shall include 25 feet in length of ½ inch diameter high pressure hose with a spray nozzle.			
19.3	A hose reel for the high pressure hose to be installed on the left rear of the unit.			
20	Hydraulic System	Yes	No	Specify
20.1	A variable - piston type - displacement pump with a minimum of 4.2 cu-in (68.8 cc)/rev rating shall be used for the sweeper blower system.			
20.2	A gear driven hydraulic pump, for maintenance free operation, having a minimum flow capacity of 32.2 GPM (121.9 LPM) @ 3400 RPM shall be used for the sweeper brooms and hopper dump functions.			
20.3	Blower drive motor shall be hydraulic bent axis compact type, closed loop system, to achieve effective blower speed of 3300 RPM while providing ease-of-alignment with drive coupling.			
20.4	Reservoir capacity shall be not less than 23 gallons (87 L) and have an exterior sight gauge. The reservoir must be located for quick inspections without tilting the hopper.			
20.5	All hydraulic circuits shall have quick disconnect pressure check ports			
20.6	Hydraulic oil cooler shall be standard, equipped with hydraulically driven cooling fan, to provide adequate cooling with fresh air intake and accessible without raising the hopper. The hydraulic system shall operate below 200°F.			
20.7	Hydraulic return line to have 10-micron absolute spin-on filter as standard.			
20.8	The charge pump flow filter shall be 6-micron absolute canister type.			

20.9	The hydraulic reservoir vent shall be equipped with 10-micron absolute spin-on breather filter as standard.			
20.10	The system shall contain two 100-mesh stainless steel suction strainers.			
20.11	An in-cab, control console mounted, low hydraulic oil volume and high hydraulic oil temperature alarm shall be provided.			
21	Pneumatic System	Yes	No	Specify
21.1	The pneumatic system shall have DOT, prestomatic push to lock fittings.			
21.2	There shall be a PR4 type pressure protector for the chassis air system to protect the chassis air system at air pressures below 85 PSI.			
21.3	A separate air tank for all sweeper air components shall be provided.			
21.4	All pneumatic cylinders must be rated to 150 PSI and have separate rod seal and wiper to prevent contamination entering the cylinder.			
21.5	Each cylinder shall be controlled by a single, two positions, solenoid valve mounted on a manifold with common input and exhaust. A manual override shall be provided on each solenoid valve for trouble shooting and function lockout.			
21.6	All air lines should be color-coded and function stamped for ease of identification maintenance.			
21.7	Air purge required on water system.			
22	Electrical System	Yes	No	Specify
22.1	All electrical circuits must be protected by automotive style blade fuses.			
22.2	Sweeper shall have an electronic back-up alarm for additional warning and safety when chassis is in reverse.			
22.3	Sweeper lighting shall include rear identification lights, side broom and rear clearance lights.			

22.4	To be equipped with a two (2) strobe, one at the rear of the hopper and one on top of the chassis cab or on the front of the sweeper body			
22.5	Sweeper warning lights shall include hopper up, hopper door open and hopper full load.			
23	Sweeper Engine with Single-Engine system	Yes	No	Specify
23.1	The sweeper shall be equipped with a variable speed device approved at 560 ft-lb of input torque and 240 (179 KW) of input power. A variable speed device eliminates the need for an auxiliary diesel engine in applications where a second power source have traditionally been required. The variable speed device uses the chassis engine to power the chassis propulsion and the sweeper components.			
23.2	The variable speed device shall be located between the chassis engine and the Allison transmission for maximum efficiency.			
23.3	The variable speed device shall be capable of directly driving hydraulic pumps without the use of auxiliary Power Take Off's (PTO's) or belt drive systems.			
23.4	The variable speed device shall be a planetary gearbox design; varies the input to output ratio. The system provides variable sweep speed operation through the chassis Allison transmission and also directs engine powered PTO for the sweeper components.			
23.5	The variable speed device "speed" control pump shall operate directly off the chassis engine coupling in all modes - "Work Mode" or "Road Mode". This pump shall provide variable operating flow - managing the ratio of input to output - for the variable speed device. The system shall include an electronic control module which manages pump flow.			
23.6	The variable speed device shall operate directly off of the chassis engine coupling in all modes - "Work Mode" or "Road Mode". For the sweeper, the variable speed device PTO shall power a blower drive and sweeper pump through a conventional drive shaft.			
23.7	Sweeper with variable speed device shall not require an auxiliary engine and their associated EPA Tier 4 final emissions systems; Diesel Oxidation Catalyst (DOC), Diesel Particulate Filter (DPF) and/or Selective Catalytic Reduction (SCR) systems-maximizing cost avoidance for emissions systems maintenance and eliminating the need for untimely auxiliary engine emission regenerations.			

23.8	To accommodate both easy access and sound attenuation, the front cowling shall be enclosed on both sides by two access doors, one on each side of the sweeper body. These doors provide access to serviceable items without tilting the hopper.			
24	Controls	Yes	No	Specify
24.1	All sweeper controls shall be mounted on a stationary central console that allows for use and visibility from either right or left positions.			
24.2	Engaging either "Work Mode" or "Road Mode" shall NOT require the parking brake to be engaged or the chassis to be placed into neutral.			
24.3	For increased safety and operator productivity, "Work Mode" shall be selectable when vehicle speed is at or below 5 MPH.			
24.4	For quick departure from sweeping application(s) or for sweeper transport, "Road Mode" must be selectable while vehicle is moving.			
24.5	The controls for sweeping, spray water, and lighting functions shall be rocker switches.			
24.6	Controls for sweep system shall include sweep/resume feature; allowing the automatic raise when chassis transmission gear selector is put into reverse of side brooms and suction nozzle(s).			
25	Instruments	Yes	No	Specify
25.1	Complete information for the operator on the condition of the sweeper system must be visible from both operator positions.			
25.2	Sweeper instruments shall include diagnostic information for the sweeper and sweeper functional information to include water level, sweeping mode, transport mode, and dump mode.			
25.3	Sweeper instruments shall include the following indicators to notify the operator. A "raised" hopper indicator, an "open" hopper door indicator and a "full" hopper indicator.			

26	Paint	Yes	No	Specify
26.1	Colour shall be "White"			
26.2	All visible exterior metallic surfaces shall be coated prior to assembly with polyester powder coat. The paint must be a minimum of 2 mils thick. The uses of acrylic enamels and/or polyurethanes are not acceptable.			
27	Manuals	Yes	No	Specify
27.1	An operation manual shall be provided			
27.2	A parts manual shall be provided			
28	Training	Yes	No	Specify
28.1	A qualified technician shall provide complete training to personnel at the Town of Cobourg Public Works. Training shall include safety, operation, maintenance, and service.			
29	Delivery	Yes	No	Specify
29.1	Sweeper shall be delivered to the Town of Cobourg, Public Works: 740 Division Street, Building 7, Cobourg ON			
29.2	Sweeper shall be delivered in first class operating condition.			
29.3	Acceptance shall be subject to the inspection and approval of the Town of Cobourg.			
29.4	Bidder shall specify expected delivery date of : But no later than the date of:			

30	Warranty	Yes	No	Specify
30.1	Signed manufactures warranty must be supplied			
30.2	Description of Warranty	Length of Warranty		
	Complete Vehicle			
	Drivetrain			
	Engine			
	Sweeper Components			
	Other			
29	Additional Information			
	<p>Address of the Bidder's service facility which is the closest to the Town of Cobourg and can perform maintenance / warranty work.</p> <p>Cab and Chassis:</p> <p>Sweeper Components:</p>			
Number of years Bidder has been in Business		Specify:		
Bidder is a factory authorized dealership or manufacturer		Yes:	NO:	
Origin of Goods		City:		
		Country:		
Goods to be shipped from		City:		
		Country:		

30	References				
List five (5) Municipalities who have been using the Vacuum Sweeper offered in this tender for a minimum period of five (5) years.					
	Name of Municipality	Contact Name	Length of time Sweeper in service for.	Specify Model # of Vacuum Sweeper.	Phone #
1.					
2.					
3.					
4.					
5.					
31.0	PROVISIONAL TRADE-IN				
31.01	<p>The Town of Cobourg may choose, at its sole discretion, to trade in the current street sweeper in "AS-IS" condition at the time of bid opening. This vehicle is available for inspection at the Town of Cobourg, Public Works. Bidder shall state amount of allowance to be deducted from Bidder's Proposal, should this option be selected.</p> <p>TRADE-IN ALLOWANCE \$</p>				
32.0	EXCEPTIONS AND DEVIATIONS				
0	<p>Bidder shall fully describe every variance, exception and/or deviation. Additional sheets may be used if required.</p>				

**PART D – FORM OF TENDER
AGREEMENT TO CONTRACT AND SCHEDULE OF PRICES**

CONTRACT NUMBER: **CO-23-16 PWD**

DESCRIPTION: *Supply and Delivery of One (1) Vacuum Street Sweeper*

SUBMITTED TO: The Corporation of the Town of Cobourg

The undersigned, the bidder, having examined the bid document including all information to Bidders, general terms and conditions, supplementary terms and conditions (if applicable), specifications, and attachments and appendices as issued by the Corporation of the Town of Cobourg and including Addenda number ____ to ____ hereby offer and agree to enter into a Contract to supply the Equipment and Services required by this bid document at the costs detailed in the attached Price Schedule. Furthermore, it is certified that the undersigned is/are authorized and empowered to sign and submit this bid document.

Pricing for the required Vacuum Street Sweeper

YEAR **MAKE** **MODEL**

COMPONANT	Unit Price (excluding HST)
Vacuum Street Sweeper	\$
Provisional Trade In Value	\$
Total, <u>excluding provisional trade in value</u>, delivered F.O.B. Cobourg (excluding HST)	\$
Indicate delivery date:	

BIDDER

SIGNATURE

DATE

Appendices to Tender:

This Tender is irrevocable and is to continue open to acceptance by the Town of Cobourg for a period of ninety (90) calendar days after the date and time set for submission of the Tender.

Furthermore, it is certified that the undersigned is/are authorized and empowered to sign and submit this Tender. Signing this Form of Tender binds the bidder to all terms, conditions (including Schedule of Prices) found within the Request for Tenders.

Dated at _____ this _____ day of _____, 20__.

Contact Person _____

Telephone No. _____ Fax No. _____

Email address: _____

Company: _____
(Name)

(Street Address or Postal Box Number)

(Municipality, Province, and Postal Code)

Signature: _____

(I have the authority to bind the corporation)

Print Name and Title: _____

**THIS DOCUMENT MUST BE SIGNED AND SUBMITTED TO BE A VALID OFFER OR THE
TENDER WILL BE REJECTED.**

**THE FORM OF TENDER MUST BE EXECUTED WITH AN ORIGINAL SIGNATURE MADE
IN INK.**

Training:

All training to be provided on site at the Town of Cobourg, Public Works, 740 Division Street, Cobourg, ON

- | | | | |
|----|--|------------------------------|-----------------------------|
| 1) | Training shall be provided for the operations and maintenance staff at the Town of Cobourg Public Works Department designated for these units. | YES <input type="checkbox"/> | NO <input type="checkbox"/> |
| 2) | Operator training shall be performed by a factory trained representative. | YES <input type="checkbox"/> | NO <input type="checkbox"/> |
| 3) | Mechanics training shall be performed by a factory trained, licenced Truck & Coach Mechanic (310T). | YES <input type="checkbox"/> | NO <input type="checkbox"/> |

BID SUBMITTED BY:

Company Name: _____

Name & Title: _____

Signature: _____

Address: _____

City: _____

Telephone: _____

Fax: _____

Postal Code: _____

Email: _____