



REQUEST FOR QUOTATIONS

Title: THE PURCHASE OF ONE (1) ONLY REGENERATIVE AIR
ROAD SWEEPER ON CAB-OVER-ENGINE CONFIGURATION

Reference No.: 1220-040-2013-059

FOR THE SUPPLY OF GOODS

(General Services)

REQUEST FOR QUOTATIONS

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REQUEST FOR QUOTATIONS

1. INTRODUCTION

The City of Surrey (the "**City**") invites contractors to provide a quotation on the form attached as Schedule C (the "**Quotation**") for the supply of the goods (if any) and services described in Schedule A (the "Goods and Services"). The description of the Goods and Services sets out the minimum requirements of the City. A person that submits a Quotation (the "**Contractor**") should prepare a Quotation that meets the minimum requirements, and may as it may choose, in addition, to also include goods, services or terms that exceed the minimum requirements.

2. ADDRESS FOR DELIVERY

The Contractor should submit their Quotation (use Schedule C to this RFQ) labeled with the Contractor's name, RFQ title and number to the City by **email at:** purchasing@surrey.ca.

PDF emailed Quotations are preferred, but the Contractor bears all risk that the City's equipment functions properly so that the City receives the Quotation. Note that the maximum file size the City can receive is 10Mb. If sending large email attachments, Contractors should phone to confirm receipt. Respondents should reference the RFQ #1220-040-2013-059 in their email subject line.

If the Contractor also wants to submit a hard copy, the Contractor should submit one original unbound Quotation and one (1) copy (two (2) in total) to the City at the office of:

Name: Kam Grewal, CMA, BBA, Corporate Audit Manager
Acting Purchasing & Accounts Payable Manager
at the following location:

Address: City of Surrey, City Operations Works Yard
Purchasing Section, 1st Floor
6645 – 148th Street, Surrey, BC V3S 3C7
(located at the intersection of 148th Street and 66A Avenue,
Surrey, BC)

Tel: 604-590-7274
Fax: 604-599-0956
Email for PDF files: purchasing@surrey.ca

3. DATE

The City would prefer to receive Quotations on or before **Wednesday, October 9, 2013**. The City's office hours are 8:30 a.m. to 4:00 p.m., Monday to Friday, except statutory holidays.

4. INQUIRIES

All inquiries related to this Request for Quotations ("RFQ") should be directed in writing to the person named below (the "City Representative"). Information obtained from any other source other than the City Representative may not be relied upon.

Name: Kam Grewal, CMA, BBA, Corporate Audit Manager,
Acting Purchasing & Accounts Payable Manager
at the following location:

Address: City of Surrey, City Operations Works Yard,
Purchasing Section, 1st Floor
6645 – 148 Street
Surrey, BC V3S 3C7

Fax: 604-599-0956
E-mail: purchasing@surrey.ca

5. ADDENDA

If the City determines that an amendment is required to this RFQ, the City Representative will issue a written addendum by posting it on the BC Bid Website at www.bcbid.gov.bc.ca (the "BC Bid Website") and the City Website at www.surrey.ca (the "City Website") that will form part of this RFQ. It is the responsibility of Contractors to check the BC Bid Website and the City Website for addenda. The only way this RFQ may be added to, or amended in any way, is by a formal written addendum. No other communication, whether written or oral, from any person will affect or modify the terms of this RFQ or may be relied upon by any Contractor. By delivery of a Quotation, Contractor is deemed to have received, accepted and understood the entire RFQ, including any and all addenda.

6. DURATION OF QUOTATION

The Quotation will be open for acceptance by the City until:

- (a) the date specified in this RFQ or in a Quotation; or
- (b) as described in a subsequent written notice which the Contractor may send to the City.

7. NO CONTRACT

This RFQ is simply an invitation for quotations (including prices and terms) for the convenience of all parties. It is not a tender and no obligations of any kind will arise from this RFQ or the submission of Quotations. The City may negotiate changes to any terms of a Quotation, including terms in and Schedule A, Schedule B and Schedule C and including prices, and may negotiate with one or more Contractors or may at any time invite or permit the submission of quotations (including prices and terms) from other parties who have not submitted Quotations.

8. ACCEPTANCE

A Quotation will be an offer to the City which, subject to Section 6, the City may accept at any time by signing the copy of the Quotation and delivering it to the Contractor. A Quotation is not accepted by the City unless and until both the authorized signatory and the purchasing representative have signed the agreement on behalf of the City. Delivery of the signed agreement by the City may be by fax or email.

9. CONTRACTOR'S EXPENSES

Contractors are solely responsible for their own expenses in preparing and submitting Quotations, and for any meetings, negotiations or discussions with the City or its representatives and consultants, relating to or arising from the RFQ. The City will not be liable to any Contractor for any claims, whether for costs, expenses, losses or damages, or loss of anticipated profits, incurred by the Contractor in preparing and submitting a Quotation, or participating in negotiations for a contract, or other activity related to or arising out of this RFQ.

10. CONTRACTOR'S QUALIFICATIONS

By submitting a Quotation, a Contractor represents that it has the expertise, qualifications, resources, and relevant experience to supply the Goods and Services.

11. CONFLICT OF INTEREST

A Contractor must disclose in its Quotation any actual or potential conflicts of interest and existing business relationships it may have with the City, its elected or appointed officials or employees. The City may rely on such disclosure.

12. SOLICITATION OF COUNCIL MEMBERS, CITY STAFF AND CITY CONSULTANTS

Contractors and their agents will not contact any member of the City Council, City staff or City consultants with respect to this RFQ, other than the contact person named in Section 4, at any time prior to the award of a contract or the cancellation of this RFQ.

13. CONFIDENTIALITY

All Quotations become the property of the City and will not be returned to the Contractor. All Quotations will be held in confidence by the City unless otherwise required by law. Contractors should be aware the City is a "public body" defined by and subject to the *Freedom of Information and Protection of Privacy Act* of British Columbia.

14. SIGNATURE

The legal name of the person or firm submitting the Quotation should be inserted in the Quotation. The Quotation should be signed by a person authorized to sign on behalf of the Contractor and include the following:

- (a) If the Contractor is a corporation then the full name of the corporation should be included, together with the names of authorized signatories. The Quotation should be executed by all of the authorized signatories or by one or more of them

provided that a copy of the corporate resolution authorizing those persons to execute the Quotation on behalf of the corporation is submitted;

- (b) If the Contractor is a partnership or joint venture then the name of the partnership or joint venture and the name of each partner or joint venturer should be included, and each partner or joint venturer should sign personally (or, if one or more person(s) have signing authority for the partnership or joint venture, the partnership or joint venture should provide evidence to the satisfaction of the City that the person(s) signing have signing authority for the partnership or joint venture). If a partner or joint venturer is a corporation then such corporation should sign as indicated in subsection (a) above; or
- (c) If the Contractor is an individual, including a sole proprietorship, the name of the individual should be included.

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SCHEDULE A – SPECIFICATION OF GOODS

1. GENERAL DESCRIPTION

It is the intent of this specification to provide for the purchase of one (1) new and unused regenerative air street sweeper on a two axle truck chassis (6 wheels). The sweeper shall have as a minimum, dual sweeper controls and switches, 8.0 cubic yard hopper, automatic transmission, 240 gallon water tank, and left and right side broom with variable down pressure controlled from cab.

This unit will be used in a tight urban street cleaning application on uneven surfaces. It is to have a standard road package that meets all legal requirements for operation on public roadways, including the BC Motor Vehicle Act, the federal Motor Vehicle Safety Act, Work Safe BC Regulations, and to be built in accordance with SAE standards.

Preferred Specifications
1.1 Chassis shall be of cab-over-engine configuration
1.2 State chassis make, model and point of manufacture
1.3 Wheelbase shall not exceed 164 inches
1.4 One- (1) 50-gallon fuel tank shall be shared by both engines and shall be easily accessible without raising or shifting any components. A fuel gauge in cab, shall be supplied. Sight tube is not acceptable.
1.5 Diesel emissions shall be EPA 2010 and have a minimum capacity of 5 U.S. gallons diesel emissions fluid.
1.6 Front tow hooks and heavy-duty front bumper (capacity 2950 ft. lb.) shall be provided.
1.7 Chassis shall be a minimum of 33,000 lb GVW rating
1.8 Chassis yield strength of the Rail, High Strength, 120,000 PSI, 10" X 3" X .3125", 1.810,000 RBM.
1.9 For safety, the rear of the sweeper shall be equipped with a rear panel to provide under ride protection. When dumping debris, material shall not be discharged on top of the rear panel.
1.10 A CPL auto lube for both chassis and sweeper shall be provided
1.11 Chassis service manual on CD shall be included
2.1 Front axle shall have a capacity of 12,000lb and be equipped with taperleaf springs and shock absorbers.
2.2 Steering shall be full power with dual operator controls.
2.3 Rear axle capacity 21,000 lb
2.4 Rear springs, taper leaf with auxiliary springs, and shock absorbers
2.5 Rear axle two speed, 7.17 and 9.77 ratio for appropriate sweeping speeds
2.6 Lubricant, synthetic gear oil
3.1 Brakes shall be full air brakes S Cam with a 18.7 CFM capacity compressor, with automatic slack adjusters and ABS.
3.2 Parking brake shall be spring applied rear wheel drum and shoe.
3.3 Electric air dryer

Preferred Specifications

3.4 Air tanks, c/w auto air drain
3.5 Air tanks to meet federal and provincial law
4.1 Rims shall be 10 hole steel hub piloted 22.5 x 8.25
4.2 Front, Michelin steer tread 11R x 22.5 14 ply
4.3 Rear, Michelin traction tread 11R x 22.5 14 ply
5.1 Truck engine shall be 2010 Emission Compliant, Cummins ISB 6.7-200 or equivalent, turbocharged diesel, 200 HP @ 2600 RPM, 520ft-lbs. @ 1600 RPM.
5.2 Spin-on type oil filter
5.3 Engine block heater 120 volt, 1000 watt
5.4 Extended life coolant 50/50 mix. The cooling system shall be protected to -34° F.
5.5 Truck engine shall be equipped with a single vertical exhaust system. A rain cap for the exhaust pipe shall be provided
5.6 Air cleaner shall be a dry type air cleaner with a safety element and pre-cleaner on the air intake, with a cab dash mounted restrictor indicator
5.7 Radiator fan shall be viscous drive type.
5.8 An Allison 2500 RDS series (or approved equal) automatic transmission shall be provided.
6.1 Curbside seat shall be ISRI air suspension, adjustable dampener, cloth covered for air circulation and includes 3 point seat belts
6.2 Streetside seat shall be ISRI air suspension, adjustable dampener, cloth covered for air circulation and includes 3 point seat belts.
6.3 Sweeper shall include two (2) heated and remote controlled outside west coast type mirrors with lower 8 inch convex lens for easy viewing of the side broom during sweeping.
6.4 To maximize operator visibility of the curb and sweeping gear, outside mirrors shall be mounted forward of the front wheels.
6.5 For safety during night sweeping, switches shall be illuminated so that they can be readily identified without the use of the cab dome light.
6.6 Switches shall be clearly identified by name and symbol.
6.7 Cab interior environment shall be fully air-conditioned including a fresh air heater/ventilator/defroster.
6.8 Cab shall have full flow through ventilation for optimal temperature control and operator comfort.
6.9 Wipers shall have intermittent feature.
6.10 Interior of cab shall have acoustical insulation for low operating noise, automotive type trim, and center sweeper console.
6.11 All glass shall be tinted safety glass.
6.12 Each operator position shall have adjustable sun visor.
6.13 Doors shall be keyed alike locks.
6.14 Door windows shall be power vertical slide type with both windows operable from either operating position.
6.15 Side windows shall have defogger.
6.16 Cab shall include dash mounted cigar lighter type power outlet
6.17 Cab shall include AM/FM/CD radio with (2) speakers and antenna.

Preferred Specifications

7.1 Chassis left side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge and volt gauge.
7.2 Chassis right side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge and volt gauge.
7.3 Chassis engine instruments shall include warning light and chime for low coolant level and high coolant temperature to warn the operator of a potential problem before any damage to the engine occurs.
7.4 Dual under cab air horns shall be provided.
7.5 Console shall have left/right primary driver switch.
7.6 Hydraulic functions shall be controlled by rocker switches located in the cab mounted control panel.
7.7 Truck instruments shall include warning lights for battery and cab latch to make sure the cab is locked in position.
7.8 All console switches including transmission controls and all gauges shall be illuminated.
7.9 Intake mounted air restriction indicator with graduations.
8.1 Batteries should be located in an enclosed accessible environment for long life and ease of service.
8.2 Chassis shall have two (2) maintenance free batteries rated at not less than 1900 CCA total, 12 volt.
8.3 Chassis engine shall have a 130 amp alternator.
8.4 Chassis lighting shall include sealed multi-beam halogen DRL head-lights, stop lights, tail lights, backup lights, license plate lights, clearance lights, signal lights, illuminated gauges and instrument panel, and directional lights with hazard switch
8.5 LED stop/turn/tail lights shall be mounted in rear bumper
8.6 LED strobe lights mounted on front of cab and rear of hopper shall be provided
8.7 Rear mounted LED arrowstick shall be provided
9.1 Shared power is defined as a sweeper system that is power-driven by a combination of chassis and auxiliary engine horsepower. For gained economy, the sweeper system shall utilize horsepower captured by chassis regenerative braking.
9.2 At sweeping vehicle speed, the chassis engine shall be capable of propelling the vehicle and providing additional horsepower for sweeping functions via the shared power system. The chassis typically has a minimum of 50 hp (37 kW) available while at idle. Please refer to Chassis section 5.0 for type of chassis engine listed.
9.3 Auxiliary diesel engine shall be 4 cylinder, turbocharged, dynamically counter balanced. Engine must be EPA Tier 4i Emission compliant but subject to change based on EPA emission compliant engine availability and future emission regulatory changes. Tier 3 or lesser engines will not be considered.
9.4 Auxiliary engine horsepower rating shall be 74 (55 kW) @ 2400 RPM, torque 195 lb-ft @1700 RPM.
9.5 Fan drive shall be driven by a 5 "V" groove belt
9.6 Auxiliary engine shall have electric linear actuator for throttle control.

Preferred Specifications

9.7 To accommodate both easy access and sound attenuation, the engine 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.

6.8 A battery isolation switch shall be provided which is accessible by operator at ground level

6.9 Auxiliary engine shall be filled with 50/50 mixture anti-freeze/water for cold weather storage and or operation.

9.10 Auxiliary engine shall be protected by a dual safety element dry type air cleaner & restriction indicator that indicates it is time to service the filter element.

9.11 A turbo II pre-cleaner shall be provided

10.1 Blower shall be driven by a five (5) "V" groove power belt, with manual tension adjustment not requiring repositioning of the engine.

10.2 Shared power system shall provide all horsepower for fan speed of 3400 RPM to effectively convey the bulk of material into the debris hopper; debris types such as but not limited to trash, sand, gravel, dirt, leaves and other organics.

10.3 Blower shall be a closed face turbine type, Hardox® 500 steel for optimal combination of hardness and abrasion resistance for maximum service life. An open faced fan will not provide adequate combination of air flow and vacuum, and is not acceptable. Impellers constructed of material other than Hardox® 500 steel will not be accepted. For longevity of the fan and maximum bearing life, the impeller must be balanced to within .5 ounce-inches.

10.4 The blower housing shall be constructed of 10 gauge steel and lined with Linatex (or equal) for maximum extended wear in abrasive environments.

10.5 Blower housing shall have an inspection door for quick inspections without removing the blower housing or looking into the air exhaust opening.

10.6 Blower housing shall not be an integral part of the hopper. Should the replacement of the blower housing be necessary it shall be possible without any cutting and/or welding of the housing and or hopper.

10.7 The blower shall be mounted and supported on both sides by heavy-duty grease-able bearings. Greasing of the bearings must be possible from ground level, without tilting the hopper. Non- grease-able bearing are not acceptable.

10.8 The blower must not be directly exposed or open to the dust separator to preclude carry-over of material from the separator into the blower and blower housing.

10.9 A flow blocker shall be provided. The flow blocker will engage when sweeper is put into reverse or sweep mode is disengaged. It must also have an in cab switch for operator to engage at any time

11.1 The pickup head is a spring-balanced, all steel fabricated pickup head with separated upper and lower chambers where pressurized air is blasted from the upper chamber through an elongated blast orifice, to the lower vacuum chamber.

11.2 The pickup head shall be not less than 90 inches wide and 30 inches long for a total area of 2700 square inches.

11.3 The pickup head shall have a minimum of 14 inch diameter pressure hose that connects the blower outlet with the pickup head. Urethane transition pieces between the pressure hose and the pickup head are not acceptable.

Preferred Specifications

11.4 The pickup head shall have a minimum 12¾ inch diameter suction hose with a quick disconnect coupling at the lower area near the pickup head. The quick disconnect enables the operator to inspect the suction hose as well as the inlet area of the pickup head without tilting the hopper

11.5 The pressure side shall be equipped with an electric actuated pressure relief valve/vacuum enhancer/leaf bleeder, for optimum leaf and light debris sweeping. The control for this feature must be in-cab positional information for operator. Cable operated valves are not acceptable.

11.6 The front and rear debris curtains shall be removable without removing the pickup head from the unit.

11.7 Sweeping paths:

- Pickup head only = 90 inches
- One side broom and pickup head = 117 inches
- Two side brooms and pickup head = 144 inches

11.8 The pickup head shall be equipped with side mounted adjustable steel runners with carquotation inserts with a minimum width of 1 1/8 inches for maximum pickup performance and long life.

11.9 The pickup head shall be raised and lowered hydraulically by a rocker switch on the control panel inside the cab.

11.10 Suction hose shall have 3/8" minimum wall thickness

12.1 The right and left side broom shall be a free floating trailing arm design with inward motion to prevent damage when sweeping and encountering a fixed object.

12.2 The side brooms shall be 42-inch diameter minimum, wire filled, with hydraulically driven rotation.

12.3 Both side brooms shall tilt from within the cab by an electronically controlled linear actuator and show tilt angle in 0.5° increments in the sweeper console

12.4 Brooms shall be pneumatically raised, lowered and suspended.

12.5 Adjustable down pressure shall be pneumatically controlled from the cab by the operator.

12.6 Each side broom shall be controlled from the cab by simple rocker switches.

12.7 The side broom control system must allow the broom to be retracted while sweeping, to provide scrubbing action in front of the pickup head. This feature can be controlled from the operator seat.

12.8 The broom hydraulic motor drive shall provide not less than 6045 in-lbs. of torque for superior digging power.

12.9 The side broom assemblies shall be held in the storage position by a transport hook.

13.1 Volumetric capacity 8 cubic yards minimum preferred

13.2 Hopper shall be constructed of 10 gauge steel sides, and ¼ in. floor
Lifeline hopper system with lifetime corrosion warranty shall be provided. Bare steels including stainless steels are unacceptable as they do not provide sufficient protection for long term wear.
There shall be a safety prop to support the hopper in the raised position.

13.3 A weight actuated full load indicator shall be mounted in the cab on the control panel.

Preferred Specifications

13.4 The hopper floor angle shall be a minimum of 10° .
13.5 The hopper tilt angle when dumping shall be a minimum of 50° Dumping shall be accomplished via a single two-stage telescopic cylinder. The use of a moving raker bar which is attached to the rear door inside the hopper in lieu of tipping the hopper for dumping shall not be acceptable.
13.6 A removable, adjustable, abrasion resistant "scoop" style steel deflector shall be located at the suction inlet. This scoop is to direct material to the center of the hopper
13.7 The hopper rear door shall be hinged at the top of the door and opened by means of a hydraulic cylinder. The hopper rear door should open at a minimum angle of 90° to be perpendicular to the hopper opening for maximum dumping action. The hopper door shall have a door prop – this is a mandatory safety requirement
13.8 The hopper rear door shall include an automatic lock mechanism for a tight fit and optimal sealing between the hopper and the rear door. Foam seals that can absorb moisture and freeze are not acceptable.
13.9 Screens, of not less than 11 gauge steel shall be installed to allow air to move freely from the hopper into the centrifugal dust separator. The hopper screens shall be hinged and easily lowered for cleaning and inspection
13.10 Hydraulic cylinder shall be controlled by either the console mounted switches or the weather resistant switches located on the right-hand side of the hopper to view discharging of debris out of the hopper during dumping
13.11 Right side inspection door in the rear door with step shall be provided
13.12 A 6 in. hopper drain is on the hopper door. It allows draining off excess water. A screen mounted inside on the hopper door keeps larger debris from clogging the hose shall be provided
14.1 Dirt shall be separated from the air stream. The separator shall be designed so that it will not plug with regular debris
14.2 The dust separator shall have minimum of two easy to open inspection doors allowing inspection and cleaning of the separator interior. Both doors are self-opening when tilting the hopper.
14.3 The dust separator shall have a self-opening door made of abrasion resistant steel allowing automatic discharge of debris when tilting the hopper. Cable or other manual/mechanical means required for discharging the separator are not allowed.
15.1 The water tank shall be a removable, 240 gal. total capacity. Constructed of rust proof polyethylene and include a 2-1/2" air gap.
15.2 Option - An additional 140 gallon water tank mounted between the module and chassis shall be provided.
15.3 Option - An additional 360 gallon water tank mounted between the module and chassis shall be provided.
15.4 The water tank shall be frame mounted with no part sharing any common wall with the hopper and shall not raise during hopper dumping for better weight distribution
15.5 A 16 ft. 8 inch fill hose with NST coupling with strainer shall be supplied.
15.6 A water level gauge shall be provided on the control console within the cab
12.7 All water lines shall be color coded for easy identification.

Preferred Specifications

15.8 The water filter must be easy to access and clean without tilting the hopper. A ball valve must be provided at the filter inlet to allow cleaning of the filter without the loss of water from the water tank(s).
15.9 All water piping shall be external to the operator cab. No water lines capable of leaking or bursting shall be within the cab.
15.10 Three (3) water spray nozzles are located at each side broom for optimal dust control. A pivoting bracket is provided to allow for optimum positioning of the side broom spray nozzles
15.11 Seven (7) easily removable water spray nozzles are located inside the pickup head. Water spray nozzles that spray only on the outside of the pickup head are not acceptable.
15.12 Three (3) removable water spray nozzles are located at the lower portion of the suction hose for lubrication of the suction hose and to further enhance dust control.
15.13 Two electric 12 volt, diaphragm type pumps will provide a combined flow of 8 GPM @ 40PSI to the pickup head, the suction hose and the side brooms.
15.14 One water pump is fully dedicated to supplying water to the pickup head and the suction hose for optimal dust control.
15.15 One water pump is fully dedicated to the side brooms.
15.16 Each water pump must have two flow rates, selectable by the operator from within the cab and capable of running dry without damage
15.17 A front bumper mounted spray bar with 4 spray nozzles shall be provided
13.1 Hydraulic pump shall be a gear driven, gear style pump for maintenance free operation, having a flow capacity of 7.7 GPM @ 2500 RPM. A belt driven or PTO driven hydraulic pump is not acceptable.
16.2 Reservoir capacity shall be not less than 23 gallons and have an exterior sight gauge. The reservoir must be located in the enclosed auxiliary engine compartment for quick inspections without tilting the hopper. All hydraulic circuits shall have quick disconnect pressure check ports for ease of maintenance.
16.3 Hydraulic oil cooler shall be standard with fresh air intake and accessible without raising the hopper.
16.4 To minimize the hazards of potential leakage, all high pressure fittings shall be O-Ring Face Seal (ORFS) type. Other systems shall not be acceptable.
16.5 An auxiliary hydraulic pump allowing the opening of rear door and lifting of hopper without auxiliary engine running shall be provided. The pump shall be operated off the main truck engine
17.1 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.
17.2 A separate air tank for all sweeper air components shall be provided.
17.3 All pneumatic cylinders shall be interchangeable.
17.4 All pneumatic cylinders must be rated to 150 PSI and have a separate rod seal and wiper to prevent contamination entering the cylinder.
17.5 Each cylinder shall be controlled by a single, two position, solenoid valve mounted on a manifold with common input and exhaust.
17.6 There shall be a filter with a polycarbonate bowl to filter out contaminants down to 5 microns to prevent contamination in the air system.
18.1 Sweeper electrical system shall be independent from the electrical system of the chassis.
18.2 Sweeper engine shall have one (1) 945 CCA, 12 volt battery.
18.3 Sweeper engine shall have a 95 amp alternator.

Preferred Specifications

18.4 Sweeper shall have an electronic back-up alarm for additional warning and safety when chassis is in reverse.
18.5 Sweeper lighting shall include rear identification lights, side broom and rear clearance lights.
18.6 Two rear facing LED flood lights shall be supplied that illuminate the rear view during nighttime operation.
18.7 Two LED alternating flashing rear lights shall be provided
18.8 Sweeper warning lights shall include hopper up and hopper full load.
18.9 Sweeper wiring harnesses shall be color-coded and "function stamped" with appropriate circuit name every four inches, i.e. "Ignition", "Side Broom" on each wire.
18.10 All electrical circuits must be protected by automotive style blade fuses.
19.1 All sweeper controls shall be mounted on a stationary central console that allows for use from either right or left positions. This allows the operator to view all important auxiliary engine information from either operating position.
19.2 The controls shall include all sweep, spray water, and lighting functions.
19.3 The controls for sweeping, spray water, and lighting functions shall be conventional rocker switches.
19.4 Controls for auxiliary engine ignition, throttle and side broom down pressure shall be located in the control console.
20.1 Sweeper engine instruments shall include tachometer, hour meter, oil pressure, fuel, voltage, and coolant temperature for complete information for the operator on the condition of the auxiliary engine.
20.2 Sweeper instruments shall include diagnostic information for the sweeper engine and sweeper functional information to include sweeper engine hours, side broom hours, water level, vacuum enhancer position and hopper door position.
20.3 Sweeper engine instruments shall include an auxiliary engine air intake restriction gauge for ease of maintenance, a "raised" hopper indicator and a "full" hopper indicator to notify the operator of hopper load and hopper rear door conditions.
21.1 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 polyurethane's are not acceptable.
21.2 Colour shall be the City of Surrey's colour of "White".
21.3 Vehicle shall have an accent color of Grey on the components and lower portions of the unit.
22.1 2 x Operators manuals shall be provided for the sweeper, truck chassis, and auxiliary engine
22.2 1 x Service manual shall be provided for the sweeper, the truck chassis, and the auxiliary engine
22.3 1 x parts manual shall be provided for, the sweeper, the truck chassis, and the auxiliary engine
23.1 Manufacturer's warranty shall be not less than one (1) year on entire sweeper, including all parts and labor.
23.2 Manufacturer's warranty shall be not less than three (3) years on chassis engine, including all parts and labor.

Preferred Specifications
23.3 Manufacturer's warranty shall be not less than lifetime protection against rust-through of the water tank.
23.4 Contractors submitting literature stating warranties which do not fully comply with warranty requirements of this specification must submit a letter from the manufacturer certifying warranty compliance as an integral part of their proposal. Failure to comply may cause the proposal shall be deemed "non-responsive" and rejected without further review.
24.1 Vendors shall have a full parts and service facility within a reasonable distance from the City Garage. State location and distance.
24.2 A qualified technician shall provide complete training to City personnel at the City Garage. Training shall include safety, operation, maintenance and service.
24.2 Comprehensive training shall be provided onsite to sweeper operators. Please provide a training plan.
24.4 The proponent must provide detailed information on years in business in BC as a sweeper dealer, number of full sized regenerative air sweepers sold as BC dealer in past 15 years and provide a full list of municipal references for the quoted regenerative sweeper.
Options
25.1 An 8 in. diameter, 9.5 ft. long wandering hose located at the rear of the machine, capable of deep cleaning catch basins with controls shall be provided, along with 4' aluminum hose extension on rear
25.2 A low pressure washdown system with gun, wand and hose
25.3 Please include all other relevant options and pricing and specifications on separate form

2. EQUIVALENT PRODUCT

Quotations will be accepted for consideration on any make or model that is equal or superior to the sweeper specified. Decisions of equivalency will be at the sole interpretation of the Fleet and Garage Manager of Surrey's Engineering Department. A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal.

All modifications made to the standard production unit described in the manufacturer's brochures must be certified by the manufacturer and submitted with the quotation, or the quotation will be deemed "non-responsive" and rejected without further review. Contractor must be prepared to demonstrate a unit similar to the one proposed, if requested.

3. DELIVERY

The sweeper shall be delivered F.O.B. City of Surrey in first class operating condition.

Contractor shall state delivery time after receipt of order.

4. QUALITY

The sweeper shall be manufactured by a company with a registered quality standard no less than ISO 9001.

5. OPTIONAL ITEMS

The City of Surrey may choose, at its sole discretion, to add any or all of the optional items to this purchase. Contractor shall provide on a cover letter with a list of options and prices.

6. INSPECTION/DELIVERY

Each Contractor must state in their quotation submission the guaranteed delivery date in number of calendar days from the date after receipt of order (ARO).

The item(s) specified, with packing slips/delivery slips and/or other required documents are to be delivered F.O.B. Destination, full freight prepaid to:

City of Surrey
Fleet Services
6645 – 148th Street
Surrey, BC V3S 3C7

Attention: Keith Sharp, Fleet & Garage Manager

The Contractor is to notify the City's Fleet Services Department, not less than three (3) working days prior to expected delivery / arrival to permit inspection scheduling. An authorized representative of the Seller is to supervise delivery and off-loading to the City. The City will not assume any liability for vehicle/equipment delivered to an unauthorized location.

Documentation at time of Delivery:

Seller is to provide the following documentation upon delivery:

- Copy of Purchase Order and Original Invoice(s).
- Warranty Policy(ies) and/or certifications as may be required in the Specifications.
- Parts, service, operators and maintenance manual(s) as may be required in the Technical Specifications.

Each unit is to be delivered clean and shall be complete with all equipment operable. The unit(s) will be inspected by the City before delivery to determine compliance with the specifications and/or to test its ability to perform its intended use.

The Contractor will be responsible for securing any and all inspections required by law, including B.C. Provincial Inspection stickers. Any fee charged for these inspections will be the responsibility of the Contractor.

7. UNSUITABLE EQUIPMENT

Quotations will not be considered for vehicles that have previously failed to perform satisfactorily or from Contractors who have a history of performance problems with the City.

8. MANUFACTURER'S WARRANTY

The Contractor will be required to furnish a warranty by the manufacturer that the equipment bid on is suitable for the service intended, in accordance with the specifications defined herein. The Contractor shall agree to replace and install without charge [including all labour], within the scope of the warranty, any defective part or any parts that are determined by the City not to be suitable for the service intended.

The warranty period will go into effect at the time the vehicle is placed into service by the City. Contractors are to include a complete warranty statement with their quotation.

9. DEALERSHIP EMBLEMS/LOGOS

The Contractor will not install on the vehicle, any logos, nameplates or stickers denoting the name of the company or dealership that may be considered as advertising. Failure to comply with this requirement will result in the dealership being given the option to remove same, or reimburse the City for removal and restoration, if needed.

10. NEW VEHICLE

Equipment/vehicles are to be new and unused and not previously titled.

11. FACTORY INSTALLATION

Items that are available from the factory must be factory installed. If factory installation of an item is not available to the dealer and the dealer is making a dealer modification in order to meet the specification, it must be clearly noted in your response.

12. REJECTIONS

All materials or equipment shall be subject to inspection or test and shall meet the approval of the Fleet & Garage Manager and his decision shall be final and binding upon all parties. Such inspection, at the option of the City, may be carried out at the place of business of the Contractor and the Contractor shall assist the Fleet & Garage Manager, or his designate in the performance of his duties.

Should materials or equipment be defective in quality of workmanship or otherwise fail to conform to the specifications set forth, the Fleet & Garage Manager shall have the right to reject them or require their immediate correction.

Materials or equipment requiring correction shall be removed for correction or corrected in place as requested by the Fleet & Garage Manager at no expense to the City. Unavoidable expense encountered by the City shall be chargeable to the Contractor and deductible from any monies owing the Contractor by the City.

If the Contractor fails to take proper action promptly when requested by the Manager, Fleet & Garage, the City may replace or correct materials as necessary and charge the cost of such replacement to the Contractor or the City may terminate the Agreement as provided for herein.

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SCHEDULE B – GENERAL TERMS AND CONDITIONS

DEFINITIONS AND INTERPRETATION

1. In these General Terms and Conditions:
 - (a) "**Agreement**" has the meaning set out in Section 2;
 - (b) "**City**" means the City of Surrey;
 - (c) "**Contractor**" means a contractor whose Quotation has been accepted by the City and who is supplying the Goods under this Agreement;
 - (d) "**Goods**" means the equipment or materials that are the subject of this Agreement; and
 - (e) "**Purchase Price**" means the price quoted by the Contractor and accepted by the City, unless otherwise agreed by the parties in writing, and includes all taxes, duties, freight charges and other charges except PST and GST.

2. This Agreement may be modified only by express and specific written agreement. In the event of a conflict between the provisions of any documents listed below, then the documents shall govern and take precedence in the following order:
 - (a) these General Terms and Conditions;
 - (b) the specifications set out in Schedule A of the Request for Quotations ("**RFQ**");
 - (c) the RFQ;
 - (d) the Quotation; and
 - (e) other terms, if any, that are agreed to by the parties in writing.

GOODS

3. The Contractor will supply the Goods in accordance with this Agreement. The Goods supplied will meet the specifications set out in Schedule A of the RFQ and as described in the Quotation set out in Schedule C of the RFQ.

4. The Contractor will deliver the Goods free and clear of all liens and encumbrances in the manner and to the destination stipulated. In the event of the Contractor's failure to meet this condition, the Contractor will, on written notice from the City, forthwith return all monies paid by the City on account of the Goods and in addition the City may by written notice terminate this Agreement without liability, and in such event, in addition to the above, the Contractor will be liable for any and all expenses or losses incurred by the City resulting from such failure.

PURCHASE PRICE

5. The City will pay the Purchase Price to the Contractor in accordance with this Agreement. The Purchase Price shall also include without limitation all costs of boxing, packing, crating, and loading and unloading the Goods at the prescribed destination.

TIME

6. Time is of the essence.

PAYMENT

7. Invoices must include the Contractor's name, address and telephone number, the City's purchase order number, the Contractor's invoice number, the Contractor's GST registration number or an indication that it is not applicable if the Contractor is a small trader, the quantity, tax (if any) and the complete Purchase Price calculations, including extensions and discounts.

8. The City will pay the invoice, in the amount as the City determines is correct less any deductions for setoffs or holdbacks permitted by this Agreement including, without limitation, those described in Sections 10, 11 and 12, within 30 days of the receipt of the invoice, unless the parties have agreed in writing to other payment terms. The payment by the City of any invoice will not bind the City with respect to any subsequent payment or final payment and will not mean that the City has accepted that the Goods are in accordance with the requirements of this Agreement, or that the Contractor is in any manner released from its obligation to comply with this Agreement.
9. Unless otherwise provided, all dollar amounts referred to in this Agreement are in lawful money of Canada.

DEFICIENCIES

10. The City shall have a reasonable time to inspect and to accept the Goods. The City may reject any Goods not in accordance with this Agreement, whether due to damage resulting from improper packing, loading, unloading or otherwise. The City shall notify the Contractor of rejection of the Goods whereupon the Goods will be held subject to the disposition by the Contractor. Any costs or expenses incurred by the City as a result of the rejection of the Goods are, immediately upon written demand by the City, payable by the Contractor, and may be set off against any payments owing by the City to the Contractor.
11. The City may hold back from payments otherwise due to the Contractor up to 150% of a reasonable estimate, as determined by the City, on account of deficient or defective materials. This holdback may be held, without interest, until replacement Goods are received or such deficiency or defect is remedied.

DEFAULT AND TERMINATION

12. In the event the Contractor does not ship the Goods by the shipping date specified in this Agreement, or does not deliver the Goods by the delivery date specified in this Agreement, or otherwise fails to comply with the requirements of this Agreement, then:
 - (a) the City reserves the right to terminate this Agreement, in whole or in part, and in the event of such termination no payment will be owing by the City on account of this Agreement and the Contractor will be liable for any and all expenses or loss resulting from such failure or delay and will return all monies paid by the City; or
 - (b) if the City does not terminate this Agreement for late shipping or delivery, the City may deduct and set off from any payments owing to the Contractor all additional costs the City reasonably incurs on account of the late shipping or delivery.
13. The City may by written notice at any time cancel this Agreement with respect to Goods which, as of the date of cancellation, have not been shipped.
14. If the Contractor becomes insolvent or makes an assignment for the benefit of creditors or a receiver or trustee is appointed for the property of the Contractor, then the City may, at its election, and without prejudice to its rights at law or in equity, terminate this Agreement.
15. The City will not accept nor be responsible for any restocking charges for any Goods shipped to the City and then, for whatever reason, returned to the Contractor pursuant to this Agreement. The Contractor is to bear all costs including shipping and handling of returned Goods.

WARRANTIES AND INDEMNITIES

16. The Contractor warrants that the Goods shall be free from defects in design, materials, workmanship and title, shall conform in all respects to the terms of this Agreement, shall be fit and suitable and perform satisfactorily for the purposes and under the conditions made known to the Contractor by the City or which were reasonably inferable. The Goods shall be at least equal to the higher of national standards or codes (such as, by way of illustration, CSA or ASTM), or standards and codes customarily applicable at the place where the City will use the Goods. The Goods shall be of the best quality, if no quality is specified. This general warranty is independent of and without prejudice to any specific warranty or service guarantee offered by the Contractor or third party manufacturer or supplier of the Goods in connection with the purpose for which the Goods were purchased. The Contractor shall assign to the City any warranty or service guarantee offered by a third party manufacturer or supplier of the Goods. Notwithstanding this assignment, if at any time up to one year from the date of delivery or installation (if applicable) the City determines the Goods or any part do not conform to these warranties, the City shall notify the Contractor within a reasonable time after such discovery, and the Contractor shall then promptly correct such nonconformity at the Contractor's expense. Goods used to correct a nonconformity shall be similarly warranted for one year from the date of installation. The Contractor's liability shall extend to all liabilities, losses, damages, claims and expenses incurred by the City caused by any breach of any of the above warranties.
17. The Contractor warrants and guarantees that Goods delivered under this Agreement do not infringe any valid patent, copyright or trademark, foreign or domestic, owned or controlled by any other corporation, firm or person, and agrees to indemnify and save harmless the City and all of its elected and appointed officials, officers, employees, servants, representatives and agents (collectively the "**Indemnitees**"), from and against any and all claims, demands, causes of action, suits, losses, damages and costs, liabilities, expenses and judgments (including all actual legal costs) by reason of any claim, action or litigation arising out of any alleged or actual infringement of any patent, copyright or trademark, foreign or domestic, relating to the Goods supplied under this Agreement.
18. The Contractor represents and warrants that all Goods delivered under this Agreement shall comply with all applicable codes, statutes, by-laws, rules and regulations, of any federal, provincial, municipal or other competent authority for the time being in force, including any environmental laws and that the Goods are not dangerous to the environment or to person or health.
19. The Contractor will indemnify and save harmless the Indemnitees from and against all claims, demands, causes of action, suits, losses, damages and costs, liabilities, expenses and judgments (including all actual legal costs) for damage to or destruction or loss of property, including loss of use, and injury to or death of any person or persons which any of the Indemnitees incur, suffer or are put to arising out of or in connection with any failure, breach or non-performance by the Contractor of any obligation of this Agreement, or any wrongful or negligent act or omission of the Contractor or any employee or agent of the Contractor.

CUSTOMS

20. Documentation for shipments of Goods from outside Canada shall be provided by a Contractor by airmail and will include all documents as required by law or customary practice. All packages are to be marked as follows:

"Upon arrival, please contact customs broker:
Livingston International Inc.
Telephone: 604-685-3555
Fax: 604-605-8231
Email: cst19@livingstonintl.com"

INSPECTIONS

21. If this Agreement pertains to the fabrication, assembly or other processing of the Goods, representatives of the City shall be permitted free access at all reasonable times for the purpose of inspection, testing or obtaining information as to the progress of the fabrication, assembly or processing.

SAFETY

22. If this Agreement includes any inspection, installation or other work on the City's premises by the Contractor, or representative or subcontractor of the Contractor, all such activity shall be performed and undertaken in strict compliance with all applicable health and safety laws and regulations, including, without limitation, the Workers Compensation Act, the Occupational Health & Safety Regulation and the Hazardous Products Act, and also in strict compliance with any published and issued by the City for use at the City's premises. The Contractor shall provide the City with the Contractor's Workers Compensation Board registration number and a letter from the Workers Compensation Board confirming the supplier is registered in good standing with the Workers Compensation Board and that all assessments have been paid to the date thereof prior to the City having any obligation to pay monies under this Agreement.

WHMIS/MSDS

23. [INTENTIONALLY DELETED]

SHOP DRAWINGS

24. [INTENTIONALLY DELETED]

WAIVER

25. Any failure of the City at any time or from time to time to enforce or require the strict keeping or performance of any of the terms and conditions contained in this Agreement shall not constitute a waiver of the terms and conditions and shall not affect or impair the terms or conditions in any way or the City's right at any time to avail itself of any remedies as the City may have for any breach or breaches of the terms and conditions.

APPLICABLE LAW

26. This Agreement shall be governed by and construed in accordance with the laws of the Province of British Columbia. The City and the Contractor accept the jurisdiction of the courts of British Columbia and agree that any action under this Agreement shall be brought in such courts.

NOTICES

27. Any notice, report or other document that either party may be required or may wish to give to the other must be in writing, unless otherwise expressly provided for, and will be deemed to be validly given to and received by the addressee:
- (a) by hand, on delivery;
 - (b) by facsimile, on transmission; or
 - (c) by mail, five calendar days after posting.

The addresses for delivery will be as shown in Schedule C to the RFQ. In addition, the City may give notice to the Contractor by email at the Contractor's email address as shown in Schedule C to the RFQ, which email will be deemed to be validly given and received by the Contractor on transmission. The Contractor may not give notice to the City by email.

MERGER AND SURVIVAL

28. The representations, agreements, covenants and obligations set out in this Agreement, including without limitation Section 19, shall survive the delivery of the Goods and payment of the Purchase Price.

ENTIRE AGREEMENT

29. This Agreement, including any other documents expressly included by reference in this Agreement, contains the entire agreement of the parties regarding the provision of the Goods, and no understandings or agreements, oral or otherwise, exist between the parties except as expressly set out in this Agreement. This Agreement supersedes and cancels all previous agreements between the parties relating to the Goods.

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**SCHEDULE C
QUOTATION**

RFQ Title: THE PURCHASE OF ONE (1) ONLY REGENERATIVE AIR
ROAD SWEEPER ON CAB-OVER-ENGINE CONFIGURATION

RFQ No: 1220-040-2013-059

CONTRACTOR

Legal Name: _____

Address: _____

Phone: _____ Fax: _____

Email: _____

CITY OF SURREY

City's Representative: Kam Grewal, BBA, CMA
Acting Purchasing & AP Manager

Address: 6645 – 148 Street, Surrey, BC V3S 3C7

Phone: 604-590-7274 Fax: 604-599-0956

Email for PDF Files: purchasing@surrey.ca

- 1. The Contractor offers to supply to the City of Surrey the Goods for the prices plus applicable taxes as follows:

Year, Make & Model: _____

All costs to meet the minimum specifications shall be included in the following delivered prices.

UNIT PRICE: \$ _____ X 1 \$ _____

ENVIRONMENTAL LEVY [BATTERY]: \$ _____ X 1 \$ _____

TIRE STEWARDSHIP B.C. (TSBC) LEVY: \$ _____ X 1 \$ _____

SUB-TOTAL: \$ _____

GST: 5% = \$ _____

PST: 7% = \$ _____

TOTAL QUOTED PRICE: \$ _____

The completed unit shall be delivered within _____ days after receipt of purchase order.

Complete Vehicle: State Warranty (no less than one (1) year) _____

Warranty repairs shall be performed at _____

Please complete if applicable: British Columbia Certified

Note: Contractor is to submit all detailed warranty information as an appendix to this Quotation.

Payment Terms:

A cash discount of _____ % will be allowed if the invoices is paid within _____ days, or the ____ day of the month following, or net 30 days, on a best effort basis.

Note: Contractors are directed to list complete manufacturers' details of model proposed in the right-side column under manufacturers' specifications

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
1. Chassis			
1.1 Chassis shall be of cab-over-engine configuration	<input type="checkbox"/>	<input type="checkbox"/>	
1.2 State chassis make, model and point of manufacture			
1.3 Wheelbase shall not exceed 164 inches	<input type="checkbox"/>	<input type="checkbox"/>	
1.4 One- (1) 50-gallon fuel tank shall be shared by both engines and shall be easily accessible without raising or shifting any components. A fuel gauge in cab, shall be supplied. Sight tube is not acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
1.5 Diesel emissions shall be EPA 2010 and have a minimum capacity of 5 U.S. gallons diesel emissions fluid.	<input type="checkbox"/>	<input type="checkbox"/>	
1.6 Front tow hooks and heavy-duty front bumper (capacity 2950 ft. lb.) shall be provided.	<input type="checkbox"/>	<input type="checkbox"/>	
1.7 Chassis shall be a minimum of 33,000 lb GVW rating	<input type="checkbox"/>	<input type="checkbox"/>	
1.8 Chassis yield strength of the Rail, High Strength, 120,000 PSI, 10" X 3" X .3125", 1.810,000 RBM.	<input type="checkbox"/>	<input type="checkbox"/>	
1.9 For safety, the rear of the sweeper shall be equipped with a rear panel to provide under ride protection. When dumping debris, material shall not be discharged on top of the rear panel.	<input type="checkbox"/>	<input type="checkbox"/>	
1.10 A CPL auto lube for both chassis and sweeper shall be provided	<input type="checkbox"/>	<input type="checkbox"/>	
1.11 Chassis service manual on CD shall be included	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
2. Axles, Suspension			
2.1 Front axle shall have a capacity of 12,000lb and be equipped with taperleaf springs and shock absorbers.	<input type="checkbox"/>	<input type="checkbox"/>	
2.2 Steering shall be full power with dual operator controls.	<input type="checkbox"/>	<input type="checkbox"/>	
2.3 Rear axle capacity 21,000 lb	<input type="checkbox"/>	<input type="checkbox"/>	
2.4 Rear springs, taper leaf with auxiliary springs, and shock absorbers			
2.5 Rear axle two speed, 7.17 and 9.77 ratio for appropriate sweeping speeds	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 Lubricant, synthetic gear oil	<input type="checkbox"/>	<input type="checkbox"/>	
3. Brakes			
3.1 Brakes shall be full air brakes S Cam with a 18.7 CFM capacity compressor, with automatic slack adjusters and ABS.	<input type="checkbox"/>	<input type="checkbox"/>	
3.2 Parking brake shall be spring applied rear wheel drum and shoe.	<input type="checkbox"/>	<input type="checkbox"/>	
3.3 Electric air dryer	<input type="checkbox"/>	<input type="checkbox"/>	
3.4 Air tanks, c/w auto air drain	<input type="checkbox"/>	<input type="checkbox"/>	
3.5 Air tanks to meet federal and provincial law	<input type="checkbox"/>	<input type="checkbox"/>	
4. Wheels & Tires			
4.1 Rims shall be 10 hole steel hub piloted 22.5 x 8.25	<input type="checkbox"/>	<input type="checkbox"/>	
4.2 Front, Michelin steer tread 11R x 22.5 14 ply	<input type="checkbox"/>	<input type="checkbox"/>	
4.3 Rear, Michelin traction tread 11R x 22.5 14 ply	<input type="checkbox"/>	<input type="checkbox"/>	
5. Truck Engine and Transmission			
5.1 Truck engine shall be 2010 Emission Compliant, Cummins ISB 6.7-200 or equivalent, turbocharged diesel, 200 HP @ 2600 RPM, 520ft-lbs. @ 1600 RPM.	<input type="checkbox"/>	<input type="checkbox"/>	
5.2 Spin-on type oil filter	<input type="checkbox"/>	<input type="checkbox"/>	
5.3 Engine block heater 120 volt, 1000 watt	<input type="checkbox"/>	<input type="checkbox"/>	
5.4 Extended life coolant 50/50 mix. The cooling system shall be protected to -34° F.	<input type="checkbox"/>	<input type="checkbox"/>	
5.5 Truck engine shall be equipped with a single vertical exhaust system. A rain cap for the exhaust pipe shall be provided	<input type="checkbox"/>	<input type="checkbox"/>	
5.6 Air cleaner shall be a dry type air cleaner with a safety element and pre-cleaner on the air intake, with a cab dash mounted restrictor indicator	<input type="checkbox"/>	<input type="checkbox"/>	
5.7 Radiator fan shall be viscous drive type.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
5.8 An Allison 2500 RDS series (or approved equal) automatic transmission shall be provided.	<input type="checkbox"/>	<input type="checkbox"/>	
6. Cab			
6.1 Curbside seat shall be ISRI air suspension, adjustable dampener, cloth covered for air circulation and include 3 point seat belts	<input type="checkbox"/>	<input type="checkbox"/>	
6.2 Streetside seat shall be ISRI air suspension, adjustable dampener, cloth covered for air circulation and include 3 point seat belts.	<input type="checkbox"/>	<input type="checkbox"/>	
6.3 Sweeper shall include two (2) heated and remote controlled outside west coast type mirrors with lower 8 inch convex lens for easy viewing of the side broom during sweeping.	<input type="checkbox"/>	<input type="checkbox"/>	
6.4 To maximize operator visibility of the curb and sweeping gear, outside mirrors shall be mounted forward of the front wheels.	<input type="checkbox"/>	<input type="checkbox"/>	
6.5 For safety during night sweeping, switches shall be illuminated so that they can be readily identified without the use of the cab dome light.	<input type="checkbox"/>	<input type="checkbox"/>	
6.6 Switches shall be clearly identified by name and symbol.	<input type="checkbox"/>	<input type="checkbox"/>	
6.7 Cab interior environment shall be fully air-conditioned including a fresh air heater/ventilator/defroster.	<input type="checkbox"/>	<input type="checkbox"/>	
6.8 Cab shall have full flow through ventilation for optimal temperature control and operator comfort.	<input type="checkbox"/>	<input type="checkbox"/>	
6.9 Wipers shall have intermittent feature.	<input type="checkbox"/>	<input type="checkbox"/>	
6.10 Interior of cab shall have acoustical insulation for low operating noise, automotive type trim, and center sweeper console.	<input type="checkbox"/>	<input type="checkbox"/>	
6.11 All glass shall be tinted safety glass.	<input type="checkbox"/>	<input type="checkbox"/>	
6.12 Each operator position shall have adjustable sun visor.	<input type="checkbox"/>	<input type="checkbox"/>	
6.13 Doors shall be keyed alike locks.	<input type="checkbox"/>	<input type="checkbox"/>	
6.14 Door windows shall be power vertical slide type with both windows operable from either operating position.	<input type="checkbox"/>	<input type="checkbox"/>	
6.15 Side windows shall have defogger.	<input type="checkbox"/>	<input type="checkbox"/>	
6.16 Cab shall include dash mounted cigar lighter type power outlet	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
6.17 Cab shall include AM/FM/CD radio with (2) speakers and antenna.	<input type="checkbox"/>	<input type="checkbox"/>	
7. Instruments			
7.1 Chassis left side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge and volt gauge.	<input type="checkbox"/>	<input type="checkbox"/>	
7.2 Chassis right side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, oil pressure gauge, transmission temperature gauge, air pressure gauge and volt gauge.	<input type="checkbox"/>	<input type="checkbox"/>	
7.3 Chassis engine instruments shall include warning light and chime for low coolant level and high coolant temperature to warn the operator of a potential problem before any damage to the engine occurs.	<input type="checkbox"/>	<input type="checkbox"/>	
7.4 Dual under cab air horns shall be provided.	<input type="checkbox"/>	<input type="checkbox"/>	
7.5 Console shall have left/right primary driver switch.	<input type="checkbox"/>	<input type="checkbox"/>	
7.6 Hydraulic functions shall be controlled by rocker switches located in the cab mounted control panel.	<input type="checkbox"/>	<input type="checkbox"/>	
7.7 Truck instruments shall include warning lights for battery and cab latch to make sure the cab is locked in position.	<input type="checkbox"/>	<input type="checkbox"/>	
7.8 All console switches including transmission controls and all gauges shall be illuminated.	<input type="checkbox"/>	<input type="checkbox"/>	
7.9 Intake mounted air restriction indicator with graduations.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
8. Electrical			
8.1 Batteries should be located in an enclosed accessible environment for long life and ease of service.	<input type="checkbox"/>	<input type="checkbox"/>	
8.2 Chassis shall have two (2) maintenance free batteries rated at not less than 1900 CCA total, 12 volt.	<input type="checkbox"/>	<input type="checkbox"/>	
8.3 Chassis engine shall have a 130 amp alternator.	<input type="checkbox"/>	<input type="checkbox"/>	
8.4 Chassis lighting shall include sealed multi-beam halogen DRL head-lights, stop lights, tail lights, backup lights, license plate lights, clearance lights, signal lights, illuminated gauges and instrument panel, and directional lights with hazard switch	<input type="checkbox"/>	<input type="checkbox"/>	
8.5 LED stop/turn/tail lights shall be mounted in rear bumper	<input type="checkbox"/>	<input type="checkbox"/>	
8.6 LED strobe lights mounted on front of cab and rear of hopper shall be provided	<input type="checkbox"/>	<input type="checkbox"/>	
8.7 Rear mounted LED arrowstick shall be provided	<input type="checkbox"/>	<input type="checkbox"/>	
9. Auxiliary Engine			
9.1 Shared power is defined as a sweeper system that is power-driven by a combination of chassis and auxiliary engine horsepower. For gained economy, the sweeper system shall utilize horsepower captured by chassis regenerative braking.	<input type="checkbox"/>	<input type="checkbox"/>	
9.2 At sweeping vehicle speed, the chassis engine shall be capable of propelling the vehicle and providing additional horsepower for sweeping functions via the shared power system. The chassis typically has a minimum of 50 hp (37 kW) available while at idle. Please refer to Chassis section 5.0 for type of chassis engine listed.	<input type="checkbox"/>	<input type="checkbox"/>	
9.3 Auxiliary diesel engine shall be 4 cylinder, turbocharged, dynamically counter balanced. Engine must be EPA Tier 4i Emission compliant but subject to change based on EPA emission compliant engine availability and future emission regulatory changes. Tier 3 or lesser engines will not be considered.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
9.4 Auxiliary engine horsepower rating shall be 74 (55 kW) @ 2400 RPM, torque 195 lb-ft @1700 RPM.	<input type="checkbox"/>	<input type="checkbox"/>	
9.5 Fan drive shall be driven by a 5 "V" groove belt	<input type="checkbox"/>	<input type="checkbox"/>	
9.6 Auxiliary engine shall have electric linear actuator for throttle control.			
9.7 To accommodate both easy access and sound attenuation, the engine 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.	<input type="checkbox"/>	<input type="checkbox"/>	
6.8 A battery isolation switch shall be provided which is accessible by operator at ground level	<input type="checkbox"/>	<input type="checkbox"/>	
6.9 Auxiliary engine shall be filled with 50/50 mixture anti-freeze/water for cold weather storage and or operation.	<input type="checkbox"/>	<input type="checkbox"/>	
9.10 Auxiliary engine shall be protected by a dual safety element dry type air cleaner & restriction indicator that indicates it is time to service the filter element.	<input type="checkbox"/>	<input type="checkbox"/>	
9.11 A turbo II pre-cleaner shall be provided	<input type="checkbox"/>	<input type="checkbox"/>	
10. Blower Fan			
10.1 Blower shall be driven by a five (5) "V" groove power belt, with manual tension adjustment not requiring repositioning of the engine.	<input type="checkbox"/>	<input type="checkbox"/>	
10.2 Shared power system shall provide all horsepower for fan speed of 3400 RPM to effectively convey the bulk of material into the debris hopper; debris types such as but not limited to trash, sand, gravel, dirt, leaves and other organics.	<input type="checkbox"/>	<input type="checkbox"/>	
10.3 Blower shall be a closed face turbine type, Hardox® 500 steel for optimal combination of hardness and abrasion resistance for maximum service life. An open faced fan will not provide adequate combination of air flow and vacuum, and is not acceptable. Impellers constructed of material other than Hardox® 500 steel will not be accepted. For longevity of the fan and maximum bearing life, the impeller must be balanced to within .5 ounce-inches.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
10.4 The blower housing shall be constructed of 10 gauge steel and lined with Linatex (or equal) for maximum extended wear in abrasive environments.	<input type="checkbox"/>	<input type="checkbox"/>	
10.5 Blower housing shall have an inspection door for quick inspections without removing the blower housing or looking into the air exhaust opening.	<input type="checkbox"/>	<input type="checkbox"/>	
10.6 Blower housing shall not be an integral part of the hopper. Should the replacement of the blower housing be necessary it shall be possible without any cutting and/or welding of the housing and or hopper.	<input type="checkbox"/>	<input type="checkbox"/>	
10.7 The blower shall be mounted and supported on both sides by heavy-duty grease-able bearings. Greasing of the bearings must be possible from ground level, without tilting the hopper. Non-grease-able bearing are not acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
10.8 The blower must not be directly exposed or open to the dust separator to preclude carry-over of material from the separator into the blower and blower housing.	<input type="checkbox"/>	<input type="checkbox"/>	
10.9 A flow blocker shall be provided. The flow blocker will engage when sweeper is put into reverse or sweep mode is disengaged. It must also have an in cab switch for operator to engage at any time	<input type="checkbox"/>	<input type="checkbox"/>	
11. Pickup Head			
11.1 The pickup head is a spring-balanced, all steel fabricated pickup head with separated upper and lower chambers where pressurized air is blasted from the upper chamber through an elongated blast orifice, to the lower vacuum chamber.	<input type="checkbox"/>	<input type="checkbox"/>	
11.2 The pickup head shall be not less than 90 inches wide and 30 inches long for a total area of 2700 square inches.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
11.3 The pickup head shall have a minimum of 14 inch diameter pressure hose that connects the blower outlet with the pickup head. Urethane transition pieces between the pressure hose and the pickup head are not acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
11.4 The pickup head shall have a minimum 12¾ inch diameter suction hose with a quick disconnect coupling at the lower area near the pickup head. The quick disconnect enables the operator to inspect the suction hose as well as the inlet area of the pickup head without tilting the hopper	<input type="checkbox"/>	<input type="checkbox"/>	
11.5 The pressure side shall be equipped with an electric actuated pressure relief valve/vacuum enhancer/leaf bleeder, for optimum leaf and light debris sweeping. The control for this feature must be in-cab positional information for operator. Cable operated valves are not acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
11.6 The front and rear debris curtains shall be removable without removing the pickup head from the unit.	<input type="checkbox"/>	<input type="checkbox"/>	
11.7 Sweeping paths: <ul style="list-style-type: none"> • Pickup head only = 90 inches • One side broom and pickup head = 117 inches • Two side brooms and pickup head = 144 inches 	<input type="checkbox"/>	<input type="checkbox"/>	
<ul style="list-style-type: none"> • One side broom and pickup head = 117 inches • Two side brooms and pickup head = 144 inches 	<input type="checkbox"/>	<input type="checkbox"/>	
11.8 The pickup head shall be equipped with side mounted adjustable steel runners with carquotation inserts with a minimum width of 1 1/8 inches for maximum pickup performance and long life.	<input type="checkbox"/>	<input type="checkbox"/>	
11.9 The pickup head shall be raised and lowered hydraulically by a rocker switch on the control panel inside the cab.	<input type="checkbox"/>	<input type="checkbox"/>	
11.10 Suction hose shall have 3/8" minimum wall thickness	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
12. Side Brooms			
12.1 The right and left side broom shall be a free floating trailing arm design with inward motion to prevent damage when sweeping and encountering a fixed object.	<input type="checkbox"/>	<input type="checkbox"/>	
12.2 The side brooms shall be 42-inch diameter minimum, wire filled, with hydraulically driven rotation.	<input type="checkbox"/>	<input type="checkbox"/>	
12.3 Both side brooms shall tilt from within the cab by an electronically controlled linear actuator and show tilt angle in 0.5° increments in the sweeper console	<input type="checkbox"/>	<input type="checkbox"/>	
12.4 Brooms shall be pneumatically raised, lowered and suspended.	<input type="checkbox"/>	<input type="checkbox"/>	
12.5 Adjustable down pressure shall be pneumatically controlled from the cab by the operator.	<input type="checkbox"/>	<input type="checkbox"/>	
12.6 Each side broom shall be controlled from the cab by simple rocker switches.	<input type="checkbox"/>	<input type="checkbox"/>	
12.7 The side broom control system must allow the broom to be retracted while sweeping, to provide scrubbing action in front of the pickup head. This feature can be controlled from the operator seat.	<input type="checkbox"/>	<input type="checkbox"/>	
12.8 The broom hydraulic motor drive shall provide not less than 6045 in-lbs. of torque for superior digging power.	<input type="checkbox"/>	<input type="checkbox"/>	
12.9 The side broom assemblies shall be held in the storage position by a transport hook.	<input type="checkbox"/>	<input type="checkbox"/>	
13. Hopper			
13.1 Volumetric capacity 8 cubic yards minimum preferred			
13.2 Hopper shall be constructed of 10 gauge steel sides, and ¼ in. floor Lifeline hopper system with lifetime corrosion warranty shall be provided. Bare steels including stainless steels are unacceptable as they do not provide sufficient protection for long term wear. There shall be a safety prop to support the hopper in the raised position.	<input type="checkbox"/>	<input type="checkbox"/>	
13.3 A weight actuated full load indicator shall be mounted in the cab on the control panel.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
13.4 The hopper floor angle shall be a minimum of 10°.	<input type="checkbox"/>	<input type="checkbox"/>	
13.5 The hopper tilt angle when dumping shall be a minimum of 50° Dumping shall be accomplished via a single two-stage telescopic cylinder. The use of a moving raker bar which is attached to the rear door inside the hopper in lieu of tipping the hopper for dumping shall not be acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
13.6 A removable, adjustable, abrasion resistant "scoop" style steel deflector shall be located at the suction inlet. This scoop is to direct material to the center of the hopper	<input type="checkbox"/>	<input type="checkbox"/>	
13.7 The hopper rear door shall be hinged at the top of the door and opened by means of a hydraulic cylinder. The hopper rear door should open at a minimum angle of 90° to be perpendicular to the hopper opening for maximum dumping action. The hopper door shall have a door prop – this is a mandatory safety requirement	<input type="checkbox"/>	<input type="checkbox"/>	
13.8 - The hopper rear door shall include an automatic lock mechanism for a tight fit and optimal sealing between the hopper and the rear door. Foam seals that can absorb moisture and freeze are not acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
13.9 - Screens, of not less than 11 gauge steel shall be installed to allow air to move freely from the hopper into the centrifugal dust separator. The hopper screens shall be hinged and easily lowered for cleaning and inspection	<input type="checkbox"/>	<input type="checkbox"/>	
13.10 - Hydraulic cylinder shall be controlled by either the console mounted switches or the weather resistant switches located on the right-hand side of the hopper to view discharging of debris out of the hopper during dumping	<input type="checkbox"/>	<input type="checkbox"/>	
13.11 - Right side inspection door in the rear door with step shall be provided	<input type="checkbox"/>	<input type="checkbox"/>	
13.12 - A 6 in. hopper drain is on the hopper door. It allows draining off excess water. A screen mounted inside on the hopper door keeps larger debris from clogging the hose shall be provided	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
14. Dust Separator			
14.1 Dirt shall be separated from the air stream. The separator shall be designed so that it will not plug with regular debris	<input type="checkbox"/>	<input type="checkbox"/>	
14.2 The dust separator shall have minimum of two easy to open inspection doors allowing inspection and cleaning of the separator interior. Both doors are self-opening when tilting the hopper.	<input type="checkbox"/>	<input type="checkbox"/>	
14.3 The dust separator shall have a self-opening door made of abrasion resistant steel allowing automatic discharge of debris when tilting the hopper. Cable or other manual/mechanical means required for discharging the separator are not allowed.	<input type="checkbox"/>	<input type="checkbox"/>	
15. Spray Water System			
15.1 The water tank shall be a removable, 240 gal. total capacity. Constructed of rust proof polyethylene and include a 2-1/2" air gap.	<input type="checkbox"/>	<input type="checkbox"/>	
15.2 Option - An additional 140 gallon water tank mounted between the module and chassis shall be provided.	<input type="checkbox"/>	<input type="checkbox"/>	
15.3 Option - An additional 360 gallon water tank mounted between the module and chassis shall be provided.	<input type="checkbox"/>	<input type="checkbox"/>	
15.4 The water tank shall be frame mounted with no part sharing any common wall with the hopper and shall not raise during hopper dumping for better weight distribution	<input type="checkbox"/>	<input type="checkbox"/>	
15.5 A 16 ft. 8 inch fill hose with NST coupling with strainer shall be supplied.	<input type="checkbox"/>	<input type="checkbox"/>	
15.6 A water level gauge shall be provided on the control console within the cab	<input type="checkbox"/>	<input type="checkbox"/>	
12.7 All water lines shall be color coded for easy identification.	<input type="checkbox"/>	<input type="checkbox"/>	
15.8 The water filter must be easy to access and clean without tilting the hopper. A ball valve must be provided at the filter inlet to allow cleaning of the filter without the loss of water from the water tank(s).	<input type="checkbox"/>	<input type="checkbox"/>	
15.9 All water piping shall be external to the operator cab. No water lines capable of leaking or bursting shall be within the cab.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
15.10 Three (3) water spray nozzles are located at each side broom for optimal dust control. A pivoting bracket is provided to allow for optimum positioning of the side broom spray nozzles	<input type="checkbox"/>	<input type="checkbox"/>	
15.11 Seven (7) easily removable water spray nozzles are located inside the pickup head. Water spray nozzles that spray only on the outside of the pickup head are not acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
15.12 Three (3) removable water spray nozzles are located at the lower portion of the suction hose for lubrication of the suction hose and to further enhance dust control.	<input type="checkbox"/>	<input type="checkbox"/>	
15.13 Two electric 12 volt, diaphragm type pumps will provide a combined flow of 8 GPM @ 40PSI to the pickup head, the suction hose and the side brooms.	<input type="checkbox"/>	<input type="checkbox"/>	
15.14 One water pump is fully dedicated to supplying water to the pickup head and the suction hose for optimal dust control.	<input type="checkbox"/>	<input type="checkbox"/>	
15.15 One water pump is fully dedicated to the side brooms.	<input type="checkbox"/>	<input type="checkbox"/>	
15.16 Each water pump must have two flow rates, selectable by the operator from within the cab and capable of running dry without damage	<input type="checkbox"/>	<input type="checkbox"/>	
15.17 A front bumper mounted spray bar with 4 spray nozzles shall be provided.	<input type="checkbox"/>	<input type="checkbox"/>	
16. Hydraulic System			
16.1 Hydraulic pump shall be a gear driven, gear style pump for maintenance free operation, having a flow capacity of 7.7 GPM @ 2500 RPM. A belt driven or PTO driven hydraulic pump is not acceptable	<input type="checkbox"/>	<input type="checkbox"/>	
16.2 Reservoir capacity shall be not less than 23 gallons and have an exterior sight gauge. The reservoir must be located in the enclosed auxiliary engine compartment for quick inspections without tilting the hopper. All hydraulic circuits shall have quick disconnect pressure check ports for ease of maintenance.	<input type="checkbox"/>	<input type="checkbox"/>	
16.3 Hydraulic oil cooler shall be standard with fresh air intake and accessible without raising the hopper.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
16.4 To minimize the hazards of potential leakage, all high pressure fittings shall be O-Ring Face Seal (ORFS) type. Other systems shall not be acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
16.5 An auxiliary hydraulic pump allowing the opening of rear door and lifting of hopper without auxiliary engine running shall be provided. The pump shall be operated off the main truck engine.	<input type="checkbox"/>	<input type="checkbox"/>	
17. Pneumatic System			
17.1 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.	<input type="checkbox"/>	<input type="checkbox"/>	
17.2 A separate air tank for all sweeper air components shall be provided.	<input type="checkbox"/>	<input type="checkbox"/>	
17.3 All pneumatic cylinders shall be interchangeable.	<input type="checkbox"/>	<input type="checkbox"/>	
17.4 All pneumatic cylinders must be rated to 150 PSI and have a separate rod seal and wiper to prevent contamination entering the cylinder.	<input type="checkbox"/>	<input type="checkbox"/>	
17.5 Each cylinder shall be controlled by a single, two position, solenoid valve mounted on a manifold with common input and exhaust.	<input type="checkbox"/>	<input type="checkbox"/>	
17.6 There shall be a filter with a polycarbonate bowl to filter out contaminants down to 5 microns to prevent contamination in the air system.	<input type="checkbox"/>	<input type="checkbox"/>	
18. Electrical System			
18.1 Sweeper electrical system shall be independent from the electrical system of the chassis.	<input type="checkbox"/>	<input type="checkbox"/>	
18.2 Sweeper engine shall have one (1) 945 CCA, 12 volt battery.	<input type="checkbox"/>	<input type="checkbox"/>	
18.3 Sweeper engine shall have a 95 amp alternator.	<input type="checkbox"/>	<input type="checkbox"/>	
18.4 Sweeper shall have an electronic back-up alarm for additional warning and safety when chassis is in reverse.	<input type="checkbox"/>	<input type="checkbox"/>	
18.5 Sweeper lighting shall include rear identification lights, side broom and rear clearance lights.	<input type="checkbox"/>	<input type="checkbox"/>	
18.6 Two rear facing LED flood lights shall be supplied that illuminate the rear view during nighttime operation.	<input type="checkbox"/>	<input type="checkbox"/>	
18.7 Two LED alternating flashing rear lights shall be provided	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
18.8 Sweeper warning lights shall include hopper up and hopper full load.	<input type="checkbox"/>	<input type="checkbox"/>	
18.9 Sweeper wiring harnesses shall be color-coded and "function stamped" with appropriate circuit name every four inches, i.e. "Ignition", "Side Broom" on each wire.	<input type="checkbox"/>	<input type="checkbox"/>	
18.10 All electrical circuits must be protected by automotive style blade fuses.	<input type="checkbox"/>	<input type="checkbox"/>	
19 Controls			
19.1 All sweeper controls shall be mounted on a stationary central console that allows for use from either right or left positions. This allows the operator to view all important auxiliary engine information from either operating position.	<input type="checkbox"/>	<input type="checkbox"/>	
19.2 The controls shall include all sweep, spray water, and lighting functions.	<input type="checkbox"/>	<input type="checkbox"/>	
19.3 The controls for sweeping, spray water, and lighting functions shall be conventional rocker switches.	<input type="checkbox"/>	<input type="checkbox"/>	
19.4 Controls for auxiliary engine ignition, throttle and side broom down pressure shall be located in the control console.	<input type="checkbox"/>	<input type="checkbox"/>	
20. Instruments			
20.1 Sweeper engine instruments shall include tachometer, hour meter, oil pressure, fuel, voltage, and coolant temperature for complete information for the operator on the condition of the auxiliary engine.	<input type="checkbox"/>	<input type="checkbox"/>	
20.2 Sweeper instruments shall include diagnostic information for the sweeper engine and sweeper functional information to include sweeper engine hours, side broom hours, water level, vacuum enhancer position and hopper door position.	<input type="checkbox"/>	<input type="checkbox"/>	
20.3 Sweeper engine instruments shall include an auxiliary engine air intake restriction gauge for ease of maintenance, a "raised" hopper indicator and a "full" hopper indicator to notify the operator of hopper load and hopper rear door conditions.	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
21. Paint			
21.1 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 polyurethane's are not acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	
21.2 Colour shall be the City of Surrey's colour of "White".	<input type="checkbox"/>	<input type="checkbox"/>	
21.3 Vehicle shall have an accent color of Grey on the components and lower portions of the unit.	<input type="checkbox"/>	<input type="checkbox"/>	
22. Manuals			
22.1 2 x Operators manuals shall be provided for the sweeper, truck chassis, and auxiliary engine	<input type="checkbox"/>	<input type="checkbox"/>	
22.2 1 x Service manual shall be provided for the sweeper, the truck chassis, and the auxiliary engine	<input type="checkbox"/>	<input type="checkbox"/>	
22.3 1 x parts manual shall be provided for, the sweeper, the truck chassis, and the auxiliary engine	<input type="checkbox"/>	<input type="checkbox"/>	
23. Warranty			
23.1 Manufacturer's warranty shall be not less than one (1) year on entire sweeper, including all parts and labor.	<input type="checkbox"/>	<input type="checkbox"/>	
23.2 Manufacturer's warranty shall be not less than three (3) years on chassis engine, including all parts and labor.	<input type="checkbox"/>	<input type="checkbox"/>	
23.3 Manufacturer's warranty shall be not less than lifetime protection against rust-through of the water tank.	<input type="checkbox"/>	<input type="checkbox"/>	
23.4 Contractors submitting literature stating warranties which do not fully comply with warranty requirements of this specification must submit a letter from the manufacturer certifying warranty compliance as an integral part of their proposal. Failure to comply may cause the proposal shall be deemed "non-responsive" and rejected without further review.	<input type="checkbox"/>	<input type="checkbox"/>	
24. Service and Training			
24.1 Vendors shall have a full parts and service facility within a reasonable distance from the City Garage. State location and distance	<input type="checkbox"/>	<input type="checkbox"/>	

Preferred Specifications	√ (Yes)	√ (No)	Manufacturers' Specifications of Equipment offered. Contractor shall complete all spaces in this column.
24.2 A qualified technician shall provide complete training to City personnel at the City Garage. Training shall include safety, operation, maintenance and service.	<input type="checkbox"/>	<input type="checkbox"/>	
24.2 Comprehensive training shall be provided onsite to sweeper operators. Please provide a training plan.	<input type="checkbox"/>	<input type="checkbox"/>	
24.4 The proponent must provide detailed information on years in business in BC as a sweeper dealer, number of full sized regenerative air sweepers sold as BC dealer in past 15 years and provide a full list of municipal references for the quoted regenerative sweeper.	<input type="checkbox"/>	<input type="checkbox"/>	
25. Options – Please provide pricing and specifications			
25.1 An 8 in. diameter, 9.5 ft. long wandering hose located at the rear of the machine, capable of deep cleaning catch basins with controls shall be provided, along with 4' aluminum hose extension on rear			
25.2 A low pressure washdown system with gun, wand and hose			
25.3 Please include all other relevant options and pricing and specifications on a separate form			

2. If this offer is accepted by the City, such offer and acceptance will create a contract as described in:
 - (a) the RFQ;
 - (b) the specifications set out above and in Schedule A of the RFQ;
 - (c) the General Terms and Conditions; and
 - (d) this Quotation; and
 - (e) other terms, if any, that are agreed to by the parties in writing.

3. Capitalized terms used and not defined in this Quotation will have the meanings given to them in the RFQ. Except as specifically modified by this Quotation, all terms, conditions, representations, warranties and covenants as set out in the RFQ will remain in full force and effect.

4. The Contractor will meet or exceed each item in the specifications as written: YES NO . If No, any minor deviations from the stated specifications are backed up by the enclosed manufacturer or dealer's detailed description of each variation with reference made to each item to which the variation will apply.

5. The location of the nearest factory authorized warranty repair facility / parts dealership:

6. The Contractor to indicate on each line provided in **Schedule C** if they comply with the Quote items as specified or are taking exception to the Quote items specified.

If additional space is required to fully explain Quote exception(s), attach additional page(s) to the Quotation and indicate the section number and subsection that has the exception and provide explanation.

If more than one (1) make or model is to be offered, copy the specification sheets to submit separate Quotation sheets for each item to be evaluated.

Note: Failure to provide all of the information in **Schedule C** does not relieve the Contractor of the responsibility of supplying all of the necessary items and/or complying with all of the conditions of this Quotation. Complete all pages of **Schedule C**.

7. I/We the undersigned duly authorized representatives of the Contractor, having received and carefully reviewed the RFQ including without limitation the Specifications and the General Terms and Conditions, submit this Quotation in response to the RFQ.

IN WITNESS WHEREOF the parties hereto, by their respective representatives duly authorized in that behalf, have caused this agreement to be executed as of the date set out above written.

This Quotation is offered by the Contractor this _____ day of _____, 20__.

CONTRACTOR

by its authorized signatory:

(Legal Name of Contractor)

(Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory)

This Quotation is offered by the Contractor this _____ day of _____, 20__.

CITY OF SURREY

by its authorized signatory:

(Signature of Authorized Signatory)

(Print Name and Position of Authorized Signatory)