

City of Coquitlam

Request for Proposals

RFP No. 23-030

One (1) Street Sweeper

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SUMMARY OF KEY INFORMATION

RFP Reference	RFP No. 23-030 One (1) Street Sweeper
Overview of the Opportunity	The purpose of this RFP is to invite proposals from qualified firms for the supply and delivery of One (1) Street Sweeper as specified within this RFP document.
Closing Date and Time	2:00 pm local time Friday, February 10, 2023
Instructions for Proposal Submission	Proposals are to be consolidated into one PDF file and uploaded electronically through QFile, the City’s file transfer service accessed at qfile.coquitlam.ca/bid 1. In the “Subject Field” enter: RFP Number and Name 2. Add files in .pdf format and Send (Ensure your web browser remains open until you receive 2 emails from QFile to confirm receipt.) Phone 604-927-3060 should assistance be required. The City reserves the right to accept Proposals received after the Closing Date and Time.
Obtaining RFP Documents	RFP Documents are available for download from the City of Coquitlam’s website: https://www.coquitlam.ca/Bid-Opportunities Printing of RFP documents is the sole responsibility of the Proponents.
Instructions to Proponents	The guidelines for participation that will apply to this RFP are posted on the City’s website: Instructions to Proponents
Questions	Questions are to be submitted in writing quoting the RFP number and name up to 3 business days before the Closing Date sent to email: bid@coquitlam.ca
Addenda	Proponents are required to check the City’s website for any updated information and addenda issued, before the Closing Date at the following website: https://www.coquitlam.ca/Bid-Opportunities
Withdrawal of Submission	Proposals may be withdrawn by written notice only, made by an authorized representative of the Proponent sent to email: bid@coquitlam.ca prior to the Closing Date and Time.
Terms and Conditions of Contract	City of Coquitlam Standard Terms and Conditions - Purchase of Goods and Services are posted on the City’s website and will apply to the Contract awarded as a result of this RFP.

DEFINITIONS

“Agreement” “Contract” means the contract for services or City Purchase Order that will be issued to formalize with the successful Proponent through negotiation process with the City based on the proposal submitted and will incorporate by reference the Request for Proposals, Specifications, Drawings, any additional subsequent information, any addenda issued, the Proponent’s response and acceptance by the City.

“City” “Owner” means City of Coquitlam;

“CMVSS” means Canadian Motor Vehicle Safety Standards

“Price” means the amount that will be paid by the City to the Contractor for delivery and acceptance of goods and Services;

“Project Manager” means the City staff member appointed to coordinate the work;

“Proponent” means responder to this Request for Proposals;

“Proposal” means the submission by the Proponent;

“Request for Proposals” “RFP” shall mean and include the complete set of documents, specifications and addenda incorporated herein, and included in this Request for Proposals;

“Services” “Work” “Works” means and includes the provision by the successful Proponent of all services, duties, and expectations as further described in this RFP. This will also mean the whole of the work, tools, materials, labour, equipment, travel, and all that is required to be done, furnished and performed by the Contractor;

“Shall” “Must” “Will” “Mandatory” means a requirement that must be met;

“Supply” “Provide” shall mean supply and pay for and provide and pay for.

“Supplier” means the person(s) firm(s) or corporation(s) appointed by the City to carry out all duties, obligations, work and services described in the Request for Proposal and all associated documentation, which may also include mutually agreed revisions subsequent to submission of a Proposal. Both “Supplier” and “Proponent” are complementary in terms of duties, obligations and responsibilities contemplated at the Request for Proposals stage, through evaluation process, execution and performance of the services and works.

1 INSTRUCTIONS TO PROPONENTS

1.1 Purpose

The purpose of this RFP is to invite proposals from qualified, experienced companies for the supply and delivery of **One (1) Street Sweeper** as stated within this RFP. Equipment shall be new and that which has never been owned except by a manufacturer, distributor or dealer and has never been registered.

The City is seeking to identify and select qualified Suppliers that have the knowledge, technical resources, experience, reputation and capacity to supply, deliver and provide continuous support for the equipment.

1.2 Proposal Submission

Proponents should complete and submit the information requested in this RFP document on the **Proposal Submission Form** and [APPENDIX A – PREFERRED SPECIFICATIONS](#) or in a format that has been approved and is acceptable to the City.

1.3 Instructions to Proponents

Proponents are advised that the rules for participation that will apply to this RFP are located: [Instructions to Proponents](#).

By submission of a Proposal in response to this RFP, the Proponent agrees and accepts the rules by which the bid process will be conducted.

The City will not be responsible for any delay or for any submission not received for any reason, including technological delays or issues by either party's network or email program, and the City will not be liable for any damages associated with submissions not received.

1.4 Specifications and Alternatives

Wherever the Specifications state a brand name, make, name of manufacturer, trade name, or Supplier catalogue number, it is for the purpose of establishing a grade or standard. It is not intended to rule out competition from equal brands or makes. If vehicles or equipment other than that specified is offered, it is the Proponent's responsibility to provide information in its Proposal that enables the City to confirm equivalency and acceptance.

Except where stated otherwise, Appendix A – Preferred Specifications, describe what is considered necessary to meet the performance requirements of the City and Proponents should consider this in its Proposal. If the Proponent cannot meet Specifications, the Proponent may identify and offer an alternative which it believes to be an equal or better alternative.

Special consideration may be given to accessibility of the various units which require periodic maintenance and ease of operation.

Proponents shall clearly indicate any variances from the City's Specifications or conditions and attach descriptive literature.

Proponents may also propose alternative equipment which meets the majority of the specifications if it is immediately available for delivery. The City will review proposed alternative equipment for suitability in order to take delivery sooner; however, the City is not

obligated to accept any alternatives. The City will determine what constitutes acceptable deviations and overall best value.

Proponents are to provide environmentally efficient equipment and services wherever possible. If there are known alternatives or substitutions for such materials that would mitigate the effects of any adverse conditions on the environment, the Proponent agrees to advise the City of such alternatives or substitutions.

1.5 Requested Departures

The Proponent acknowledges that the departures requested in the Proposal Submission Form will not form part of the Contract unless and until the City specifically consents in writing to any of them. The City may not consider any departures not stated in the Proponent's Proposal Submission.

1.6 Evaluation Criteria

Evaluation Criteria of each proposal will be determined in accordance with the following:

Proposal Evaluation Summary	Maximum Points to be Awarded
Corporate Experience, Reputation, Capacity and Resources	30
Technical	30
Financial and Value Added	40
Total	100

The criteria for evaluation of the Proposals may include, but is not limited to:

Corporate Experience, Reputation, Capacity and Resources

- Business and technical reputation and capabilities; experience, financial stability, capacity and resources
- References (on time delivery, support, performance, etc.)

Technical

- Delivery Lead Time
- Compliance with the preferred specifications
- Ease of operation
- Maintenance requirements
- Maintenance - Local support and parts availability in Metro Vancouver area
- Warranties
- Training
- Demonstration Unit

Financial and Value Added

- Financial offer including, but not limited to, prices, operating and maintenance costs, warranty, and any life cycle considerations

- Value Added / Sustainable benefits

These criteria will be used to determine best overall value to the City. Proposals will be compared to select one or more that are most advantageous.

And, upon selection of one or more lead Proponent(s):

- References may be contacted
- Interviews may be conducted

The City reserves the right to check references on other projects even if they are not specifically listed. Information obtained from references will be confidential and will not be disclosed to any Proponents.

These criteria will be used to determine best overall value to the City as well as any other criteria that may become evident during the evaluation process.

The City may, at its discretion, request clarification or additional information from a Proponent with respect to any Proposal and the City may make such requests to only selected Proponents. The City may consider such clarifications or additional information in evaluating a Proposal.

Incomplete Proposals or Proposals submitted on forms other than the Proposal Form may be rejected.

Proponents agree the City may disclose names of Proponents and total award amount, however, unevaluated results, unit prices, rates or scores will not be provided to any Proponents.

The City reserves the right to reject without further consideration any Proposal which in its opinion does not meet the criteria it considers essential for the work outlined in this RFP.

Where only one Proposal is received, the City may reject such and re-issue the RFP on a selected basis.

1.7 Eligibility

For eligibility, and as a condition of award, the successful Proponent would be required to meet or provide the equivalent:

- a) Accept the City's standard Terms and Conditions posted on the City's website: [Standard Terms and Conditions - Purchase of Goods and Services](#)
- b) A City of Coquitlam or Tri Cities Intermunicipal [Business License](#)

1.8 Warranties

The Proponent shall provide a full statement of the warranty period and terms, including extended warranty options, for items listed in [APPENDIX A – PREFERRED SPECIFICATIONS](#), as a minimum. This warranty should clearly describe the terms under which the equipment manufacturer or sub-suppliers of the manufacturer accept responsibility for the cost to repair defects caused by faulty design, quality of work or material and for the applicable period of time after delivery.

1.9 Prices

Prices shall be all-inclusive and stated in (Canadian Funds). Prices shall remain FIRM for the delivery of equipment and completion of the Services.

Supply and delivery of materials is to be included in the price, FOB, Freight Prepaid to:

**City of Coquitlam
Works Yard West
500 Mariner Way
Coquitlam, BC, V3K 7B6**

Prices shall include the provision of all tools, materials, equipment, labour, transportation, fuel, supervision, management, overhead, materials, traffic control, services, all necessary packing and crating (where applicable), Canadian Customs import and export duties, freight, handling, insurance, all other associated or related charges, foreign, federal, provincial and municipal taxes, bonding costs, all licences, permits, inspections and all other requirements necessary for the commencement, performance and completion of Services as described.

Taxes are to be shown separately at time of invoicing.

The lowest price of any Proposal will not necessarily be accepted but will be analyzed to determine best overall value.

1.10 Fleet Standard Model and Preferred Dealer

At the City's sole discretion, the results of this RFP may also be used to establish a **City Fleet Standard Model and a Preferred Dealer** for purchase of additional units should the City require additional similar equipment for the next one (1) year.

The City's decision to direct award to the successful proponent would be subject to mutual acceptance of price and availability.

Alternatively, the City may issue a new RFP for additional equipment.

2 **GENERAL CONDITIONS OF CONTRACT**

2.1 Terms and Conditions of Contract

The City's [Standard Terms and Conditions - Purchase of Goods and Services](#), as published on the City's website, the Conditions listed in this RFP, along with the accepted Proposal, addenda and any subsequent clarifications, correspondence, the totality of which will constitute the Contract.

3 SCOPE OF SERVICES

3.1 General Requirements

The Supplier is to provide **One (1) Street Sweeper** to be used in a municipal environment as specified in [APPENDIX A – PREFERRED SPECIFICATIONS](#).

The unit is to be the current production model with all the latest updates including, where requested, all manuals, instructions, training and requested spare parts.

The Services include, but are not limited to:

- Supply and Delivery of the equipment proposed;
- Provide local (Metro Vancouver) dealer warranty service;
- Provide post-delivery services and parts availability at a local dealer area; and
- Preventative maintenance schedule.

3.2 Quality and Workmanship

The quality and workmanship of the completed delivered product must meet or exceed that of any sample, demo unit, or any other representation made by the Supplier prior to delivery.

Vehicles and equipment shall comply with all applicable legislated and regulatory standards. All welding shall meet American Welding Society or Canadian Welding Bureau current standards.

3.3 Environmental Considerations

Equipment offered is to be environmentally friendly, including but not limited to the manufacturing process, materials, oils, lubricants, paints and other fluid materials, wherever possible.

3.4 Pre-delivery Services

The equipment shall be delivered clean and shall be complete with all equipment required for the equipment to be operable. The delivered equipment will be inspected for compliance with the approved Purchase Order and current standards.

3.5 Pre-delivery Inspection

A road performance test and general operation inspection must be performed prior to delivery.

3.6 Delivery

Delivery is to be made with **minimum 48 hours' notice**, at a scheduled time that is mutually acceptable to the City, freight prepaid F.O.B to:

**City of Coquitlam
Works Yard West
500 Mariner Way
Coquitlam, BC, V3K 7B6**

An authorized representative of the Supplier shall supervise delivery to the City.

3.7 Regulatory Requirements

The vehicles must 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 and Work Safe BC regulations.

Must comply with all WorkSafe BC Regulations.

Must meet all B.C. Motor Vehicle Regulations and meets all requirements to be driven on highways, roads, etc.

Meet Canadian motor vehicle safety standards.

3.8 Documentation at Time of Delivery

The Supplier is to provide the following documentation upon delivery with each piece of equipment:

Quantity	Description
4 sets	KEYS - All keys (four full sets), a complete parts list, and service manuals are to be delivered with the vehicle
1	Manufacturer's Certificate of Origin
1	Warranty document and certifications
1 set	One complete Service Manual to cover, but not limited to, tires, engine, batteries, transmission, axles, electrical components to cover each piece of equipment proposed
1 set	One Parts Manual covering the entire piece of equipment proposed
1 set	One set of As-built Electrical Wiring Schematics to cover any and all wiring not installed by chassis manufacturer. This diagram to include part numbers and brand names of switches, lights, etc. of parts used
1 list	Complete PARTS LIST of all belts, hoses, and filters; including part numbers, manufacturer and use
1 list	All Fluid Capacities in litres.

3.9 Recall Notices

In the event of any recall notice, technical service bulletin, or other important notification affecting a unit purchased under this Contract, a notice shall be sent to the City. It shall be the responsibility of the Supplier to assure that all recall notices are sent directly to the City Fleet department.

3.10 Manufacturer-Authorized

Supplier must be authorized by the manufacturer to sell vehicles and parts where such authorization is granted by the manufacturer. The relationship with the manufacturer must be direct and not indirect through a third party.



City of Coquitlam

PROPOSAL SUBMISSION FORM

RFP No. 23-030

One (1) Street Sweeper

Proposals will be received on or before 2:00 pm local time on

Friday, February 10, 2023

(Closing Date and Time)

INSTRUCTIONS FOR PROPOSAL SUBMISSION

Proposal submissions are to be returned in Microsoft Word and any other supporting documents to be consolidated into one PDF file and uploaded through QFile, the City’s file transfer service accessed at website: qfile.coquitlam.ca/bid

1. In the “Subject Field” enter: RFP Number and Name

2. Add files in .pdf format and “Send”

(Ensure your web browser remains open until you receive 2 emails from QFile to confirm upload is complete.)

Proponents are responsible to allow ample time to complete the Proposal Submission process. If assistance is required phone 604-927-3060.

Legal Name of Proponent	
Contact Person and Title	
Business Address	
Telephone	
Email Address	

1.

DEPARTURES AND AWARD

a) **CONTRACT** - I/We have reviewed the City's [Standard Terms and Conditions - Purchase of Goods and Services](#) and would be prepared to enter into in an agreement that incorporates the City's Standard Terms and Conditions, amended by the following departures (list, if any):

Section	Requested Departure(s) / Alternative(s)

b) **SERVICES** - I/We have reviewed the Scope of Services as described in this RFP and are prepared to meet those requirements, amended by the following departures and additions (list, if any):

Requirements – Requested Departure(s) / Alternate(s) / Addition(s)

c) **AWARD** - For eligibility of award, the City requires the successful Proponent to complete and have the following in place before providing the Goods and Services. **Section 1c items are not required as part of this Proposal but may be required prior to entering into an agreement with the City.**

i. **Vendor Info** - Complete and return the City's [Vendor Profile and Electronic Funds Transfer Application \(PDF\)](#)

ii. **Business License** - A City of Coquitlam or Tri Cities Intermunicipal [Business License](#)

iii. **Contract** – Acceptance of the City's Terms and Conditions: [Standard Terms and Conditions - Purchase of Goods and Services](#)

As of the date of this Proposal, we advise that we have the ability to meet all of the above requirements except as follows (list, if any):

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2. **CORPORATE**

<p>a) DEMONSTRATION UNITS Availability, location and notification required to arrange for a demonstration and testing of the following equipment as proposed: **The City may choose to use the demo vehicle in the field for one day**</p>

<p>b) CAPABILITIES, CAPACITY AND RESOURCES - Proponents to provide information on the following (use the spaces provided and/or attach additional pages, if necessary):</p>
<p>i. Structure of the Proponent, background, how many years they have been in business and organizational history (e.g. mission, vision, corporate directions, years in business, etc.):</p>
<p>ii. Proponent is to provide a narrative as to their experience and capabilities in delivering goods and Services similar to those requested in this RFP:</p>
<p>iii. Proponent is to state how many customers they have using One (1) Street Sweeper :</p>

<p>c) REFERENCES – Proponent shall be competent and capable of performing the Services requested and successfully delivered service contracts of similar size, scope and complexity. The City reserves the right to contact any person(s), agency(ies) or firm(s) not listed as part of an independent review.</p>

Reference No. 1	
Description of Contract	
Size and Scope	
Work Performed	
Start Date	
End Date	
Contract Value	
Project completed on budget	
Project completed on schedule	
	Company:

Reference Information	Name:
	Phone Number:
	Email Address:

Reference No. 2	
Description of Contract	
Size and Scope	
Work Performed	
Start Date	
End Date	
Contract Value	
Project completed on budget	
Project completed on schedule	
Reference Information	Company:
	Name:
	Phone Number:
	Email Address:

Reference No. 3	
Description of Contract	
Size and Scope	
Work Performed	
Start Date	
End Date	
Contract Value	
Project completed on budget	
Project completed on schedule	
Reference Information	Company:
	Name:
	Phone Number:
	Email Address:

3.

TECHNICAL

a) LEAD TIME FOR DELIVERY

The lead time for delivery of the new unit is an important consideration in this purchase. The Proponent guarantees to deliver the vehicle(s) F.O.B. (freight pre-paid) to:

City of Coquitlam, Works Yard West, 500 Mariner Way, Coquitlam, BC.

Lead time in days for manufacture and delivery once the final specification is approved by the City:

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b) KEY FACILITY LOCATIONS

Manufacturing Plant, Business Name and Location:

--

I. Warranty and Repair Service Center

State location of nearest affiliate service facilities with factory authorized technicians located in Metro Vancouver area. Business Name and Location:

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II. State the procedure for handling warranty claims:

--

c) MRO Parts Distribution Center

I. Business Name and Location:

--

II. Regular Lead Time for Delivery of Stocked Parts:

--

III. Provide a list and details of stocked parts available at the local dealership for the equipment proposed (attach additional information if necessary):

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IV. Location for non-stocked parts:

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V. Regular Lead Time of Non- Stocked Parts:

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d) Quality Assurance	
I.	Provide information on the systems of Quality Control and build specification assurance.
II.	Preventative Maintenance – Provide preventative maintenance schedule. Attach if necessary

e) TRAINING AND MANUALS	
I.	Operators – state duration of training, number of attendees and number of on-site workshops at Coquitlam Works Yard:
II.	Fleet and Maintenance – state duration of training, number of attendees, number of workshops and Location
III.	Training Method – State type of training method used to teach.
IV.	Manuals (online/web based/DVD/paper manuals) included: <ul style="list-style-type: none"> • 1 parts manual • 1 repair manual for truck and all mounted equipment • 1 service manual • 2 Operator’s manuals • Wiring schematics including all installed systems and equipment State format available:
V.	Training Materials: Access to online/web based or DVD training, 1 for Operators and 1 for Mechanics Confirm and State format available:

f) WARRANTIES AND EXTENDED WARRANTIES	
Attach Warranty information including extended warranties. Any additional cost is to be stated:	
Manufacturer Warranty	State:

5. **FINANCIAL**

a) One (1) Street Sweeper_In accordance with APPENDIX A – PREFERRED SPECIFICATIONS			
One (1) Street Sweeper – State Manufacturer and Model:			
	Item	Quantity	Unit Price (exclude PST & GST)
a)	One (1) Street Sweeper	1	\$
	Levies (per unit):	1	\$
b)	Environmental Tax (per unit):	1	\$
Sub-Total			\$
PST			\$
GST			\$
TOTAL PRICE (per unit)			\$
TOTAL PRICE (x Units)			\$
The Price must include all required decals, paint and any features required to be compliant with all regulations and standards and be fully operational.			

b) WARRANTIES AND EXTENDED WARRANTIES	
Attach Warranty information including extended warranties. Any additional cost is to be stated:	
Extended Bumper to Bumper Warranty State term:	State Term:
	\$
Other available Warranty Options:	State Options:
	\$

c) VALUE ADD Provide information on what makes your firm innovative, what is your competitive advantage, and what other services your firm provides that would assist or be of benefit to the City

d) SUSTAINABLE BENEFITS AND SOCIAL RESPONSIBILITY a) Describe all initiatives, policies, programs and product choices that illustrate your firm’s efforts towards sustainable practices and environment responsibility in providing the services that would benefit the City
b) What policies does your organization have for hiring apprentices, indigenous peoples, recent immigrants, veterans, young people, women, and people with disabilities:
c) What policies does your organization have for the procurement of goods and services from local small and medium sized business or social enterprises:

Attention Purchasing Manager:

- 6. I/We, the undersigned duly authorized representative of the Proponent**, having received and carefully reviewed all of the Proposal documents, including the RFP and any issued addenda posted on the City’s website www.coquitlam.ca/Bid-Opportunities and having full knowledge of the Site, and having fully informed ourselves as to the intent, difficulties, facilities and local conditions connected to performing the Services; submit this Proposal in response to the RFP.
- 7. I/We** agree to the rules of participation outlined in the [Instructions to Proponents](#) and should our Proposal be selected, agree to the City’s [Standard Terms and Conditions - Purchase of Goods and Services](#) and will accept the City’s Contract as defined within this RFP document.

8. I/We acknowledge receipt of the following Addenda related to this Request for Proposals and have incorporated the information received in preparing this Proposal.

Addendum No.	Date Issued

This Proposal is submitted this ____ day of _____, 20 ____.

I/We have the authority to sign on behalf of the Proponent and have duly read all documents.

Name of Proponent	
Signature(s) of Authorized Signatory(ies)	1.
	2.
Print Name(s) and Position(s) of Authorized Signatory(ies)	1.
	2.

APPENDIX A – PREFERRED SPECIFICATIONS – One (1) Street Sweeper

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
1.	It is the intent of these specifications is to describe the preferred requirements for One (1) Street Sweeper . The unit must 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 and Work Safe BC regulations.	
A.	Make	
B.	Model	
C.	Year of Manufacture	
D.	Vehicle Weight	
E.	Must comply with all WorkSafe BC Regulations. Must meet all B.C. Motor Vehicle Regulations and meets all requirements to be driven on highways, roads, etc. Must meet 2020 mandatory emission requirements. To meet Canadian motor vehicle safety standards.	
2.0	Chassis	
A.	Cab-over design	
B.	GVWR - State	
C.	Wheel base - State	
D.	Cab to Axle - State	
E.	Yield strength of the Rail - State	
F.	Equipped with a rear panel to provide under ride protection. When dumping debris, material not to be discharged on top of the rear panel.	
G.	Front tow pins to be provided	
H.	Minimum one (1) fuel tank to be accessible without raising or shifting any components. A fuel gauge, in cab, to be supplied. Sight tube will not acceptable	
I.	Diesel emissions to be EPA 2017 and California Air Resources Board (CARB) compliant	
3.0	Transmission, Axles, Wheels & Brakes	
A.	An Allison 3500 RDS series (or approved equivalent) automatic transmission to be provided	
B.	Be equipped with taperleaf front suspension and shock absorbers.	
C.	The rear axle to be Minimum 21,000 lb.	
D.	Interchangeable front and rear tires and rims.	
E.	Tires to be tubeless radial tires "G" load rated. The rear axle to include dual tires for load capacity; singles will not be acceptable - State Size and Ply	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
F.	Brakes to be full air brakes with automatic slack adjusters and ABS.	
G.	Air system to include an air dryer with heater.	
H.	State option for air disc brake	
4.0	Chassis Engine	
A.	Truck engine - State	
B.	Truck engine single vertical exhaust system.	
C.	The cooling system to be protected to minimum -30 degrees F or -34 degrees C.	
D.	Engine to be equipped with minimum 1500 W immersion (coolant) type pre-heater.	
E.	Engine to be equipped with minimum 350 W grid (oil) heater.	
F.	Radiator fan to be viscous drive type.	
5.0	Cab	
A.	Forward line of sight from the chassis front bumper to the point on the ground visible to the operator - State	
B.	Steering to be full power with dual operator controls.	
C.	RH and LH steering columns to be have tilt adjustment.	
D.	RH and LH Seats to be high back air suspension, adjustable, cloth or vinyl and include 3 point seat belts.	
E.	Two (2) heated and remote control, outside west coast type mirrors with two lower 8" convex mirrors mounted.	
F.	Outside mirrors to be mounted forward of the front wheels.	
G.	Switches to be illuminated for identification at night.	
H.	Switches to be clearly identified by name and symbol.	
I.	To be fully air-conditioned including a fresh air heater/ventilator/defroster.	
J.	Intermittent wipers	
K.	Interior of cab to be insulated for low operating noise	
L.	All glass to be safety glass and where legal tinted	
M.	LH and RH sides to be have adjustable sun visor.	
N.	Door windows to be powered vertical slide type.	
O.	AM/FM/WB/Bluetooth radio with (2) speakers, AM/FM antenna to be included.	
P.	Dash mounted 12 volt power outlet.	
6.0	Instruments	
A.	Chassis right side operator instrument panel to be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, hour meter, fuel gauge, water temperature gauge, air pressure gauge, DEF	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
	gauge, and Performance Assistant (DPA) helps with DPF and regeneration and displays time, alarm clock, ambient temperature, turbo pressure, fuel economy, eco-performance, and service advisor	
B.	Chassis left side operator instrument panel to be include, full vision illuminated with tachometer, speedometer, odometer, fuel level, DEF level, air pressure primary and secondary gauges, voltage gauge, and water temperature gauge.	
C.	Chassis engine instruments to include warning light and chime for low coolant level and high coolant temperature to warn the operator.	
D.	Console to be have left/right primary driver switch.	
E.	Hydraulic functions to be controlled by rocker switches located in the cab control panel.	
F.	Truck instruments to include warning lights for battery and cab latch to make sure the cab is in locked in position.	
G.	All console switches including transmission controls and all gauges to be illuminated.	
H.	Front/remote mounted air restriction indicator with graduations.	
7.0	Electrical	
A.	Batteries to be self enclosed environment.	
B.	Chassis to have two (2) maintenance free batteries rated at not less than 1460 CCA total, 12 volt.	
C.	Chassis engine to have an alternator - State	
D.	Chassis lighting to include sealed multi-beam halogen head-lights, stop lights, tail lights, backup lights, license plate lights, clearance lights, signal lights, illuminated gauges and instrument panel, LED dome lamps, and directional lights with hazard switch.	
E.	State option for full LED lighting package	
F.	Battery disconnect switch to be mounted to the battery box.	
8.0	Sweeper Engine	
A.	Single engine system (Sweeper to be run from chassis engine)	
B.	Hydraulic operating system - State	
C.	Horsepower - State	
D.	Sweeper work mode speed - State	
9.0	Blower	
A.	Blower housing construction and bolt liners - State	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
B.	Liner replacement should not require blower to be removed from housing.	
C.	Blower housing to have an inspection door for access to blower without removing the blower housing or looking into the air exhaust opening.	
D.	Blower housing not to be an integral part of the hopper. Replacement of the blower housing must be possible without any cutting and/or welding of the housing and or hopper.	
E.	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.	
10.0	Pickup Head	
A.	The pickup head to be spring-supported, all steel fabricated pickup head with separated upper and lower chambers where pressurized air can blast from the upper chamber through an elongated blast orifice, to the lower vacuum chamber.	
B.	The pickup head dimensions - State	
C.	The pickup head pressure hose that connects the blower outlet with the pickup head - state length. Urethane transition pieces between the pressure hose and the pickup head are not acceptable.	
D.	The pressure side to be equipped with a pressure relief valve/vacuum enhancer/leaf bleeder, for leaf and light debris sweeping.	
E.	The front and rear debris curtains to be removable without removing the pickup head from the unit.	
F.	Pickup head - State	
G.	One side broom and pickup head - State	
H.	Two side brooms and pickup head - State	
I.	The pickup head to be equipped with side mounted adjustable steel runners with carbide inserts with a minimum width of 1 1/8 inches for long life.	
J.	The pickup head to be raised and lowered hydraulically by a switch on the control panel inside the cab.	
11.0	Side Brooms	
A.	The right and left side broom to have a free floating trailing arm with inward motion safety. The trailing arm to be of a parallelogram design for simple, non-binding action/motion and for constant bristle and wear pattern.	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
B.	The side brooms to be minimum 42-inch diameter, with hydraulically driven rotation.	
C.	Brooms to be pneumatically raised, lowered and suspended.	
D.	Adjustable down pressure to be pneumatically controlled by the operator from the cab.	
E.	The broom hydraulic motor drive to provide not less than 6045 in/lbs. of torque for digging.	
F.	The side broom assemblies to have greaseless pivot pins.	
G.	The side broom assemblies to be held in the storage position by a positive means to support broom during travel.	
H.	Each side broom to be controlled from in the cab by simple rocker switches.	
I.	Electrically operated tilting mechanism to allow operator to change inward/outward tip of the right Sidebroom. Angle to be able to change from the cab while sweeping.	
J.	The side broom control system to allow the broom to be retracted while sweeping, to provide scrubbing action in front of the pickup head. This feature to be controlled from the operator console	
12.0	Hopper	
A.	Volumetric capacity - State	
B.	Hopper and floor construction - State	
C.	Hopper floor angle to be a minimum of 10 degrees to assist in easy dump off of debris.	
D.	The hopper to be have an external hopper prop.	
E.	A removable, adjustable, abrasion resistant scoop style steel deflector to be located at the suction inlet.	
F.	The hopper rear door to be hinged at the top of the door and opened by means of a hydraulic cylinder. The hopper door to be open first prior to tilting the hopper. The hopper rear door to be open at a minimum angle of 90 degrees and be perpendicular to the hopper opening.	
G.	The rear hopper door to be have an external door prop.	
H.	The hopper rear door to include an automatic lock mechanism	
I.	The rear door seal to be heavy-duty reinforced D style rubber seal and water and freeze resistant	
J.	Two screens to be installed to allow air to move freely from the hopper into the centrifugal dust separator. The hopper screens to be hinged and easily lowered for	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
	cleaning and inspection without tools or pin's removal. State size and material	
K.	An inspection door to be built into the the hopper. This option to provide an additional step, mounted on the rear bumper, and an easy to reach handle, mounted on the of the hopper, that both provide easy access to the inspection door and view of the load in the hopper.	
L.	A hopper drain on the hopper door, to drain off excess water - State	
M.	A screen mounted inside the hopper door to keep larger debris from clogging the hose.	
13.0	Dust Separator	
A.	The separator to be designed so that it will not plug with regular debris.	
B.	To allow inspection and cleaning of the separator interior, the dust separator to be have minimum of two hinged inspection doors. Both doors to open automatically when tilting the hopper.	
14.0	Spray Water System	
A.	The water tank to be a removable, constructed of rust proof material - State capacity	
B.	The water tank to be frame mounted and not sharing any common wall with the hopper and not to be raise during body dumping for better weight distribution.	
C.	A fill hose with National Standard Thread (NST) coupling with strainer to be supplied - State length	
D.	Water level gauge to be provided on the control console within the cab.	
E.	All water lines to be color coded for easy identification.	
F.	Water filter to be easy to access and clean without tilting the hopper. A ball valve or plug to be provided at the filter inlet to allow cleaning of the filter without the loss of water from the water tank.	
G.	All water piping to be external to the operator cab. No water lines capable of leaking or bursting to be within the cab.	
H.	Minimum three (3) water spray nozzles to be located at each side broom for optimal dust control. A pivoting bracket to allow for optimum positioning of the side broom spray nozzles.	
I.	Minimum seven (7) easily removable water spray nozzles to be located inside the pickup head. Water spray nozzles	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
	that spray only on the outside of the pickup head are not acceptable.	
J.	Minimum three (3) removable water spray nozzles to be located at the lower portion of the suction hose for lubrication of the suction hose re dust control	
K.	Minimum two electric 12 volt, diaphragm type pumps to provide flow to the pickup head, the suction hose and the side brooms.	
L.	Minimum one water pump to be dedicated to supplying water to the pickup head and the suction hose for dust control.	
M.	One water pump is dedicated to the side brooms for dust control.	
N.	Each water pump must have two flow rates, selectable by the operator from within the cab and capable of running dry without damage.	
O.	Cab controlled front water spray bar to assist with wetting down debris under extremely dusty conditions. Minimum four removable brass nozzles mounted under the front bumper of the truck on copper pipe .	
P.	Quick coupling for the water fill hose. Instead of threaded on connection, the water fill hose to be able to quickly connect and disconnect to the sweeper's water fill connector.	
Q.	The water system to be capable of purging water by the use of pressurized air. The sweeper air system is to utilized to provide air pressure using a manual valve control.	
R.	State option for additional water tank mounted at rear of cab.	
15.0	Hydraulic System	
A.	The variable speed device to be capable of directly driving hydraulic pumps without the use of auxiliary PTO's or belt drive systems.	
B.	A variable - piston type (or other) - displacement pump to be used for the sweeper blower system allowing operation of the blower at desired speeds - State	
C.	Gear driven hydraulic pump to be used for the sweeper brooms, hopper dump, and pickup head raise/lower systems - State	
D.	Blower drive motor to be hydraulic bent axis compact type ,closed loop system, to achieve effective blower speed while providing ease-of-alignment with drive coupling - State	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
E.	The reservoir must be located for inspections without tilting the hopper. Reservoir size and sight gauge - State	
F.	All hydraulic circuits to have quick disconnect pressure check ports for ease of maintenance.	
G.	Hydraulic oil cooler, with hydraulically driven cooling fan, to provide cooling with fresh air intake and accessible without raising the hopper. The hydraulic system to be operate minimum of below 200 F or 93 Celsius.	
H.	To prevent contamination and damage to the sweeper hydraulic system, return line to have absolute filter - State	
I.	To prevent contamination, charge pump flow to have a filter - State	
J.	To prevent contamination of the reservoir during the dump cycle, the reservoir vent to be equipped with filter - State	
K.	The system to contain minimum two stainless steel suction strainers - State	
L.	To minimize the hazards of potential leakage, all high pressure fittings to be O-Ring Face Seal (ORFS) type. Other systems will not be acceptable.	
M.	An in-cab, control console mounted, low hydraulic oil volume and high hydraulic oil temperature alarm to be provided.	
16.0	Pneumatic System	
A.	There is to be a PR4 protector type pressure protector for the chassis air system.	
B.	A separate air tank for all sweeper air components to be provided.	
C.	All pneumatic cylinders to be interchangeable.	
D.	All pneumatic cylinders to have a separate rod seal and wiper to prevent contamination entering the cylinder - State PSI	
E.	Each cylinder to be controlled by a single, two position, solenoid valve mounted on a manifold with common input and exhaust.	
F.	Have a filter with a polycarbonate bowl to filter out contaminants to prevent contamination in the air system - State	
G.	Power windows	
17.0	Electrical System	
A.	Sweeper to have an electronic back-up alarm for additional warning and safety when chassis is in reverse.	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
B.	Sweeper to be have a rear facing back-up camera.	
C.	Sweeper lighting to include rear identification lights and rear clearance lights.	
D.	Sweeper warning lights to include hopper up, hopper door open and hopper full load.	
E.	Sweeper wiring harnesses to be color-coded and function stamped with appropriate circuit name every four inches, i.e. "Ignition", "Side Broom" on each wire.	
F.	All electrical circuits must be protected by automotive style blade fuses.	
G.	Minimum two (2) LED work lights for both left hand and right hand gutter brooms and two (2) LED work lights at the rear of the unit to be supplied. Each work light to be have an independent in-cab control switch.	
H.	Rear mounted traffic advisory arrow board with in cab controls	
18.0	Controls	
A.	All sweeper controls to be mounted on a stationary central console that allows for use from either right or left positions. To allow the operator to view all important auxiliary engine information from either operating position.	
B.	The variable speed device to be in-cab controlled via singular push-button switch located on control console.	
C.	Engaging either work mode or road mode NOT to require the parking brake to be engaged or the chassis to be placed into neutral.	
D.	Work mode to be selectable when vehicle speed is at or below - State	
E.	Road mode to be selectable while vehicle is moving. One button memory to allow the operator to resume all previous sweep settings.	
F.	Controls to include sweep, spray water and lighting functions.	
19.0	Instruments	
A.	The controls for sweeping, spray water, and lighting functions to be rocker switches or equivalent - State	
B.	Controls for mode select, work throttle, side broom down pressure to be located on the control console.	
C.	Controls for sweep system to include sweep/resume feature; allowing the automatic raise when chassis	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
	transmission gear selector is put into reverse of side brooms and pickup head	
D.	Control for sweeper to include dump mode; allowing unloading of debris without the blower running.	
E.	Sweeper instruments to include blower tachometer, hour meter, fuel, and voltage etc. for information on the sweeper system, visible from both operator positions.	
F.	Variable speed device instruments to include an oil level sight gauge.	
G.	Sweeper instruments to include diagnostic information for the sweeper engine and sweeper functional information to include water level, sweeping mode and transport mode.	
H.	Sweeper instruments to include a "raised" hopper indicator, an open hopper door indicator and a full hopper indicator to notify the operator.	
I.	Controls to include an in-cab switch for vacuum enhancer, with percent open/close display for operator awareness for adjustment of pickup head vacuum level for continuous pickup of leaves and bulky debris.	
20.0	Paint	
A.	All visible exterior metallic surfaces to be coated prior to assembly with polyester powder coat. The paint to be a minimum of 2 mils thick.	
B.	Color to be the manufacture's standard color of "White".	
C.	Vehicle to be have an accent color on the components and lower portions of the unit - State	
D.	Chassis color to be the manufacture's standard color of "White".	
21.0	Warranty	
A.	Manufacturer's warranty to be not less than one (1) year on entire sweeper, including all parts and labor.	
B.	Manufacturer's warranty to be not less than three (3) years on chassis engine, including all parts and labor.	
C.	Manufacturer's warranty to be not less than three (3) years on variable speed device (VSD), including all parts and labor.	
D.	Manufacturer's warranty to be not less than lifetime protection against rust-through of the water tank.	
E.	Extended warranty options - State	

ITEM	PREFERRED SPECIFICATIONS	MEETS PREFERRED SPECIFICATION YES/NO
22.0	Service and Training	
A.	Vendors to be have a full parts and service facility within a reasonable distance from the City Works Yard. State location and distance.	
B.	A qualified technician to provide complete training to personnel at City. Training to include safety, operation, maintenance and service.	
23.0	Delivery	
A.	Sweeper to be delivered F.O.B. in new operating condition.	
B.	Acceptance to be subject to the inspection and approval of the City.	
C.	Lead-time (from receipt of City purchase order) - State	
24.0	Quality	
A.	Sweeper to be manufactured by a company with a registered quality standard no less than ISO 9001.	
25.0	Exceptions and Deviations	
A.	Proponent to fully describe every variance, exception and/or deviation. Additional sheets may be used if required.	