

INVITATION FOR BID

THIS FORM MUST BE COMPLETED AND
SIGNED FOR YOUR BID TO BE CONSIDERED VALID.

Address to: Procurement Manager
City of Kingsport
225 W Center Street
Kingsport, TN 37660
phone (423) 229-9419 or fax (423) 224-2433

Date Issued: 03/12/2018
F.O.B. Kingsport

Total Number of Pages: 19

This sealed bid in the original copy, subject to the terms and conditions on the attachment, will be received by the Procurement Manager until 4:00 P.M., Eastern Time on March 28, 2018 at which time will be publicly opened in the Council Room, City Hall, 225 W. Center Street, Kingsport, Tennessee. IN THE LOWER LEFT CORNER OF YOUR ENVELOPE ADDRESSED TO ABOVE, MARK YOUR ENVELOPE "CAB/CHASSIS WITH STREET SWEEPER" AND DATE OF THE BID OPENING.

READ TERMS AND CONDITIONS BEFORE COMPLETING THIS FORM

Item	Quantity	U/I	Description	Unit Price	Total Price
01	1	EA	<p>REGENERATIVE AIR STREET SWEEPER, DIESEL POWERED, TRUCK CHASSIS MOUNTED AS PER ATTACHED SPECIFICATIONS</p> <p>BRAND/MODEL</p> <p>_____</p> <p>Delivery Terms:</p> <ol style="list-style-type: none">1. Delivery no later than _____ business days after acceptance of order which shall be defined as purchase order date.2. The Fleet Maintenance Department will complete vehicle inspection to insure compliance with specifications within ___10___ business days after delivery.3. If deficiencies are identified upon inspection, the time frame allowed for vendor to correct deficiencies and return vehicle/equipment to the Fleet Maintenance Department will be ___15___ business days after notified by the Fleet Manager.		

			<p>Liquidated Damages:</p> <p>As actual damages for any delays in delivery of the vehicles/equipment which the bidder is required to perform as per this bid document are difficult to determine, the Bidder shall be liable for and shall pay to the Owner the sum of Fifty Dollars (\$50.00) as fixed, agreed and liquidated damages for each business day of delay per purchase order and not per unit from the number of days stipulated for delivery and for deficiency correction.</p>		
<p>In compliance with this Invitation for Bid and subject to all conditions thereof, the undersigned agrees, if this bid is accepted within 60 days from the date of the opening, to furnish all of the material/service upon which prices are quoted, delivered at the designated point(s) within the time specified.</p> <p>(A) Terms: NET</p> <p>(B) Specification/Letter of explanation enclosed: YES () NO ()</p>					

Handwritten Signature of Authorized Representative

Name of Firm

Date

THIS FORM MUST BE SIGNED TO BE CONSIDERED COMPLETE

COMPLIANCE AFFIDAVIT(S) (TOTAL OF 2 PAGES)

THIS COMPLIANCE AFFIDAVIT MUST BE SIGNED, NOTARIZED AND INCLUDED WITH ALL BIDS – FAILURE TO INCLUDE THIS FORM WITH THE BID SUBMITTED SHALL DISQUALIFY THE BID FROM BEING CONSIDERED.

VENDOR: _____

CONFLICT OF INTEREST:

1. No Board Member or officer of the City of Kingsport or other person whose duty it is to vote for, let out, overlook or in any manner superintend any of the work for the City of Kingsport has a direct interest in the award of the vendor providing goods or services.
2. No employee, officer or agent of the grantee or sub-grantee will participate in selection, or in the award or administration of an award supported by Federal funds if a conflict of interest, real or apparent, would be involved. Such a conflict would arise when the employee, officer or agent, any member of their immediate family, his or her partner, or an organization, which employs, or is about to employ, any of the above, has a financial or other interest in the firm selected for award.
3. The grantee's or sub-grantees officers, employees or agents will neither solicit nor accept gratuities, favors or anything of monetary value from vendors, potential vendors, or parties to sub-agreements.
4. By submission of this form, the vendor is certifying that no conflicts of interest exist.

DRUG FREE WORKPLACE REQUIREMENTS:

5. Private employers with five or more employees desiring to contract for construction services attest that they have a drug free workplace program in effect in accordance with TCA 50-9-112.

ELIGIBILITY:

6. The vendor is eligible for employment on public contracts because no convictions or guilty pleas or pleas of nolo contender to violations of the Sherman Anti-Trust Act, mail fraud or state criminal violations with an award from the State of Tennessee or any political subdivision thereof have occurred.

GENERAL:

7. Vendor fully understands the preparation and contents of the attached offer and of all pertinent circumstances respecting such offer.
8. Such offer is genuine and is not a collusive or sham offer.

IRAN DIVESTMENT ACT:

9. Concerning the Iran Divestment Act (TCA 12-12-101 et seq.), by submission of this bid/quote/proposal, each vendor and each person signing on behalf of any vendor certifies, and

in the case of a joint bid/quote/proposal, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each vendor is not on the list created pursuant to § 12-12-106.

NON-COLLUSION:

10. Neither the said vendor nor any of its officers, partners, owners, agents, representatives, employees or parties interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other responder, firm, or person to submit a collusive or sham offer in connection with the award or agreement for which the attached offer has been submitted or to refrain from making an offer in connection with such award or agreement, or collusion or communication or conference with any other firm, or, to fix any overhead, profit, or cost element of the offer price or the offer price of any other firm, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City of Kingsport or any person interested in the proposed award or agreement.
11. The price or prices quoted in the attached offer are fair, proper and not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the firm or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

BACKGROUND CHECK REQUIREMENT FOR SCHOOL SYSTEM SUPPLIERS:

12. In submitting this bid/quote/proposal, you are certifying that you are aware of the requirements imposed by TCA § 49-5-413 (d) to conduct criminal background checks through the Tennessee Bureau of Investigation and the Federal Bureau of Investigation on yourself and any of your employees who may come in direct contact with students or who may come on or about school property anytime students are present. You are further certifying that at no time will you ever permit any individual who has committed a sexual offense or who is a registered sex offender to come in direct contact with children or to come on or about school property while students are present.

The undersigned hereby acknowledges and verifies that the response submitted to this solicitation is in full compliance with the applicable laws/listed requirements.

SIGNED

BY: _____

PRINTED NAME: _____

TITLE: _____

SUBSCRIBED AND SWORN TO BEFORE ME THIS DATE: _____

BY (NOTARY PUBLIC): _____

MY COMMISSION EXPIRES ON: _____

TERMS AND CONDITIONS

1. Bids must be submitted on this form only and bear the handwritten signature of an authorized representative of the firm to be considered valid. Each bid will be placed in a separate envelope. Be sure the envelope is completely and properly identified and sealed. Telephone bids or fax bids will not be accepted. Unless otherwise stated by the City, no bidder may withdraw his bid within a period of sixty (60) days after the date set for the opening of bids.
2. If prices are quoted FOB Kingsport, TN., delivery to City of Kingsport locations shall be without additional charge.
3. Failure to examine any drawings, specifications, and instructions will be a bidder's risk. If bidder is in doubt as to the true meaning of any part of the drawings, specifications and instructions or other documents, he should submit a written request for an interpretation to the Procurement Manager. An interpretation of the documents will be made only by addendum issued by the Procurement Manager to each firm to whom an invitation was forwarded. The City will not be responsible for explanation or interpretations of bid documents except as issued in accordance herewith.
4. Where a brand or trade name appears in the specifications, it is understood that the brand or trade name referred to, or its approved equivalent, shall be furnished. If no mention is made of any exceptions, it is assumed that he is bidding on the article mentioned and not an approved equivalent.
5. The bidder is requested to attach brochure-type information on the supplies furnished. All guaranteed and warranties should be clearly stated.
6. Taxes. The City is exempted from Federal excise taxes and state and local sales taxes and bidders must quote prices which do not include such taxes. An exemption certificate will be furnished upon request.
7. Bids and modifications or corrections thereof received after the closing time specified will not be considered. The City is not responsible for delays in delivery by mail, courier, etc.
8. Any exceptions to these terms and conditions or deviations from written specifications will be shown in writing and attached to the bid form.
9. Any alteration, erasure, addition to or omission of requested information, change of the specifications, or bidding schedule, is made at the risk of the bidder and may result in the rejection of the bid, unless such changes are authorized by the specifications.
10. In the event cash discounts are offered by the bidder, the discount date shall begin with the date of the invoice or the date of receipt of all material covered by the order/contract, whichever is the later date.

11. Charges for boxing or cartage will not be allowed unless previously agreed upon.
12. Default in promised delivery and failure to comply with specifications authorizes the City to purchase supplies elsewhere and charge the difference to defaulting Vendor.
13. Bidder agrees to defend and save City of Kingsport from and against all demands, claims, suits, costs, expenses, damages and judgments based upon infringement of any patents relating to goods specified in this order or the ordinary use or operation of such goods by City or use or operation of such goods in accordance with bidders direction.
14. In case of error or discrepancy in the mathematics of the bid price, the unit prices shall prevail.
15. By submission of a signed bid, the bidder certifies total compliance with Title VI and Title VII of the Civil Rights Act of 1964, as amended, and all regulations promulgated thereunder.
16. Contracts and purchases will be made or entered into with the lowest, responsible, compliant bidder meeting specifications for the particular grade or class of material, work or service desired in the best interest and advantage to the City of Kingsport. Responsible bidder is defined as a bidder whose reputation, past performance, and business and financial capabilities are such that he would be judged by the appropriate City authority to be capable of satisfying the City's needs for a specific contract or purchase order.
17. The City reserves the right to determine the low bidder either on the basis of the individual items or on the basis of all items included in its INVITATION TO BID, unless otherwise expressly provided in the INVITATION TO BID. The City reserves the right to accept any item or group of items of any kind and to modify or cancel in whole or in part, its INVITATION TO BID.
18. All contracts or purchase orders issued for this award will be governed by the laws of the State of Tennessee.
19. The City, in accordance with its governing directives, reserves the right to reject any and all bids, to waive any informality or irregularities in bids and unless otherwise specified by the bidder, to accept any item.
20. This Bid includes an option to allow the City of Kingsport the right to purchase additional vehicles/equipment. The City's use of this option will be dependent upon the price offered by the vendor and the availability of funding. The City may exercise this option clause for a period of twelve (12) months after the award of the Bid. The City is aware that costs may increase for vehicle/equipment manufacture and delivery, and therefore a price adjustment for unit cost may be negotiated between the two parties. Documentation of cost increase is to be provided to the City by the Awarded Bidder as requested.

GENERAL PROVISIONS

1. The unit and associated equipment shall be furnished complete and in readiness for use.
2. Special Awarding Criteria. While the purpose of the bid document is to indicate certain minimum requirements, its use is not intended to relieve the City of all responsibility in making a selection which is the most suitable for the City's service.

Although proposals may be received based on the minimum requirements indicated, it is not intended that this alone shall limit the award but other factors will be considered, including the experience of the City and others.
3. Unless the capabilities of the equipment, which the Vendor bids, is known to the City, bidder agrees to provide a model within reasonable distance of the City of Kingsport, for evaluation purposes at no expense to the City of Kingsport.
4. Trade-in. Trade-In allowance offers are to be considered "AS IS, WHERE IS". No notation nor stipulative qualifying to this "AS IS, WHERE IS" will be allowed or accepted regarding the Trade-in units being offered.
5. OPTIONAL EQUIPMENT. Optional Equipment selection will be at the discretion of the City.
6. Specifications. SEE: Vehicle Specifications – twelve (12) pages.
7. Bidder is requested to fill out the Bid Form and attach a completed copy of the specifications (Pages 1 – 12) to the Bid Form.
8. Any additions, deletions, variations from attached specifications must be noted. Any items appearing in manufacturer's regular published specifications furnished by bidder are assumed to be included in the "Bidder's Proposal".
9. At time of delivery to the City of Kingsport, vehicle must meet or exceed all federal, state, and local health, safety, lighting and noise standards.
10. At time of delivery to the City of Kingsport, vehicle must meet or exceed all existing DOT regulations and US EPA emission standards that are applicable to this type vehicle.



REGENERATIVE AIR STREET SWEEPER DIESEL POWERED TRUCK CHASSIS MOUNTED

The unit(s) to be furnished under this proposal shall be a truck mounted, diesel powered, regenerative air, street sweeper of the manufacturer's latest design and model and suitable for use in a municipal street maintenance operation. Unit(s) shall be delivered complete and ready for use.

Compliance with the specifications shall be so noted in the YES or NO columns designated. Any addition, deletion, or variation from the following specifications shall be so stated in the space provided. These specifications shall be construed as minimum; however, all exceptions will be weighed carefully against the needs, experiences, and resources of the *City of Kingsport*. These specifications also require the bidder furnish descriptive literature, complete specifications, and all other technical data on the equipment as proposed by the perspective bidder. Failure to comply with these conditions will deem the bidder as non-responsive.

SPECIFICATIONS	Bidder Complies	YES	NO
1.0/ - GENERAL SPECIFICATIONS:			
1. Latest, current production model, truck mounted regenerative air street sweeper mounted on a conventional chassis; new and unused with all standard equipment as offered by the manufacturer.			
2. All parts, accessories, equipment, and safety features considered as standard by the equipment manufacturer; whether herein specified or not, shall be considered as required.			
3. This complete unit(s) shall be built and delivered complete and ready for use in full compliance with federal, state, and local requirements and regulations.			
4. This unit and all other related equipment incorporated into this unit shall be designed, built, manufactured, and constructed in accordance with all applicable safety codes, design, and manufacturing standards as outlined by SAE, ANSI, AWSI, FMVSS and related organizations or standards agencies.			
5. This unit(s) and attachments shall embody the highest quality materials and workmanship available.			
EXCEPTIONS:			
2.0 - G.V.W.R.: 31,000 Pounds, minimum.			
EXCEPTIONS:			
3.0 - WHEELBASE: 167", minimum, with a 102" CA, minimum, and a 63 inch frame overhang.			
EXCEPTIONS:			
3.0/ - FRONT AXLE:			
1. Front axle shall be rated at 10,000 pounds, minimum.			
2. Front brake dust shields shall be provided.			
3. Lubrication for the front axle bearings shall be oil bath type with 75W-90 synthetic lube.			
EXCEPTIONS:			
4.0/ - STEERING:			
1. Steering shall be provided on both operating positions with controls and operation/function monitoring systems provided for each operating position in the cab.			
2. Adjustable tilt steering columns shall be provided at both operating positions.			
3. Self cancelling turn signal switch with headlight dimmer, windshield washer/ wiper and hazard lighting shall be provided in each operators column.			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
4.0/ - REAR AXLE: 1. A single speed (ratio 6:14 minimum) rear axle rated at 21,000 pounds (minimum) shall be provided. 2. Unit shall be capable of having a top highway speed of approximately (75) MPH. 3. Differential shall be provided with 75W-90 synthetic lubricant.			
EXCEPTIONS:			
5.0/ - BRAKES: 1. Full air, ABS (four sensor) cam type front and rear with automatic slack adjusters (15" x 4", front, minimum; 16 1/2" x 7", rear, minimum). 2. Parking brakes shall be spring set with in cab controls. 3. Audible and visual low air pressure indicators shall be provided at each operating position in the cab. 4. A heavy duty, heated, desiccant serviceable, automatic purge type air dryer (similar in design to the Bendix AD-9) shall be incorporated into the air brake system. 5. Discharge valve and purge valve shall be readily replaceable from the exterior of the unit. 6. The air compressor shall be rated at 18.7 CFM, minimum, and shall have a dry type air cleaner on the intake. 7. Front and rear brake dust shields shall be provided. 8. All air reservoir tanks shall have cable type tank drain valves easily accessible from the outside of the frame rails by the operator for daily draining.			
EXCEPTIONS:			
6.0/ - FRAME AND BUMPERS: 1. A heavy duty frame with a minimum RBM of 1,015,000 lb/in. shall be provided. 2. Frame shall be heavy duty high tensile steel and shall be adequate to accommodate body and equipment with an acceptable reserve. 3. Front frame mounted tow hooks shall be provided. 4. Manufacturer's standard painted front and rear bumpers shall be provided. 5. A weight load indicator shall be installed on frame.			
EXCEPTIONS			
7.0/ - SUSPENSION: 1. Front suspension shall be rated at 10,000 pounds minimum, with shock absorbers. 2. Rear suspension shall be multi-leaf spring design and rated at 23,000 pounds, minimum.			
EXCEPTIONS:			
8.0/ -WHEELS AND TIRES: 1. Front: Heavy duty, disc type wheels with 11R x 22.5-G (14 ply rating) tubeless, nondirectional highway tread, radial tires shall be provided. 2. Rear: Heavy duty, disc type wheels with 11R x 22.5-G (14 ply rating) tubeless, directional type tread, radial tires shall be provided. 3. Mounted spare tire to match brand and size shall be provided for steer axle tires and delivered loose with the unit.			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
9.0/ - CHASSIS ENGINE: 1. A water cooled, SCR equipped, diesel engine developing a minimum of 200 BHP @ 2,300 RPM and 520 lb/ft torque @ 1,600RPM shall be provided. 2. Non Diesel Exhaust Fluid utilizing engine designs shall not be acceptable. 3. A heavy duty dry type air cleaner with restriction indicator shall be provided. 4. Full flow oil filter system with spin on filter shall be provided. 5. Engine hour meter and tachometer shall be provided. 6. Independent accelerator pedals shall be installed in cab to facilitate operation from either operators position.			
9.1/ - COOLING SYSTEM : 1. Heavy duty cooling package , 950 square inch radiator minimum, with Horton type cooling fan shall be provided. 2. Cooling system shall be protected to a minimum of -30° Fahrenheit with an ethylene glycol based antifreeze. 3. All coolant hoses shall be Gates "Blue Stripe" or equivalent. 4. All engine cooling system hose clamps shall be of the constant torque type regardless of hose , position, or manufacturer. (Note: This specification is for both sweeper and chassis engines). 5. A thermostatically controlled engine heater (750 watt minimum) shall be provided. <i>Press fitted type engine heaters not acceptable.</i> 6. Engine heater shall be removable with common tools. 7. A weather proof heater receptacle connection for the engine heater shall be located under the drivers door. 8. Manufacturer's standard fuel/water separator shall be provided.			
9.2/ - EXHAUST : 1. Manufacturers standard left hand outboard frame mounted vertical after treatment system with top-stack shall be provided. 2. A manual provision for regeneration request of exhaust shall be provided. 3. Standard bright upper exhaust stacks shall be provided. 4. 6 gallon minimum DEF tank shall be provided.			
EXCEPTIONS:			
10.0/ - FUEL TANK: 1. 30 gallon (minimum) fuel tank shall be provided. 2. Fuel gauge for this tank shall be provided in the cab. 3. This tank shall be designed in such a way as to prevent the entry of water into the tank upon fill-up. 4. One additional tank shall be provided for the auxiliary engine (sweeper power). 5. Auxiliary engine fuel tank shall be equipped with a sight gauge and shall have a capacity to provide for 12 hours (minimum) of operation. 6. Fuel/water separation and filtration system shall be provided for the auxiliary engine and fuel tank.			
EXCEPTIONS:			
11.0/ - TRANSMISSION: 1. A four or five speed automatic transmission similar in design and performance characteristics to the Allison "2500 RDS",or equivalent, shall be provided. 2. A transmission oil cooler shall be provided. 3. Sweeping gear (brooms and nozzles) shall lift automatically when reverse gear is selected. 4. A solid state, reverse activated backup alarm shall be provided.			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
<p>12.0/ - ELECTRICAL - CHASSIS AND SWEEPER:</p> <ol style="list-style-type: none"> 160 AMP (minimum) alternator shall be provided. A 12 volt dual battery system shall be provided. Each battery shall be 950 CCA minimum for total of 1,900 CCA. Battery box shall be supplied with a cover. A full 'cross-over' system to change steering control, throttle and all gauges, from left to right hand side and vice versa shall be supplied. All cross-over functions shall be controlled by a single switch on the shifter console. The cross over circuit shall be inter-locked to the parking brake and shall only be capable of being activated with the parking brake applied. It shall be the responsibility of the awarded vendor to insure the correct chassis/ body interface, connectors and wiring are provided for the successful operation of the sweeper unit. All electrical circuits shall be protected by manual reset circuit breakers or better. Battery terminals shall be protected with a corrosion resistant coating specifically made for battery corrosion. All wiring shall be color coded and numbered for ease of maintenance. All circuits shall be circuit breaker or fuse protected. Convenient access shall be provided for all electrical circuits, controls, and wiring. All wiring shall conform to Society of Automotive Engineers (SAE) requirements and installation procedures. NOTE: "Scotchlocks" or other piercing type wire connectors on any connection (cab/chassis, body, or attachments) shall not be accepted. Twist lock and/ or twist wire nut type connectors on any connection (cab/chassis, body, or attachments) shall not be accepted. All external connectors shall be weather proof and corrosion resistant in design, manufacture and use. All wiring shall be enclosed in a non-metallic fire proof loom and secured in place PERIOD. Any circuit (+/-) wiring exposed in lengths longer than three (3") inches shall be loomed . Any wiring shall be protected from sharp edges. Adhesive backed, cable tie type, plastic or nylon, retaining pads will not be accepted as a wiring retaining method. Exposed, un-loomed, or un-retained wiring on any location of the upper and rear cab exterior or body sides and roof will not be accepted. Any penetration of wiring through metal points or other materials shall have protective rubber grommets installed in such opening. All grounds needed or provided shall utilize a grounding cable or strap. All internal wiring shall conform to an IP65 standard, to insure protection against dust and sprayed water intrusion. All external wiring shall conform to an IP67 standard, to insure protection against migration of dust and immersion into water. 			
EXCEPTIONS:			
<p>13.0/ - CAB: This unit shall be of a "conventional" style and shall include the following:</p> <ol style="list-style-type: none"> Interior of cab shall be color keyed to gray. Seats - Two fully adjustable air suspension equipped high back bucket type seats with mechanical lumbar support approved safety belts for each position. These seats shall be fully padded with heavy duty cloth upholstery over foam rubber seat cushions. Air Conditioning - Cab shall be fully air conditioned. Heater - Fresh air, hot water heater with full width windshield defrosters and multi-speed fan shall be provided. Wipers/Washers - Dual, two speed electric windshield wipers with washers shall be provided. Sun Visors - Left and right hand side sun visors shall be provided. Arm Rests - Left and right hand side arm rests shall be supplied. Grab Handles - Grab handles to provide three point entry on both sides of the cab shall be supplied. Left and Right Hand dual heated, with remote control, west coast style mirrors shall be provided. Additional 8", minimum, convex mirrors for sweeping equipment viewing shall be provided mounted on and below the west coast mirror brackets. Left and right fender mounted 8" convex mirrors on tripod brackets shall be provided. Door locks and ignition shall be keyed the same with a minimum of 4 key provided. Radio - AM-FM CD radio shall be provided. Dual Instrumentation Positions- Full gauge type instrumentation shall be provided and both left and right side operating positions. Manufacturer's standard tinted windows shall be provided. Floor mats to overlay floor covering shall be provided. Mud flaps shall be provided front, rear, and mounted front of rear wheels and include supports to keep flaps from contacting tires. 			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
14.0/ - COLOR: 1. Exterior - Exterior of cab and sweeper shall be manufacturer's standard white color. 2. Frame and chassis shall be polyurethane black. 3. Interior - Interior shall be color keyed on gray or blue. 4. Wheel Color - Shall be dove gray or white in color.			
EXCEPTIONS:			
15.0/ - LIGHTS - CHASSIS AND BODY: 1. All lamps shall be LED in design and in full compliance with all Federal and State motor vehicle safety standards and shall include four-way hazard flashers, backup lights and work lights. 2. Reflectors shall be supplied at all points as required by FMVSS. 3. A set of two, alternate flashing, 4" inch diameter (approximate) amber high intensity lights shall be provided and mounted on the upper rear tailgate area of the sweeper body approximately 4.5' apart. 4. Two halogen lamp amber rotating beacon lights (72 FPM) shall be provided. (One beacon shall be cab mounted and one beacon shall be mounted to the rear of the sweeper body and each shall include a brush guard or cage to prevent damage from low hanging limbs). 5. Weatherproof LED work lights shall be provided for each left and right gutter/ nozzle assemblies and console control panel switched to allow for night sweeping operations.			
EXCEPTIONS:			
16.0/ - AUXILIARY ENGINE: 1. The auxiliary engine providing power to the sweeper unit shall be a 4 cylinder, water cooled, naturally aspirated, industrial diesel engine. 2. Engine shall have a minimum displacement of 275 cubic inches and shall be capable of developing at least 99 BHP@ 2,200 RPM and 339 ft. lbs. torque @1,600 RPM. 3. A heavy duty dry, dual element air filter with restriction indicator shall be provided. 4. Full flow oil filter shall be provided. 5. Fuel system shall include filters, fuel/water separator, and manual priming provision. 6. Engine shall be provided with a complete stainless steel muffler and exhaust system to include the weathercap. 7. Entire engine shall be easily accessible for routine maintenance and shall be easily removable from the entire sweeper body and frame. 8. Antifreeze protection shall be provided to -30° degrees Fahrenheit. 9. All engine cooling system hose clamps shall be of the constant torque type regardless of hose , position, or manufacturer. (Note: This specification is for both sweeper and chassis engines). 10. Sweeper unit shall be capable of operating within a range of -34° degrees and +114° degrees Fahrenheit. 11. Fuel consumption information of the auxiliary engine shall be provided by the bidder. This information shall be based on normal/recommended auxiliary engine operating speeds. 12. Engine oil dipstick shall be easily and readily accessible. 13. An access ladder with sure grip treads shall be installed for the purpose of gaining safe access to engine compartment.			
EXCEPTIONS:			
17.0/ - SWEEPER ENGINE INSTRUMENTS AND CONTROLS: (In Cab Mounted) - The cab unit shall include the following auxiliary engine operating components: 1. Electric tachometer 2. Separate alternator (12 volt, 55 Amp, minimum) 3. Hour meter 4. Water temperature gauge 5. Oil pressure gauge 6. High water temperature/low oil pressure shut down system 7. Easily accessible fuses/circuit breakers 8. Flame retardant conduit for all electrical wiring 9. Easily accessible sweeper control from either operating position. 10. Warning lights shall be furnished for low oil pressure, high water temperature, low voltage, body weight limit, low hydraulic oil and low sweeper water tank level. 11. An anti-crank device shall be provided to prevent re-engagement of starter while engine is running.			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
18.0/ - AUXILIARY ENGINE THROTTLE: 1. An air operated solenoid type throttle shall be provided. 2. Throttle shall provide multi-position operational control of the auxiliary engine RPM.			
EXCEPTIONS:			
19.0/ - SWEEPER BODY: 1. Body shall be fabricated of reinforced 10 gauge non magnetic stainless steel (minimum) with a stainless steel floor and equipped with manufacture's optional body abrasion package covering all applicable wear components. 2. Body seams must be of continuously weldment design. 3. Interior of the body shall yield a minimum of 7.2 cubic yards of useable volume. 4. A weight load indicator shall be located in the cab sweeper control panel. 5. The sweeper shall incorporate an abrasion resistant dust separator within the hopper body that shall be of a high capacity, multi-pass, cylindrical, centrifugal, single chamber design. 6. A separate 1½" hydrant hose connector shall be provided to flush the separator, sweeping hood, pressure and suction hoses. 7. A hydraulically operated, fully sealed, full width, top hinged rear door shall be provided. 8. An adjustable rear door latch shall be provided if available from the manufacturer. 9. The door cylinder shall incorporate a counterbalance valve to prevent accidental closing in the event of a hydraulic hose or cylinder failure. (Sweeper manufacturer shall provide proof and location of valve) 10. The sweeper body unit discharge may be of either "lift to dump" or "eject to dump" configuration. 11. If a dump discharge is provided, the sweeper hopper body prop shall be full width as frame and automatically engage when the hopper is raised and be disengaged without reaching under the raised hopper. 12. The dump discharge body raise and lower functions shall be provided by two stage hydraulic cylinder(s) with power return and shall be located on the side of the body away from the tailgate area. 13. If a dump body is provided the tip angle shall be no less than 55° degrees. 14. If ejection dump is provided, dumping shall be accomplished by means of hydraulically actuated cylinders attached to a rear door which shall have a minimum opening of 84" x 44" with a raker bar moving inside hopper as door is opened and closed to dump debris behind the rear wheels. 15. "Eject to dump" hydraulic cylinders shall be controlled with the use of an electric toggle switch located on the side of the hopper and a switch inside the cab. 16. The sweeper shall incorporate an interior cab mounted warning audio beeper that shall alarm anytime the debris hopper or rear door is being raised or lowered. 17. A hopper deluge system shall be supplied with a 1½" hydrant hose connector on the outside of the rear door and a minimum of four (4) nozzles inside the hopper. 18. Abrasion resistance body intake tube shall be constructed of AR steel. 19. Two (2) inspection doors shall be provided at each side of the sweeper along with safe grip handles and steps to allow quick inspection of hopper, cleaning of the rear screens, and placement of large objects in the hopper. 20. The rear door shall have two (2) 3" drain hoses at staggered heights to enable water to be drained off. 21. Storage brackets shall be provided to stow the hoses when not in use.			
EXCEPTIONS:			
20.0/ - VACUUM TURBINE: (Impeller) 1. The vacuum turbine blower shall be driven utilizing either a fluid coupling or direct drive design. 2. The blower housing must not be an integral part of the debris hopper. 3. Blower housing shall have port for inspection and shall be constructed of AR steel. 4. The blower housing shall incorporate a vacuum enhancing design for discharging a portion of the 'blast' air for improved sweeping of light materials such as leaves and paper. 5. The connection of blower to drive system and engine shall be shall be provided with an adjustment capability if required for successful operation. 6. The minimum blower fan speed shall be no less than 3,000 RPM to effectively convey material into the debris hopper and provide a minimum of 20,000 CFM. 7. A third party letter of certification shall be provided on unit delivery proving the minimum turbine performance specification is being met.			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
21.0/ - SWEEPER INTAKE SYSTEM: 1. The intake system shall be a minimum of 14" in diameter. 2. The intake system shall be designed to permit easy cleaning and removal of blockages.			
EXCEPTIONS:			
22.0/ - GUTTER BROOMS: 1. A minimum of two gutter brooms, one left and one right, shall be and be a minimum of 43" diameter and shall be capable of a total 142" sweeping width using both gutter brooms.. 2. The gutter brooms shall be of steel tine construction. 3. The brooms shall be tilted in a forward facing digger style and provide an aggressive digging and scrubbing action.. 4. The gutter brooms shall be direct hydraulic drive type protected with a relief valve. 5. Gutter brooms shall have a variable speed control mounted inside the cab within easy reach of the operator. 6. Gutter brooms may be hydraulically or pneumatically raised or lower and be provided with dual in-cab controls. 7. Gutter broom design configurations shall provide a "down pressure" feature. 8. Gutter broom(s) shall incorporate a hydraulically or pneumatically controlled tilt capability of approximately 27 degrees which shall be remotely controlled from either operator's seat to allow instant adjustment for debris removal from deep gutters. 9. Gutter brooms shall incorporate a safety locking mechanism for transport which shall be activated automatically from within the cab. 10. Gutter brooms and components shall be of free floating digger style configuration with automatic lateral swing back protection,"kick back" feature to avoid damage if contact is made with high curbs or immovable objects. 11. An auto sweep interrupt system shall be provided. 12. Four (4) water spray jets shall be provided at each gutter broom location. 13. Two (2) additional water spray jets to be provided on each side of sweeper and mounted on lower rear corners of cab. 14. The cab mounted water spray jets shall be wired and activated separately from within the cab to provide additional dust suppression when needed. 15. Gutter brooms shall be capable of being operated independently of other sweeping gear. 16. The right and left side gutter broom components must be identical in design and build to permit interchangeability between left and right to sides.			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
23.0/ - PICK UP HEAD: 1. The pick-up head shall be a minimum of 41"x 87" in width. 2. The pick-up head shall be raised/lowered hydraulically. 3. The pressure and suction hoses shall be 14" in diameter. 4. The pick up head shall be spring suspended for low road surface wear. 5. The pick up head shall incorporate a "hop" feature for ingress of bulky materials. 6. Two (2) spray nozzles will be located at the inside intersection of the suction tube and pickup head and be serviceable from the exterior of the machine. 7. The pick up head shall have minimum 2" wide hardened wear resistant skids with carbide inserts that are "non-handed". 8. The pick-up head shall be capable of being operated independently of other sweeping gear. 9. The pick-up head shall be capable of sweeping in reverse without causing damage to the head. 10. The pick-up head shall be equipped with a hydraulically actuated front curtain lifter operated from inside the cab to aid in sweeping leaves and bulky debris. 11. Manufacturer's standard wide sweep broom shall be mounted at the rear of the pick-up head to aid in heavy duty debris removal and shall be fully enclosed. 12. Control of the broom rotation and positioning shall be accomplished by a single toggle switch located on the control console in the cab. 13. The broom shall be driven hydraulically with a separate hydraulic pump to be provided for all broom functions. 14. The broom shall be approximately 79" long and 12" in diameter. 15. Broom pattern adjustment shall be provided at the top of pick-up head. 16. Design of broom suspension shall provide automatic independent adjustment of each broom end to the surface being swept. 17. The broom cavity shall be provided with a deluge cleaning system utilizing an 1½" hydrant hose connector. 18. Two (2) hydraulic cylinders shall be incorporated to provide positioning and the independent suspension of the broom ends. 19. Down pressure and broom pattern shall be hydro mechanically controlled to provide maximum broom performance and life.			
EXCEPTIONS:			
24.0/ -CENTRALIZED SYSTEM: 1. All controlling systems for the sweeper's pneumatics', water and hydraulics shall be housed within the engine compartment to prevent damage from weather. 2. Each system shall be equipped with L.E.D. status indicators. 3. Test ports shall be provided for each system. 4. All body and sweeper electrical systems and components shall conform to Section 12 of this specification.			
EXCEPTIONS:			
25.0/ - HYDRAULIC SYSTEM: 1. The hydraulic system shall operate the following: pick-up head raise/lower, gutter broom rotation, body and rear door raise/lower. 2. To ensure adequate cooling, reservoir capacity to pump output shall be minimum of 2:1 ratio. 3. Hydraulic oil reservoir capacity shall be 18.5 gallons minimum and capable of maintaining continuous operation without overheating. 4. All hydraulic circuits shall be protected by relief valves. 5. Hydraulic reservoir shall have a fluid level sight glass. 6. The hydraulic system shall incorporate two (2) filters which shall be a 125 micron suction filter and a 25 micron return filter. 7. The body raise/lower functions shall be powered off the auxiliary engine if "dump to eject" is provided.. 8. An electric over hydraulic back up system shall be furnished in the event the auxiliary engine does not start. 9. The body dump controls shall be controlled via a handheld pendant to permit operation from within the cab or outside the cab. 10. The pendant shall have a 15' reach from the cab. 11. All hydraulic (or pneumatic) valves for sweeping gear shall be equipped with light emitting diodes to assist in troubleshooting if available. 12. All hydraulic plumbing shall be securely supported, wrapped and clamped to prevent vibration, abrasion, and excessive noise. 13. Hydraulic hoses/lines shall be secured with vinyl coated metal, bolt on clamps, a minimum of every three (3') feet.			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
26.0/ - WATER SYSTEM: 1. The water system shall be so designed as to eliminate any potential for dusting when operating. 2. Polyethylene water tank(s) shall be provided. 3. Water tank(s) capacity shall be 220 gallons minimum and the tank(s) must be baffled to minimize stress related movement. 4. Visual sight tube(s) shall be mounted on the water tank(s) and an "in cab" level indicator must be provided. 5. The tank(s) shall be provided with stainless valves to permit tank draining and flushing. 6. All fittings utilized in the water system shall be of brass or stainless steel construction. Plastic fittings of any type are not acceptable. 7. A hydraulically driven twin diaphragm water pump shall be provided and shall be supplied with an electronic solid state liquid level sensor to automatically shut off pump and turn on the low water warning lamp when water is depleted. 8. Water pump shall be self priming and not subject to damage when operated dry. 9. A 25' x 2 1/2" hydrant hose with quick connect coupling shall be furnished and shall be provided with a stainless 100 mesh cleanable filter. 10. Storage compartment shall be provided for the hose when not in use. 11. Machine shall be equipped with a 25' wash-down hose with retractable reel, spray wand with adjustable spray nozzle to facilitate unit cleaning. 12. All water valves and lowest point water runs shall have manual drain provisions. 13. Provisions shall be made to enable water tank filling to be accomplished by either hydrant or garden type hose from either side of sweeper. 14. The external mounted cleanable system water filter shall be provided and be easily accessible. 15. A shut off (isolation) valve must be provided to facilitate water system servicing. 16. Water manifold(s) provided shall be constructed of stainless steel. 17. The water system shall have a quick connect test port. 18. The water system shall have an adjustable relief valve. 19. Four (4) nozzle spray bar mounted on front bumper to accomplish earliest possible airborne dust suppression shall be provided. 20. Two (2) spray nozzles shall be mounted inside hopper, after mesh screens, to ensure fines are "weighted" out of air flow prior to entering separator and fan housing.			
EXCEPTIONS:			
27.0/ - AIR SYSTEM: 1. The sweeper air system shall incorporate a safety device which will ensure that in the event of a pneumatic failure, the chassis braking system will be automatically protected and air brake pressure will be maintained. 2. A self purging air dryer shall be provided with a built in timer to expel condensation. 3. The air system shall have a water trap to eliminate moisture. 4. The regulator shall have a shut off valve to purge only the sweeper system while maintaining chassis air pressure. 5. The pneumatic system shall have a quick connect test port. 6. Pneumatic system air lines shall be color coded for easy recognition of "live supply," "switched supply" and "exhaust". 7. The pneumatic system shall operate the following functions: gutter broom raise, lower and latch.			
EXCEPTIONS:			
28.0/ - CATCH BASIN CLEANING SYSTEM: 1. Vendor shall supply a catch basin cleaning system suitable to clean storm catch basins and easily operable by one individual. 2. At a minimum cleaning remote areas and catch basins, an auxiliary hand hose shall be provided. 3. The hose shall be a heavy duty 3/8" thick, eight (8) inch diameter, 10 feet long hose and have a 52" long metal nozzle. 4. The system hose shall be suspended from a hydraulically actuated swivel boom. 5. Boom controls shall be located on a remote controlling handheld pendant with 25' of cable. 6. Pendant controls shall include boom up/down and throttle up/down. 7. An additional 42" nozzle extension shall be provided and mounted on the rear door for easy access.			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
29.0/ - CAMERA SYSTEM: 1. A Zone Defense digital recording system with a four (4) camera, model 313C, viewing system shall be provided and include a 7" minimum LCD swivel monitor and include: Sound, Night Vision, 4 in 1 Display, Electromagnetic Noise Resistance, and Auto Switcher. (No adhesive mounting of any kind is permitted of any camera system component) 2. The recording unit shall be provided with a minimum of 160 gigabyte of storage space. 3. The camera/recording system shall be provided with the appropriate software to download, save and view the recorded data. 4. Cameras shall be mounted approximately as follows (specific mounting locations shall be confirmed by the vendor from the City of Kingsport before actual mounting) : <ul style="list-style-type: none"> ■ Forward Facing ■ Rearward Facing ■ Left Side ■ Right Side 			
EXCEPTIONS:			
29.0/ - EXTERIOR COLOR: <ul style="list-style-type: none"> ■ Sweeper unit shall be painted manufacturer's standard white color to match cab. ■ Two coats of polyurethane, or equivalent, paint shall be applied to the sweeper body. ■ Chassis and frame shall be manufacturer's standard black polyurethane color. 			
EXCEPTIONS:			
30.0/ - WARRANTY: 1. Manufacturer's full warranty shall be applicable to this unit(s) as equipped (12 month, 12,000 miles, Unlimited Hours, minimum). 2. Awarded vendor shall be required to reimburse any expenses incurred by the City covering transport labor cost or shipment charges on any unit component or attached component failure when the unit or component manufacturer requires an "Authorized dealer repair only" and when the authorized repair facility extends beyond a fifty (50) mile radius of the City of Kingsport city limits during the warranty period. 3. Towing and hauling service to a repair facility shall be provided at "no cost" to the City of Kingsport throughout the complete warranty period of the unit on any of the incorporated components or attachments on the unit. 4. The awarded vendor shall be required to reimburse the City of Kingsport for any and all unit warranty repair expenses, to include towing or hauling services, incurred by the City of Kingsport during the warranty period. 5. Reimbursement shall occur within a maximum of 30 days of notification of a reimbursement claim. 6. Awarded vendor shall agree to perform, or have performed, any and all warranty work on the unit and any installed attachment(s) or unit component throughout the complete warranty period which will begin at the time the unit(s) are placed into active service. 7. This specifications requires manufacturer's delayed warranty start. 8. Chassis, components, all attachments and body shall have a minimum 100% full warranty (parts and labor) for a minimum period of one (1) year from the time of cab/chassis/body service activation within the City of Kingsport fleet regardless of manufacturer or installer. 9. Warranty claims of any unit, component, or attachment shall be addressed within a period 3 days from time of notification by the awarded vendor. 10. Awarded vendor shall insure successful completion of any warranty repair within 10 business days from time of notification. 11. Towing service shall be provided though the warranty period for warrantable breakdowns requiring tow. 12. This warranty specification shall be honored in conjunction with any manufacturer's standard warranty regardless of exclusions.			
EXCEPTIONS:			
31.0 - MANUALS: Two sets (per unit) of sweeper parts, maintenance, repair, operator, and wiring/plumbing diagram/manuals and all other technical data for this unit(s), as equipped, shall be provided upon delivery. One set (per unit) of truck chassis operators, transmission repair, wiring diagrams/manual shall be provided.			
EXCEPTIONS:			

SPECIFICATIONS	Bidder Complies	YES	NO
32.0/ - TRAINING: 1. Successful bidder shall provide a minimum of 4 hours of technician service and operator training at the City's location 2. Training shall present the manufactures required maintenance, repair, and operating procedures and offer the technician and operator the full knowledge of the practices required for the successful, lifelong operation of the proposed vehicle and body. 3. Training shall be scheduled <u>after</u> unit is placed into active service. 4. Training shall be provided within one (1) week of service activation of the unit(s).			
THERE ARE NO EXCEPTIONS ALLOWED TO THIS SPECIFICATION			
33.0 / - DELIVERY: 1. Unit(s) shall be delivered complete with all provided options installed and a full tank of fuel. 2. The Diesel Exhaust Fluid tank shall be full if applicable to the unit(s). 3. Unit(s) shall be delivered complete with NO dealer advertising logos affixed to the interior or exterior, to include mud-flaps, of the unit(s) prior to delivery. 4. Delivered unit(s) shall come with all required paperwork to complete the purchase and registration process and shall include at a minimum: a. Invoice b. Mileage Statement (if applicable) c. Manufacturer's Statement of Origin (MSO)(if applicable). 5. Delivery acceptance of unit(s) may be refused if any part of the awarded specifications are not maintained. 6. Delivery acceptance of unit(s) may be refused if any device, feature or system is deemed as unsafe to the operator and/or the general public as determined by the City of Kingsport's knowledge or experience. 7. Delivered unit(s) are required to complete an acceptance inspection (school buses will require the additional State of Tennessee inspection) and shall be inspected against awarded specifications as a total unit, irregardless of multiple manufacturer contributions to the completed elements of the unit(s), before acceptance is granted. 8. Bidder misunderstanding and/or misinterpretation which results in an unsatisfactory bid or final delivered product is not the responsibility of the City of Kingsport. 9. The City of Kingsport shall have the sole interpretation of the bid requirements and shall have final determination whether submitted bids and/or the final product delivered satisfy the requirements of the bid. 10. All awarded bids shall be subject to final inspection of the unit(s) ordered by the Fleet Manager, or designee, and must be compliant with all bid requirements prior to acceptance of the unit(s) and final payment. 11. Any non-compliant unit(s) must be made compliant at the expense of the awarded bidder and within a reasonable time frame, as determined by the City of Kingsport. 12. Misinterpretation of the specifications by the vendor or failure to supply the appropriately equipped unit(s) specified or intended, based on the City of Kingsport's interpretation, shall be corrected to the benefit of the City of Kingsport by the awarded bidder at the bidders expense. 13. In all cases the City of Kingsport's interpretation and definition of unit(s) specifications and requirements shall be the final determination of a successful final inspection and compliance with awarded specifications before unit acceptance will be granted. 14. Failure to provide the requested documentation upon delivery shall be considered as non-compliance to awarded specifications and allows the City of Kingsport the right to refuse acceptance. 15. All "Trade In" units offered by the City of Kingsport are to be considered "AS IS, WHERE IS". 16. Any trade terms offered or required by a bidder will allow the City of Kingsport to reject their bids.			
THERE ARE NO EXCEPTIONS ALLOWED TO THIS SPECIFICATION			

SPECIFICATIONS	Bidder Complies	YES	NO
<p>34.0/ - MISCELLANEOUS INFORMATION REQUIRED: Vendor shall supply the following information in the space provided on the unit (cab/chassis/body) proposed:</p> <ol style="list-style-type: none"> 1. Location (City, State) of Cab/ Chassis Manufacturer. 2. Location (City, State) of Cab/Chassis Dealership. 3. Percentage of Import/ Domestic Content of Cab/ Chassis. 4. Location (City, State) of Body Manufacturer. 5. Location (City, State) of Body Dealership. 6. Percentage Import/ Domestic Content of Body. 7. Anticipated Fuel Economy (MPG) of Unit when utilized during transport/ work environment. 			
THERE ARE NO EXCEPTIONS ALLOWED TO THIS SPECIFICATION			