

DIESEL POWERED MECHANICAL STREET SWEEPING MACHINE

SPECIFICATIONS

GENERAL: It is the intent and purpose of these specifications to describe one (1) new Diesel Powered, Mechanical Street Sweeping machine. The Town of Bedford is considering the purchase of either an Elgin Broom Bear (mounted on a Freightliner M2 chassis with factory installed dual steering wheel configuration) or an Allianz Johnston 4000. Equivalent machines from other vendors will be considered for purchase as long as the interested vendor that their machine can meet or exceed the detailed specifications as listed below for each respective model. The bid is for a new, current year of manufacture machine. However, new, unused previous model years (such as 2009 model years) from manufacturers that have been sitting unclaimed on the manufacturers or dealers lot will be considered providing the vendor can ensure it meets the Town of Bedford's minimum requirements for each respective machine as annotated below.

The following specifications are to be considered minimum, unless otherwise specified.

Any deviations, additions or deletions from these specifications must be stated in a letter with your bid document and plainly marked to the correct area. Otherwise, the Town of Bedford will deem the unit to be as specified and upon receipt and inspection of the units, have the authority to return said units for noncompliance with the specifications.

Selling dealer (vender) and Manufacturer must be able to guarantee in writing a full service factory authorized repair facility and parts availability for the vehicle being bid and be authorized to do all warranty and repair work on the vehicle and major components (i.e. engines, transmissions, axles, etc.) Factory authorized repair facilities capable of performing warrantee work and major and minor repairs must reside within a 60 mile radius to the Bedford Highway Garage, 301 Adams Street, Bedford, NY, 10507. Distance from the Town of Bedford to an acceptable repair facility will be a factor in determining low bidder.

The equipment delivered shall comply with all applicable requirements of the New York State Department of Motor Vehicles and the Society of Automotive Engineers (SAE).

Delivery shall be made of the mechanical street sweeping vehicle fully equipped and serviced, ready for operation on the date indicated on the approved contract. Delivery of the machine is to be made to the Town of Bedford at the Highway Garage, 301 Adams Street, Bedford Hills, New York. A guaranteed date of delivery shall be included in the bid.

The Town of Bedford Head Mechanic must be notified at least two working days prior to the delivery to the Town of Bedford's Facilities at 301 Adams, Street, Bedford Hills, NY 10507.

The successful bidder shall guarantee that the vehicle and equipment to be delivered conforms in every respect with standards of workmanship, materials and performance, all provision of Federal and New York State Laws and Regulations; and these specifications. The bid shall include a warranty period covering defects of workmanship and materials.

Bid Security- The bidder will not be required to submit a check as security with the proposal. However, the Town reserves the right to require the successful bidder to deposit One Thousand Dollars (\$1,000) per Vehicle with the Town of Bedford as bid security before awarding the contract. The Town will retain this security as liquidated damages in the event that the successful bidder fails to deliver the equipment in accordance with this proposal.

Payment shall be made to the vendor within 45 days of receipt of invoice, subsequent to delivery and acceptance of the vehicle and associated equipment and documentation.

It should be stressed that the bid is for the purchase of EITHER an Elgin Broom Bear Sweeper OR an Allianz Johnston Sweeper (not both.) Equivalent models from other manufactures will be considered as long as they meet or exceed the minimum specifications for either of the two respective categories as stipulated within this document. In the end, only one sweeper will be purchased as a result of this particular bid. The Town will select whatever machine is deemed, in the opinion of the Bedford Commissioner of Public Works, to be in the best of the Town of Bedford and best meets the Department's needs. Although the bottom line price for each respective category of machine (i.e. either the Elgin Broom Bear or the Allianz Johnston 4000) is of importance, it is not the only factor

that will be considered in awarding this bid. Other concerns such as parts availability, reliability of the machine, basic design, etc. will also be considered in the making the final selection.

The Commissioner of Public Works reserves the right to reject any or all bids, to accept any bid or to waive any informality in the proposal as deemed in the best interest of the Town of Bedford.

DETAILED SPECIFICATIONS

The Town of Bedford is considering the purchase of a new diesel powered, mechanical street sweeping machine. Therefore the Town's Public Works Department is seeking requests for proposals for the purchase of a new Diesel Powered Mechanical Street Sweeping machine. As indicated above dealers/vendors can submit bid proposals of similar diesel powered, mechanical street sweepers for consideration that are new, unused and unclaimed from previous model years that have been sitting on the manufacturer's or dealer's lot as long as the vendor can demonstrate in writing (and by arranging for the viewing the vehicle in person, if so required by the Bedford Commissioner of Public Works) that the make and model number of the machine so proposed meets or exceeds the following minimum specifications as itemized below. It should also be noted that The Town of Bedford desires a 4 wheel mechanical street sweeper rather than a 3 wheel model. **The town also desires a mechanical conveyor type sweeper (It should be stressed that the town DOES NOT wish to obtain an impellor type vacuum type machine.)** The Town of Bedford will consider small deviations from the minimum standards in certain respects if, in the determination of the Bedford Commissioner of Public Works, the machine being proposed by the vendor can otherwise comply with the requirements as specified within the bid specifications cited herein.

As indicated on the corresponding Notice to Bidders, sealed bids will be received until 1 PM on June 21, 2010. The abovementioned sealed bids shall be mailed to or hand delivered to the Bedford Town Clerk's Office, 321 Bedford Road, Bedford Hills, NY 10507 at which time they shall be opened and read aloud.

ELGIN BROOM BEAR (or equivalent) BID SPECIFICATION REQUIREMENTS

As stated above, the Town of Bedford is interested in the purchase of an Elgin Broom Bear Street Sweeper or an Allianz Johnston 4000 Street Sweeper (or equivalent models from other manufacturers.) If you are interested in bidding on an Elgin Broom Bear (or equivalent model from another manufacturer), it must meet or exceed the following specifications:

**TECHNICAL SPECIFICATIONS
FOR ELGIN BROOM BEAR (OR EQUIVALENT)
SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CONVEYOR**

Section A – Chassis for Elgin Broom Bear (or equivalent.)

		COMPLY	
		Yes	No
<u>1.0 CHASSIS (Freightliner M2 2010 OR EQUAL)</u>			
1.1	For safety, service, parts availability, etc the chassis shall be of a commercially available conventional cab type configuration (Freightliner M2_or equal).	___	___
1.2	The wheelbase shall not exceed 136 inches; cab-to-axle shall be 70 in. Overall length not to exceed 266 inches. Outside width in transport mode not to exceed 8'. Overall height not to exceed 9'.	___	___
1.3	Gross Vehicle Weight Rating (GVWR) shall be not less than 33,000 pounds.	___	___
1.4	For safety, certification of Federal Motor Vehicle Safety Standard (FMVSS) compliance must be submitted with the proposal. Failure to comply will result in proposal being rejected as "non-responsive".	___	___
1.5	Chassis shall be capable of safely propelling the sweeper, loaded to the maximum GVWR, under all normal sweeping and transport conditions.	___	___
1.6	Vehicle shall be rated for carrying an 11,000 lbs. load in the hopper at highway speed of 58 MPH and should not be speed restricted by tire limitations.	___	___

1.7	Speed shall be governed at 58 MPH.	_____	_____
1.8	Manufacturer shall certify that pass-by noise level at 50 feet (per SAE J 1077) while sweeping, does not exceed 79 dB(A).	_____	_____
1.9	Front axle shall be an I-beam type, 68" track; with a minimum capacity of 10,000 lbs. Front axle shall have leaf spring suspension and shock absorbers as standard equipment to avoid high stress areas and cracking of the chassis.	_____	_____
1.10	Rear axle shall have a minimum capacity of 23,000 lbs.	_____	_____
1.11	Rear suspension shall be provided through a Chalmers rubber cushion suspension system having a minimum capacity of 23,000 pounds.	_____	_____
1.12	Rear axle shall provide a full width heavy duty, 80" track.	_____	_____
1.13	Two-speed rear axle shall have a 6.67/9.08:1 ratio. An auxiliary transmission for sweeping is not acceptable.	_____	_____
1.14	Turning radius shall not exceed 19ft. curb to curb. Front axle steering cut shall be 50 degrees minimum.	_____	_____
1.15	Brakes shall be full air dual circuit type with auto slack adjusters, front and rear. Wabco ABS brakes shall be supplied. Hydraulic brakes shall not be acceptable.	_____	_____
1.16	Air compressor shall be 18.7 CFM.	_____	_____
1.17	Parking brake shall be spring applied rear wheel drum and shoe.	_____	_____
1.18	Air shall be equipped with an Bendix AD-9 air dryer	_____	_____
1.19	Chassis shall include front tow hooks. Access to frame on both sides of machine for jacking purposes shall be available.	_____	_____

2.0 CHASSIS ENGINE

COMPLY
Yes No

2.1	Diesel engine shall be an electronic inline 6 cylinder, turbocharged, 507 cubic inch displacement. The engine shall supply power for propulsion and sweeper functions.	_____	_____
2.2	Horsepower rating shall be at least 240 HP @ 2200 RPM. Torque rating shall be 660 ft-lbs. @ 1300 RPM.	_____	_____
2.3	Engine shall be supplied with a low oil pressure and high water temperature warning system integrated in the engine electronic system.	_____	_____
2.4	Engine shall be equipped with a two stage, dual element dry-type air cleaner, spin-on fuel filter, full flow oil filter, and fuel water separator.	_____	_____
2.5	Radiator fan shall be a viscous drive type. Direct drive fans shall not be acceptable.	_____	_____
2.6	Anti-freeze/water mixture shall be rated at -34 F degrees.	_____	_____
2.7	Diesel fuel tank shall have a minimum capacity of 50 U.S. gallons.	_____	_____

3.0 TRANSMISSION

COMPLY
Yes No

3.1	Automatic transmission shall have five forward speeds and one reverse. (Allison 3500RDS or equal).	_____	_____
3.2	Transmission shift pattern shall be illuminated for night operation. Shift operation shall be by push button in lieu of shift lever.	_____	_____

- 3.3 Transmission shall be equipped with a heavy-duty oil cooler and magnetic drain plugs. ___ ___
- 3.4 Synthetic Transmission fluid (TES-295 compliant) shall be provided. ___ ___

4.0 TIRES AND WHEELS

COMPLY
Yes No

- 4.1 Front and rear tires shall be first line quality tubeless radial tires, 11R X 22.5, 14 ply rating. The Vendor shall include a rim mounted spare tire. ___ ___
- 4.2 Tires shall be mounted on 10 hub piloted steel disc 22.5/8.25 rims. ___ ___
- 4.3 Rear axle shall be equipped with dual tires for load capacity and stability. Rear mud flaps shall be supplied. ___ ___
- 4.4 All wheels shall be interchangeable to allow for emergency change at the job site. ___ ___

5.0 CAB

COMPLY
Yes No

- 5.1 For maximum visibility, the forward line of sight (distance from operating position to view of ground) shall be 16 feet maximum. ___ ___
- 5.2 Steering shall be full power with dual operator controls. Dual OEM dash mounted instrumentation, including speedometer, odometer, tachometer, hourmeter, water temperature, oil pressure, voltmeter, fuel gauge and transmission temperature gauge. ___ ___
- 5.3 Dual steering shall include right and left steering wheels, brake and throttle pedals, center mounted single windshield wiper control, dual turn signal controls, and tilt adjustment. ___ ___
- 5.4 Console shall have Left / Right primary driver switch which changes controls for the operator station and instrumentation from left to right and back. For safety driver switch can only be activated with the parking brake applied. ___ ___
- 5.5 Dual high back air ride seats with black cordura cloth covers and dual armrests shall be supplied. High Back Madura as per Freightliner specs. ___ ___
- 5.6 Each seat shall have a 3-point seat belt with automatic retractors. ___ ___
- 5.7 Sweeper shall include two (2) heated and remotely controlled from the cab, outside west coast type mirrors with 8-inch convex auxiliary mirrors. ___ ___
- 5.8 Cab shall be full width steel cab with one-piece fiberglass tilting hood. ___ ___
- 5.9 Hydraulic functions shall be controlled by a single rocker switch which activates the hydraulic power which is supplied from the "HOT SHIFT" PTO on the transmission. The hydraulic system must be able to be disengaged in case of a hydraulic oil leak, thus allowing transport capability without draining the hydraulic oil tank. Full time live hydraulics or the use of an auxiliary transmission in the drive train will not be acceptable. ___ ___
- 5.10 For safety during night sweeping, rocker switches shall be illuminated and clearly marked for easy identification. All sweeper controls shall be mounted between the two operator stations for easy reach and visibility. ___ ___
- 5.11 Cab shall be supplied with an AM/FM radio. ___ ___
- 5.12 Single electric horn shall be supplied. ___ ___
- 5.13 Cab interior environment shall be fully conditioned by fresh air heater / ventilator / defroster / air conditioning with a three speed fan. ___ ___
- 5.14 Cab shall have full flow through ventilation. ___ ___

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|------|---|-----|-----|
| 5.15 | Windshield wipers shall be two speeds with washer. | ___ | ___ |
| 5.16 | Wipers shall have an intermittent feature. | ___ | ___ |
| 5.17 | Interior of cab shall have acoustical insulation, automotive type trim, and center console. | ___ | ___ |
| 5.18 | Dashboard shall be fully faced with soft molded plastic; two cup holders shall be included. | ___ | ___ |
| 5.19 | Left and right hand side grab handles shall be supplied to aid in operator entry and exit from the cab. | ___ | ___ |
| 5.20 | Sweeper shall have an automatic electronic back-up alarm. | ___ | ___ |
| 5.21 | Each operator station shall have an adjustable sun visor. | ___ | ___ |
| 5.22 | Doors and ignition shall be key locked alike. | ___ | ___ |
| 5.23 | All glass shall be tinted safety glass. | ___ | ___ |
| 5.24 | Side windows shall have a defogger. | ___ | ___ |
| 5.25 | Door windows shall be roll down type. Sliding windows are not acceptable. | ___ | ___ |
| 5.26 | Manufacturer must certify that cab noise level while operating does not exceed 79 dB(A) (per J919 testing). | ___ | ___ |

COMPLY
Yes No

6.0 ELECTRICAL

- | | | | |
|-----|---|-----|-----|
| 6.1 | Chassis alternator shall not be less than 160 amp. | ___ | ___ |
| 6.2 | Shall be a 12-volt negative ground system. | ___ | ___ |
| 6.3 | Dual batteries shall be maintenance free, 12 volt, and 1850 CCA total. | ___ | ___ |
| 6.4 | For safety, all electrical circuits must be protected by manual reset circuit breakers. | ___ | ___ |
| 6.5 | Circuit breakers shall be mounted in the center control panel for easy access. | ___ | ___ |
| 6.6 | All lighting shall be DOT approved including combination stop and tail lights, backup lights, sealed multiple beam headlights, high beam - low beam switch, adjustable side broom and main broom spotlights, clearance and running lights, front parking and signal lights, four way flashers, dome light, illuminated gauges and instrument panel, illuminated rocker switches, self canceling directional signals, and hazard switch. | ___ | ___ |
| 6.7 | Warning lights shall indicate glow plug, air brakes, stop and tail light failure, charging system, park brake, engine oil system, hydraulic oil filter restriction and low spray water. | ___ | ___ |

COMPLY
Yes No

7.0 LIGHTING

- | | | | |
|-----|--|-----|-----|
| 7.1 | All lighting shall meet DOT safety requirements. | ___ | ___ |
| 7.2 | Front and rear shall have clearance lights. | ___ | ___ |
| 7.3 | Left and right sides shall each contain two clearance lights. | ___ | ___ |
| 7.4 | Front and rear directional lights with emergency flasher shall be provided. | ___ | ___ |
| 7.5 | Work lights for each gutter broom and the rear broom shall be provided. | ___ | ___ |
| 7.6 | Dash, all console switches and all gauges shall be illuminated. | ___ | ___ |
| 7.7 | An automatic back-up light and electric alarm shall be activated when transmission is placed into reverse. | ___ | ___ |

7.8 License plate holder shall be illuminated. _____

7.9 Vehicle shall have two rear side combination light/reflectors. _____

It should be noted that the Freightliner Chassis as itemized above will meet or exceed all the minimum specifications as listed below:

FREIGHTLINER M2 REQUIREMENTS FOR ELGIN BROOM BEAR:

AXLES:

Front - 10,000 lbs. with 12,000 lbs. (5,454 kg) springs
Rear - Two speed 23,000 lbs. (10,454 kg) with 23,000 (10,454 kg) Chalmers rubber suspension that is very stable during dumping and becomes more active under load.
Ratio - 6.67/9.08:1
Gross Vehicle Weight Rated (GVWR) - 33,000 lbs. (15,000 kg)

BRAKES:

Service:

Type - Full air, anti-lock
Front - 15 in. x 4 in. (38.1 cm x 10.2 cm) drum
Rear - 16.5 in. x 7 in. (42 cm x 17.8 cm) drum
Compressor Capacity - 18.7 CFM
Auto slack adjusters, front and rear

Parking:

Type - Spring set, air release

CHASSIS:

Manufacturer: Freightliner
Model – M2

Frame:

Type - Rail, High Strength 50,000 PSI,
Size – 5/16”x3”x101/8” in. (7.94mm x 76.2mm x 257mm)

DIMENSIONS: (with sweeper mounted)

Wheelbase - 136 in. (3450 mm)
Cab to axle - 70 in. (1778 mm) usable
Overall Length - 266 in. (6756 mm)
Overall Height - 108 in. (2743 mm) w/o beacon
Overall Width - 96 in. (2438 mm)
Dumping Clearance Height - 237 in. (6020 mm)
Turning Radius - 18 ft. 10 in. (5740 mm) (curb to curb)
Travel Speed – Meets all minimum Highway Speeds

ELECTRICAL SYSTEM:

Voltage - 12V
Alternator - 160 Amp.

WARNING LIGHTS AND CHIME:

Low coolant level, high coolant temperature, warning lights and buzzer, low air pressure

SEATS:

Two (2) single, air ride, black ballistic nylon cloth with Dual Arm Rest

DUAL STEERING:

Type - Full power hydraulic
Size - 18 in. (450 mm) diameter steering wheel with tilt column.

TRANSMISSION:

Allison 350ORDS 6-speed automatic (6th speed disabled)

WHEELS:

Front & Rear - 22.5 in. x 8.25 in. (57.2 cm x 21.0 cm) steel disc type

TIRES:

Front & Rear - 11R 22.5
Load Range G (14 ply rating)

ADDITIONAL FEATURES INCLUDED:

Convex Mirrors (L & R) 8 in. (203 mm)
Dual Steering
Radio installation package includes harness, speakers & antenna
Air Conditioner
Viscous Fan
Tinted Glass—All Windows
Front Spray Bar
Engine Hour Meter
Electric Horn
Electric Windshield washers with delay
Cruise Control
Viscous Fan
Auto Shutdown
Air Ride Seats
AD9 air drier w/heater
Blue stripe coolant hoses with constant tension clamps
1000 watt block heater
dual cup holders
Heated remote mirrors
Front Tow Hooks

OTHER EQUIPMENT TO INCLUDE:

AM/FM Radio CD

<p>Battery - Two (2) 12 Volt 1850 CCA Maintenance Free</p> <p>ENGINE: Manufacturer: Cummins Model – ISC 240 Cylinders - In-Line 6 Displacement - 507 cu. in. (8.3 L) Horsepower - 240 (180 kW) @ 2200 RPM Torque - 660 lb. ft. (898 Nm) @ 1300 RPM Oil Filter - Full-flow, spin on type Oil Capacity - 18 qt. (17 L) with filter Air Cleaner – High Capacity dry type with safety element & restriction indicator Fuel Tank Capacity - 50 gal. (189 L) Fuel Filter</p> <p>INSTRUMENTS (Dual Operating Positions): Water temperature gauge, tachometer, speedometer with trip odometer, fuel gauge, voltmeter, air pressure, oil pressure, transmission temperature on the left hand side and all FMVSS required gauges on the right hand side.</p> <p>EXHAUST: - EPA 07 emissions with particulate trap Vertical tailpipe R.H behind cab</p> <p>WARNING LIGHTS: Battery, cab latch, parking brake</p>	<p>Fender mount convex mirrors In-cab air filter restriction indicator Battery disconnect Daytime running lights 12” convex mirrors Auto Shut Down Feature ECU must include an electronic shut down system that monitors engine oil pressure, engine coolant temperature and engine coolant level. If a defect is detected, the engine will go into the idle mode for several minutes to allow the driver to maneuver the vehicle to an appropriate location. Several minutes after this, the engine will automatically shut down to prevent further damage.</p> <p>SWEEPER ITEMS TO INCLUDE WITH ELGIN BROOM BEAR: In addition to items otherwise specified within the bid specifications cited herein, the Bedford DPW also wants to include the following features:</p> <ol style="list-style-type: none"> 1. Elevator Stall alarm 2. Hopper up indicator/alarm 3. Hopper full indicator 4. Slow moving vehicle emblem 5. Strobe rear with wire mount and guard 6. Strobe front with wire mount and guard 7. LED lights stop/tail/turn 8. Rear flood light 9. Variable speed control, elevator 10. Reversible gutter broom Left Side 11. Reversible gutter broom Right Side 12. Rear Broom cover plastic 13. Hydraulic pump shutoff 14. PM 10 Compliant w/ PM10 front spray bar 15. Spare tire and wheel rim 16. “Lifeline” hopper coating with life time warrantee 17. Enhanced lighting package on left and right side brooms in addition to the standard lighting typically included that are mounted on the side broom arms. Vendor to explain the lighting augmentation in the remarks section of this document.
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Section B - Sweeper Module, Elgin Broom Bear (or equivalent.)

COMPLY
Yes No

1.0 INTENT

It is the intent of this specification to provide for the purchase of one (1) new and unused street sweeper (Elgin Broom Bear or equivalent) having a six wheel configuration, single engine for propulsion and sweeping, 4.5 cubic yard right side variable high dumping hopper, automatic transmission, dual steering and operator controls, squeegee flight conveyor, left side and right side broom with variable down pressure controlled from cab.

The following specification is based upon a Elgin Sweeper Broom Bear street sweeper

mounted on a Freightliner M2 chassis. The Bedford Public Works Department has evaluated different types of street sweepers and has determined that this product is well suited for the town's needs in safety, quality, performance, and standardization. This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality and performance against which all equivalent sweepers bid will be compared.

In comparing proposals, consideration will not be confined to price only. Contract will be awarded for the product which best serves the interests of the Town of Bedford when cost, product, safety, quality and delivery are considered. The Commissioner of Public Works for the Town of Bedford reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. A contract will be awarded to the bidder submitting the lowest responsible bid meeting the requirements.

COMPLY
Yes No

2.0 EQUIVALENT PRODUCT

Bids will be accepted for consideration on any make or model that is equal or superior to the sweeper specified. Decisions of equivalency will be at the sole interpretation of the Town of Bedford's Department of Public Works. A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. Original manufacturer's brochures of the proposed unit are to be submitted with the proposal. All modifications made to the standard production unit described in the manufacturer's brochures must be certified by the manufacturer and submitted with the bid, or the bid will be deemed "non-responsive" and rejected without further review. Bidder must be prepared to demonstrate a unit similar to the one proposed, if requested.

COMPLY
Yes No

3.0 INTERPRETATIONS

In order to be fair to all bidders, no oral interpretations will be given to any bidder as to the meaning of the specification documents or any part thereof. Every request for such a consideration shall be made in writing to the Bedford Town Clerk. Based upon such inquiry, the Town of Bedford may choose to issue an Addendum.

COMPLY
Yes No

4.0 GENERAL

The specification herein states the minimum requirements of the Town of Bedford. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The Town of Bedford will consider as "irregular" or "non-responsive" any bid not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the Commissioner of Public Works to make a reasonable determination of compliance to the specification.

It shall be the bidder's responsibility to carefully examine each item of the specification. Failure to offer a completed bid or failure to respond to each section of the technical specification (COMPLY: YES NO) will cause the proposal to be rejected without review as "non-responsive". All variances, exceptions and/or deviations shall be fully described in the appropriate section. Deceit in responding to the specification will be cause for rejection.

COMPLY
Yes No

5.0 SIDE BROOMS

5.1 Brooms shall be driven by a hydraulic motor directly mounted to broom disc plate. They shall be the vertical digger type, trailing arm design, mounted on right and left side.

- 5.2 To hold broom pattern, regardless of up and down motion, arm suspension design shall be the parallelogram type. ___ ___
- 5.3 Broom rotation speed shall be constant governed by load sensing hydraulic system, regardless of engine RPM or sweeper ground speed. ___ ___
- 5.4 Broom down pressure shall be adjustable by operator from the cab while moving. ___ ___
- 5.5 Broom shall be five (5) plastic segments, filled with 26" long tempered wire. Discs shall be cross-drilled for 5 or 4 segment usage. ___ ___
- 5.6 Broom diameter shall not be less than 44", protruding not less than 13" beyond outside of tire while sweeping. ___ ___
- 5.7 Broom location shall be directly below the operator's seat for maximum visibility. ___ ___
- 5.8 Each broom shall have a spotlight for night operation. ___ ___
- 5.9 Side brooms must be capable of extending from 110" (2794 mm) to 144" (3657 mm) with both side brooms activated. ___ ___

COMPLY
Yes No

6.0 MAIN BROOM

- 6.1 Broom shall be driven by a hydraulic motor through a chain and sprocket drive. ___ ___
- 6.2 Broom shall be segmented (i.e. NOT one piece) and shall be not less than 34" diameter and not less than 56" long. ___ ___
- 6.3 Broom rotation speed shall be constant, governed by load sensing hydraulic system, regardless of engine RPM or ground speed. ___ ___
- 6.4 Broom shall be full floating with self-aligning bearings. ___ ___
- 6.5 Broom shall be prefab segmented / strip disposable type, filled with 26" long polypropylene. ___ ___
- 6.6 Broom side plates shall be equipped with steel drag shoes. ___ ___
- 6.7 Sweeping path shall be not less than 7-1/2 feet wide with one side broom activated, and not less than 10 feet wide with both side brooms activated. ___ ___
- 6.8 Main broom shall be shielded by a plastic broom hood. ___ ___
- 6.9 Broom shall hydraulically slide rearward not less than 12 inches for ease of maintenance. ___ ___
- 6.10 Main broom and conveyor shall have a work light. ___ ___
- 6.11 Broom shall be hydraulically raised/lowered and be capable of movement independent of the conveyor assembly to effectively sweep varying debris. This independent movement also avoids damage to the main broom or the conveyor assembly during sweeping. ___ ___

COMPLY
Yes No

7.0 CONVEYOR

- 7.1 Conveyor shall be able to load hopper to 100% of rated useable capacity. ___ ___
- 7.2 Conveyor rotation, forward or reverse shall be selectable without leaving the cab. Hydraulic conveyor speed shall be constant governed by load sensing hydraulic system, independent of engine RPM or ground speed. ___ ___
- 7.3 Conveyor shall be constructed of 11 rubber edged flights driven by steel roller type chain on polyurethane sprockets (rubber chains with steel sprockets are ___ ___

not acceptable). The floor plate shall be a bolt in construction, two piece design, manufactured of abrasion resistant steel.

- 7.4 Conveyor shall be reversible in direction. The main broom shall stop rotation while conveyor is reversed. ___ ___
- 7.5 Conveyor shall be capable of effectively sweeping debris of varying sizes without the need to make any manual adjustments to the conveyor system. In cab conveyor height adjustment, independent of the main broom shall be supplied. ___ ___
- 7.6 To provide proper clearance during variable sweeping conditions, the lower portion of the conveyor shall be capable of raising 3 inches while sweeping, independent of main broom height. ___ ___
- 7.7 Conveyor to be full width of the main broom, 58" minimum. An auger system for feeding the conveyor is not acceptable. ___ ___

COMPLY
Yes No

8.0 HOPPER

- 8.1 For safety, the hopper shall be right side dumping, allowing an operator to observe the dump target and surrounding area at all times from the cab, without the use of mirrors. All dump controls to be cab mounted. ___ ___
- 8.2 Volumetric capacity shall be not less than 4.5 cubic yards, useable capacity not less than 3.3 yards. A hopper inspection door shall be supplied. ___ ___
- 8.3 Hopper shall dump at varying heights ranging from 38 inches through a height of 10 feet. Dump angle to be 50 degrees minimum. Fixed height dump systems are not allowed. ___ ___
- 8.4 Lift mechanism shall be double stage, scissors lift system. Hopper lift cylinders to be 3.5" x 33.5" stroke minimum, hopper dump cylinders to be 3.5" x 19.8" stroke minimum. ___ ___
- 8.5 Hopper to offer not less than 11" side shift of load for maximum dumping efficiency and for extra clearance between sweeper and dump truck. Minimum clearance between sweeper and truck shall be 28". ___ ___
- 8.6 Hopper load shall be visible at all times from the cab through a glass window and skylight. Window shall also be illuminated with a light for viewing at night. ___ ___
- 8.7 Maximum time for dump cycle shall not exceed 70 seconds. ___ ___
- 8.8 Lift capacity shall be not less than 11,000 lbs. ___ ___
- 8.9 Hopper to be constructed of 7 gauge abrasion resistant steel floor and 11 gauge door, top, and sides. The unit shall employ the Elgin "Lifeline" option for corrosion / wear protection and shall have a corresponding lifetime warrantee. ___ ___
- 8.10 Units that require use of jackstands and/or outriggers to stabilize chassis during dumping procedure shall not be acceptable. ___ ___

COMPLY
Yes No

9.0 WATER SYSTEM

- 9.1 Tank capacity shall be not less than 350 U.S. gallons. ___ ___
- 9.2 Tank shall be constructed of a non-metallic, non-rusting polyethylene material. Removable manhole cover for tank access shall be supplied. The water tank shall have a warrantee for the life of the vehicle. ___ ___
- 9.3 Water pump shall be centrifugal type capable of running dry without damage. ___ ___

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|-----|---|-----|-----|
| 9.4 | A water level gauge indicator shall be located within the cab. | ___ | ___ |
| 9.5 | Shall be equipped with 12 brass spray nozzles for dust suppression. 2 spray nozzles shall be over each side broom, 8 spray nozzles shall be located on the front bumper mounted spray bar. The front spray bar shall have left and right shut off valves for independent operation of the spray bar or adjustment of the spray water pattern. | ___ | ___ |
| 9.6 | Water fill hose shall be not less than 15' in length, equipped with 2-1/2" NST hydrant coupler. | ___ | ___ |
| 9.7 | Water to each area, side broom left or right, front spray bar shall be cab controlled with electrical activation switches. Valves, which control water flow, shall be heavy-duty "agricultural" type. | ___ | ___ |
| 9.8 | An in-line water filter with shut off valve shall be in water system to prevent contaminants from entering the water system | ___ | ___ |
| 9.9 | To prevent the contamination of the water supply, tank shall be equipped with an anti-siphon device. | ___ | ___ |

COMPLY
Yes No

10.0 HYDRAULIC SYSTEM

- | | | | |
|------|---|-----|-----|
| 10.1 | Reservoir shall have a capacity of 25 gallons with outside level and temperature indicator. | ___ | ___ |
| 10.2 | Pump shall be a variable displacement piston type, 6 cubic inch per revolution displacement maximum pump, directly driven, with load sensing to adjust flow based upon hydraulic oil demand in the sweeping gear to maximize efficiency and reduce heat for longevity of all the hydraulic systems. | ___ | ___ |
| 10.3 | To prevent contamination of the reservoir during the dump cycle, the reservoir vent shall be equipped with 40 micron, breather filter. | ___ | ___ |
| 10.4 | To prevent the possibility of contamination and the resulting damage to the hydraulic system, return lines for drive shall have a 10-micron full flow filter with bypass. | ___ | ___ |
| 10.5 | To minimize environmental damage caused by leaking fittings, all pressure hydraulic fittings must be ORFS type. All solenoids to be located in a single easily accessible location. A tank shut off valve shall be supplied. | ___ | ___ |
| 10.6 | For ease and accuracy of testing, all circuits shall have quick-disconnect check ports. | ___ | ___ |

COMPLY
Yes No

11.0 PNEUMATIC SYSTEM

- | | | | |
|------|---|-----|-----|
| 11.1 | There shall be a PR4 type pressure protector for the chassis air system to protect the chassis air system. | ___ | ___ |
| 11.2 | All pneumatic cylinders shall be interchangeable. | ___ | ___ |
| 11.3 | All pneumatic cylinders must be rated to 150 PSI and have a separate rod seal and wiper to prevent contamination entering the cylinder. | ___ | ___ |

COMPLY
Yes No

12.0 ELECTRICAL SYSTEM

- | | | | |
|------|--|-----|-----|
| 12.1 | Sweeper electrical system shall be integral to the chassis electrical system. | ___ | ___ |
| 12.2 | Sweeper shall have an electronic back-up alarm for additional warning and safety when chassis is in reverse. | ___ | ___ |
| 12.3 | Sweeper lighting shall include rear identification lights, side broom and rear | ___ | ___ |

clearance lights.

- 12.4 Sweeper wiring harnesses shall be color-coded and hot stamped with circuit name. _____
- 12.5 For safety, all electrical circuits must be protected by circuit breakers or fuses. _____

COMPLY
Yes No

13.0 CONTROLS

- 13.1 All sweeper controls shall be mounted on a fixed central console located between the left and right operators position and access. _____
- 13.2 The controls shall include all sweep, hopper, elevator, and lighting functions and shall all be located on the fixed operator control console. _____
- 13.3 The controls for sweep, spray water, and lighting functions shall be conventional rocker switches. _____

COMPLY
Yes No

14.0 SWEEPER INSTRUMENTS

- 14.1 Sweeper instruments shall include, right and left side broom down pressure, hydraulic filter restriction indicator, hydraulic oil temperature, spray water level indicator. _____

COMPLY
Yes No

15.0 PAINT

- 15.1 All visible exterior metallic surfaces shall be coated prior to assembly with polyester powder coat. The paint must be a minimum of 2 mils thick. The uses of acrylic enamels and/or polyurethane's are not acceptable. _____
- 15.2 Color shall be "White". _____
- 15.3 Vehicle shall have an accent color of Grey on the lower portions of the unit. _____

COMPLY
Yes No

16.0 MANUALS

- 16.1 A parts manual shall be provided. _____
- 16.2 An operation and maintenance manual shall be provided. _____
- 16.3 An engine manual shall be provided. _____
- 16.4 All manuals shall be originals; photocopies shall not be acceptable. _____

COMPLY
Yes No

17.0 WARRANTY

- 17.1 Manufacturer's warranty shall be not less than three (3) years on entire sweeper, including all parts and labor. Hopper warranty _____
- 17.2 Bidders submitting literature stating warranties which do not fully comply with warranty requirements of this specification must submit a letter from the manufacturer certifying warranty compliance as an integral part of their proposal. Failure to comply may cause the proposal to be deemed "non-responsive" and rejected without further review. _____

COMPLY
Yes No

18.0 SERVICE AND TRAINING

- 18.1 As stated above Vendors shall have a full parts and service facility within a reasonable distance from the town of Bedford Garage. State location and distance. _____
- 18.2 A qualified technician shall provide complete training to Operators and _____

Maintenance personnel at the Town of Bedford Garage. Training shall include safety, operation, maintenance and service.

19.0 DELIVERY

- 19.1 Sweeper shall be delivered F.O.B. to the Town of Bedford in first class operating condition. _____
- 19.2 Acceptance shall be subject to the inspection and approval of the Commissioner of Public Works. _____
- 19.3 Bidder shall state delivery time after receipt of order:

20.0 QUALITY

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

21.0 OTHER ITEMS TO BE INCLUDED:

- Elevator Wash Out System
- Life Line Hopper /rust and abrasive resistant coating.
- Sweep Resume/Raise in Reverse

22.0 OPTIONAL ITEMS

Upgrade to a 5 year parts and labor warrantee from the 3 year warrantee specified (this is not to be considered as part of the base quote price for the machine and will not be considered in the bid for the basic machine as otherwise specified in this document.) _____

ADDITIONAL COST: \$ _____

23.0 EXCEPTIONS AND DEVIATIONS

Bidder shall fully describe every variance, exception and/or deviation. Additional sheets may be used if required.

TOWING / TRANSPORT: 24 months 5,000 miles free towing to and from repair facility and / or DPW garage for related mechanical failures. The manufacturer will also be allowed to conduct (at no cost to the Town) repair work on site at the DPW facility at 301 Adams Street if deemed by the Commissioner of Public Works to be the most advantageous method of repair.

The Mechanical street sweeping machine shall be delivered to the Town of Bedford, New York's offices at 301 Adams Street, Bedford Hills, NY within 180 days of acceptance of bid submission by the town of Bedford. The price quoted in the bid submission shall include delivery cost of the machine by the vendor. The vendor is also responsible to provide a knowledgeable technician familiar with the operation of the machine to provide one working day's training to the operator(s) of the machine, DPW Foreman and the DPW mechanics at the time of delivery or at a mutually agreeable time within 2 weeks of the delivery date at the DPW facilities at 301 Adams St. Bedford Hills, NY at no charge to the DPW.

Failure on the part of the vendor to deliver the street sweeping machine within the 180 days specified above will result in the vendor having to provide a fully operational 4 wheel street sweeping machine to the Public Works Department on loan for free (including transport and delivery) until such time as the one on order is delivered intact and operational to the Bedford DPW offices.

As indicated above, the town of Bedford reserves the right to accept or reject any bid submitted by any vendor for any reason if determined to be in the best interest of the Town by the Bedford Commissioner of Public Works

PROPOSAL FOR FURNISHING ELGIN BROOM BEAR (or equivalent)

Name and Address of interested Vendor: If you are interested in providing a price quote for the Elgin Broom Bear Mechanical Street Sweeping Machine (or equivalent) itemized above, please provide the name and address of your firm and contact information below:

Name of Firm Submitting Bid: _____

Street Address of Firm Submitting Bid: _____

Name of Firm's authorized representative: _____

Phone Number of Firm: _____

Fax Number of Firm: _____

Email Address of Firm's Point of Contact: _____

If you are interested in submitting a bid on the Town of Bedford's new Diesel Powered, Mechanical Street sweeping machine (Elgin Broom Bear Diesel Powered Mechanical or equivalent) as specified above. Please provide a lump sum price quote both in numerals and writing below (Note this price quote does not include item 22 for optional 5 year warrantee extension, however all other items cited within the bid specification as indicated above should be included in the lump sum price quote for this machine.):

Provide Make and Model Number of Mechanical Street Sweeper being proposed: _____

\$ _____
Price Quote in Figures

Price Quote in Words

DELIVERY DATE: Please provide an estimated delivery date: _____

REMARKS:

If the vendor is unable to comply with any aspect of the bid specifications as itemized above please explain in the space below: _____

ALLIANZ JOHNSTON 4000 (or equivalent) BID SPECIFICATION REQUIREMENTS

If you are interested in bidding on the Allianz 4000 Street Sweeper, it must meet the following minimum specifications:

**TECHNICAL SPECIFICATIONS
FOR ALLIANZ JOHNSON 4000 (OR EQUIVALENT)
FOUR WHEEL SINGLE ENGINE MECHANICAL STREET SWEEPER**

The sweeper to be furnished under this proposal shall be a four wheel mechanical type, front wheel steer, single engine, high dump hopper, full hydrostatic drive, 5.6 cubic yard hopper capacity with dual gutter broom system. (Allianz Johnson 4000 or equivalent.) It shall be the manufacturer’s latest model and design. These specifications shall be regarded as MINIMUM. Bidders must furnish all descriptive literature, manufacturer’s compliance certificates and all other necessary data on the equipment proposed as required in the specification. Bidder must answer **YES** or **NO** to each specification line item except where asked to state specific data. Failure to answer correctly, or failure to respond will deem your bid as non-responsive. All line items with a “**NO**” response, shall be explained in detail on the “Exceptions to Bid Specification” pages provided below.

1. HOPPER

- 1.1 Hopper capacity shall be 5.6 cubic yards. _____
- 1.2 Hopper shall have a lifting capacity of 12,000 lbs. _____
- 1.3 Hopper rear and side panels shall be constructed of 12 GA. ribbed steel for strength and the floor and front aperture to elevator panels shall be constructed of grade 304 stainless steel. _____
- 1.4 Hopper dump system shall have a safety lockout system to prevent any forward or reverse movement of the sweeper with hopper in the raised position. _____
- 1.5 Hopper shall be raised and lowered by means of two 4” diameter hydraulic cylinders. _____
- 1.6 Hopper shall have a load discharge door which will open automatically when hopper is being raised and close automatically when hopper is being lowered. _____
- 1.7 Hopper dump control shall be by means of a single cab dash mounted rocker switch. _____
- 1.8 A seal shall be provided between the hopper and the elevator to prevent dirt and dust emission. _____
- 1.9 Hopper shall be a high dumping type, 114” minimum. _____

2. CAB

- 2.1 Cab shall be fully enclosed and of all steel construction. _____
- 2.2 Cab shall be mounted front and center of sweeper for safety and unobstructed, panoramic, operator vision. _____
- 2.3 Cab shall be attached to chassis frame by means of rubber mounts. _____

- 2.4** Cab shall be dust and weather sealed and be equipped with factory installed air conditioning, heater and defroster. _____
- 2.5** Grab handles shall be supplied on the front of the cab. _____
- 2.6** Cab interior shall be sound suppressed and insulated with an in cab noise level meeting all applicable regulations. _____
- 2.7** Cab shall be furnished with two seats, one being the primary operator's station and the other for the purpose of operator training. _____
- 2.8** Operator's seat shall be single bucket suspension type with cloth upholstery, dual arm rests, and shock absorbers. _____
- 2.9** Operator's seat shall have three point safety seat belts and "buddy" seat shall be furnished with a lap harness. _____
- 2.10** For operator safety and comfort, the front of seat to the front wall of cab shall be a minimum of 23", maximum 31". _____
- 2.11** For operator safety and comfort, the cab rear wall to cab front wall shall be a minimum of 56 1/2". _____
- 2.12** For operator safety and comfort, the back seat to center line of steering column shall be a minimum of 17", maximum 31". _____
- 2.13** Cab shall have a single lever operated tilt and telescoping steering wheel. _____
- 2.14** Cab shall have sliding windows on both right and left sides. _____
- 2.15** Cab shall have adequate storage space for driver's tool kit, lunch box, hard hat, coffee cup, coat etc. _____
- 2.16** Cab shall have dual west coast mirrors with extended frames and 12" convex sweeping mirrors on both sides. _____
- 2.17** Cab shall have a tinted safety glass throughout and a single full width tinted sun visor. _____
- 2.18** Cab shall be furnished with a full width interior ceiling shelf to accommodate a radio, documents and other equipment. _____

3. ENGINE

- 3.1** Sweeper shall be powered by a single Cummins ISB 280 EPA 2010, 6-cylinder, turbo charged inter cooled diesel engine with a horsepower rating of 280 HP @ 2300 engine RPM. Cubic inch displacement shall be 409 CID and net torque rating of 660 ft. lbs. at 1600 RPM. All sweeper functions and drive systems shall be powered by this engine. _____
- 3.2** Engine shall have a two stage dry type air cleaner with safety element and restriction indicator. _____
- 3.3** Engine shall be water cooled by aid of a 39 quart capacity radiator of swing-away design. _____

- 3.4 Antifreeze protection for engine shall be not less than minus 34 degrees Fahrenheit. _____
- 3.5 Engine shall automatically shut down and dispose itself from re-starting if any attempt is made to unlatch radiator away from its locked position. _____
- 3.6 Engine shall be protected against damage by means of an anti-crank device which will prevent re-engagement of starter while the engine is running. _____

4. TRACTION SYSTEM

- 4.1 Traction system shall be fully hydrostatic and capable of variable speeds up to 55 MPH. _____
- 4.2 Direction and speed selection shall be controlled by means of a dash mounted four position quadrant shifter, variable throttle control and a selectable High / Low ratio rear axle control. _____
- 4.3 The traction system shall be hydrostatic with a two speed differential final drive. _____
- 4.4 Engine mounted traction pump shall be variable displacement axial piston type. _____
- 4.5 Broom and elevator speed shall be independent of vehicle speed _____
- 4.6 The traction drive system shall be capable of being shifted from "LOW" to "HIGH" while the sweeper is in motion. _____
- 4.7 The traction pump and motor shall be relief valve protected. _____
- 4.8 Operational speed control shall be by means of a single automotive type foot pedal. _____
- 4.9 The traction system shall provide braking assistance when control pedal is released. _____

5. ELEVATOR

- 5.1 The elevator shall be 7 flight configuration with continuously molded rubber belts and replaceable corded rubber squeegee tips. _____
- 5.2 Elevator sprockets shall be of split flange type to enable replacement without having to remove belts and shafts. _____
- 5.3 Elevator sprockets shall have hardened teeth for longevity. _____
- 5.4 Elevator flight bars shall be constructed of 2" x 1/2" aluminum angle. _____
- 5.5 Elevator speed shall be variable and reversible. _____
- 5.6 Elevator belt shafts shall be of split design to facilitate easy belt replacement. _____

5.7 Elevator motor drive shall be direct hydraulic with relief cartridge protection. _____

5.8 Elevator shall have an adjustable floor and deflector system to ensure even hopper loading and prevent debris from back spilling. _____

6. HYDRAULIC SYSTEM

6.1 Hydraulic oil reservoir system shall consist of two frame mounted tower tanks, each with an oil capacity of 18 gallons. The residual oil capacity shall be an additional 5 gallons for a total system capacity of 41 gallons. _____

6.2 To provide dependable performance and reduce maintenance costs, the hydraulic system MUST include the following filtration elements:

6.2.(1) A 40 micron tank fill neck strainer in each tank _____

6.2.(2) Each tank MUST have its own suction strainer rated at a minimum 100 mesh. _____

6.2.(3) A suction filter with restriction gauge MUST be supplied with a minimum rating of 10 microns. _____

6.2.(4) A high pressure filter complete with restriction status indicator shall be supplied. _____

6.2.(5) A water / hydraulic oil separator / filter shall be installed in the return circuit. _____

6.3 Each hydraulic tank shall be provided with a 5 psi. pressurized fill cap. _____

6.4 Each hydraulic tank shall have rear mounted, accessible drain plugs. _____

6.5 A hydraulic oil cooler with dual temperature sensing fans, shall be remotely mounted at the front of the vehicle outside the immediate proximity of the actual area to be swept. _____

6.6 Hydraulic manifolds, valves and solenoids shall be mounted in a separate enclosed compartment, built into the rear fender of the machine. _____

7. PICKUP BROOM

7.1 Pickup broom shall be Section Strip type _____

7.2 Pickup broom drive shall be direct hydraulic, variable speed with relief valve protection _____

7.3 Pickup broom shall be hydraulically raised and lowered by a single, in cab dash mounted rocker switch _____

7.4 Pickup broom shall be self adjusting for pressure and wear _____

7.5 Pickup broom motor shall have a shaft and seal protection device which will prevent the ingress of damaging wire, cassette tape, fishing line, etc. _____

8. GUTTER BROOMS

- 8.1 Gutter brooms (right & left sides) shall be a minimum of 47” in diameter and each shall contain four bolt-on “Tuff Grip” disposable steel tine segments. _____
- 8.2 Gutter broom drive shall be completely hydraulic and relief valve protected. _____
- 8.3 Gutter brooms shall be hydraulically lowered and raised by means of an in-cab, dash mounted rocker switch _____
- 8.4 Provisions shall be made for gutter broom pressure adjustment by means of independent dash mounted switch gauges. _____
- 8.5 Gutter brooms shall be free floating both horizontally and vertically and shall be impact protected _____
- 8.6 Gutter broom curb angle adjustment shall be by simple multi hole vernier and anchor pin arrangement _____
- 8.7 Gutter broom support towers shall have adjustable travel “stop” mechanisms to limit inward travel of gutter brooms _____
- 8.8 Gutter broom motors shall have a shaft and seal protection device which will prevent the ingress of damaging wire, cassette tape, fishing line, etc. _____

9. WATER SYSTEM

- 9.1 Water tank capacity shall be 250 gallons minimum _____
- 9.2 Water tank shall be constructed of cross-linked corrosion proof material. _____
- 9.3 Individual, adjustable, variable flow, water delivery valves shall be installed in the sweeper cab to allow operator to control water sprays over main broom and both gutter brooms _____
- 9.4 Twin electric diaphragm pumps with total output rating of 4 gallons per minute @ 35 PSI shall be supplied. _____
- 9.5 An in line 20 mesh screen type filter shall be installed in an accessible area and shall be capable of being checked, cleaned or changed without the use of tools _____
- 9.7 A 15’ hydrant hose, coupler and wrench shall be supplied. _____
- 9.8 A high/low water flow switch shall be installed in the cab for additional water flow control _____

10. FUEL SYSTEM

- 10.1 Vehicle fuel system must include a 50 gallon diesel fuel tank. (minimum) _____

10.2 Fuel system must incorporate a vented fuel tank and a self priming system.

11. DIRT SHOES

11.1 Dirt shoes shall be of parallel arm design, polyethylene construction and be capable of floating over uneven surfaces, railroad tracks, raised manhole covers, etc.

12. BRAKES

12.1 Service brakes shall be internal expanding shoe and drum type on rear wheels and disc type on front.

12.2 Parking brake shall be mechanically applied and hydraulically released internal expanding type

12.3 Parking brake shall be automatically applied when sweeper is placed in "PARK" position

12.4 Brake master cylinder shall have an auxiliary boost feature

12.5 Standard braking system shall be assisted by vehicle's inherent dynamic braking when control pedal ("GO" Pedal) is released

12.6 All wheel A.B.S. braking system **must** be supplied.

13. STEERING

13.1 Steering shall be heavy duty, full power type, by means of an engine driven gear pump through a front axle mounted steering gear and shall be capable of operation in the event of engine shutdown

14. FRONT AXLE

14.1 Front assembly shall be heavy duty truck type configuration with its own multi-leaf spring and shock absorber suspension and rated at 10,000 lbs. capacity

15. REAR AXLE

15.1 Rear axle shall have a load rating of 18,800 lbs

15.2 Rear axle shall incorporate a two speed differential with the following ratios: High 6.5:1, Low 9.04:1

15.3 Rear axle shall have full suspension with rubber encased springs, torque rods and shock absorbers.

16. FRAME

16.1 Frame shall be constructed of 4 gauge, high strength low alloy steel (ASTM 607 or equivalent) with an RBM rating

of 863,700 inch pounds and a minimum yield strength of not less than 50,000 psi

16.2 Frame shall be 13" x 3" 'C' section channel

16.3 Frame shall incorporate tow points front and rear

16.4 A tool/storage compartment shall be built into right rear fender

16.5 Frame attached gutter broom towers shall have reinforced cut outs to enable access to lower elevator bearings for ease of maintenance

17. ELECTRICAL SYSTEM

17.1 Dual maintenance free batteries with a total CCA rating of 1800 amps. at zero degrees Fahrenheit, shall be located in a separate fender mounted, lockable compartment

17.2 A heavy duty 135 amp dust shielded alternator shall be supplied

17.3 All electrical connections shall be sealed and heat shrunk with epoxy resin connectors

17.4 A sealed electrical systems locker shall be provided to house all controlling electrical components and protect them from exposure to dirt and inclement weather

17.5 The system locker shall comprise of a sealed compartment to house both high amperage and low amperage components

17.6 All components within the locker shall be easily replaceable with minimum effort

17.7 All rocker switches in cab shall be sealed, back lit, and function identified

17.8 Bridge rectifiers shall be used in lieu of diodes and they shall be located within the systems locker

17.9 A laminated electrical control unit diagram shall be attached to systems locker door for instant easy reference during troubleshooting or repair procedures

17.10 Two sealed beam headlights with in dash high beam indicator shall be standard

17.11 Two-speed windshield wiper shall be provided

17.12 Sweeper shall be supplied with dual stop and tail light combinations, dual gutter broom lights, rear license plate light and bracket, back up lights and reflectors, self canceling turn signals with hazard flashers, electrical back up alarm (107 dBA minimum) and hopper dump alarm (107 dBA minimum).

17.13 All hydraulic manifold solenoids shall be pre-wired and shall have molded in flying leads to eliminate corrosion

17.14 All electrical wiring shall be solid colored, numbered and function coded every 12 inches for quick, easy identification purposes

18. SWEEPER BODY

18.1 Sweeper body shall have hinged, swing out single latched side panels for simple, easy access to elevator, fuel tank fill and water manifold components

18.2 Rear radiator grille and engine cover shall have stainless steel hinges to enhance longevity and eliminate rust.

18.3 A heavy duty front bumper shall be supplied

18.4 A rust and corrosion proof front grille shall be supplied.

19. WHEELS & TIRES

19.1 Wheels shall be heavy duty steel disc type. Split rims are not acceptable

19.2 Front tires shall be 9R x 22.5 load range F, SB radial

19.3 Rear tires shall be 315/80R x 22.5 load range L, SB radial

19.4 Rim mounted Front & Rear Spare Tires shall be provided

20. IN-CAB DASH & INSTRUMENTS

20.1 An automotive style, anti glare, wraparound dash with easily removable fascia and instrument panel shall be supplied

20.2 All dash mounted equipment including instruments, gauges, switches and display panels shall have extra length wires to permit lifting of dash for internal component access

20.3 Dash panel shall have a light emitting diode panel system which will monitor and provide an alert to the following systems: OIL PRESSURE, SWEEPER in PARK, RIGHT HYDRAULIC TANK LEVEL, LEFT HYDRAULIC TANK LEVEL, RIGHT AND LEFT TURN SIGNALS and HIGH BEAM INDICATOR. The panel shall also be capable of accommodating additional monitoring systems if required.

20.4 The dash board shall be of low cut design for completely unobstructed vision

20.5 The dash panel shall incorporate high flow adjustable side and windshield defrost vents

20.6 The side instrument panel shall accommodate all sweeping functions, heating and air conditioning controls

21. SWEEPER DIMENSIONS

21.1 Sweeper shall meet the following minimum requirements

- 21.2 Wheel Base..... 130 in. (3302mm) _____
- 21.3 Turning Radius (Not to exceed).....18.5 ft (5639mm) _____
- 21.4 Overall Length (Not to exceed).....204 in. (5182mm) _____
- 21.5 Maximum Height (Not to exceed).....114 in. (2692mm) _____
- 21.6 Maximum Width (Not to exceed)..... 102 in. (2591mm) _____
- 21.7 Sweeping Path.....125 in. (3175mm) _____
- 21.8 Maximum Weight/Empty.....17,800 lbs (8074kg) _____

22. PAINT

- 22.1 All sweeper components, including but not limited to, CAB, HOPPER, FRAME, ELEVATOR, BODY PANELS, ENGINE COVER PANELS, BODY FLOOR PANELS, GENERAL BRACKETRY, shall be powder coated. _____
- 22.2 Sweeper standard color shall be White _____

23. QUALITY

- 23.1 ALL fasteners above 1/4" in thread size shall be grade #8 or better. _____
- 23.2 ALL critical fasteners shall be torqued to manufacturer's quality requirements and a special torque striping paste shall be applied as witness to this procedure _____
- 23.3 ALL hydraulic hose pressure fittings shall be torqued to manufacturer's requirements and a special torque striping paste shall be applied as witness to this procedure _____
- 23.4 A complete set of extra hydraulic and cooling system hoses shall be provided with this machine. _____

24. WARRANTY

- 24.1 Sweeper shall carry a three year warranty covering 100% parts and labor with all repairs to be carried out at customer's yard. _____

25. MANUALS

- 25.1 The following documentation shall be supplied upon delivery of unit: _____
 - a) **Sweeper:** 2-Parts Manuals, 2-Service/Operation Manuals, 1-Operator's Guide _____
 - b) **Engine:** 1-Engine Users Guide. _____

26 TRAINING

- 26.1 Operator/mechanic training shall be provided at no charge

by dealer on customer's premises _____

27 OTHER ITEMS REQUIRED TO BE INCLUDED WITH THIS VEHICLE

- Elevator and Hopper Flush _____
- Stainless Steel Hopper _____
- In Cab Leaf Gate _____
- Right Side Gutterbroom Rototilt _____
- Air Seat _____
- 3 Year Warranty _____
- ECCO Arrowstick _____
- Right & Left, Rear Mounted Floodlight _____
- Heated Remote Control Mirrors _____
- Spare Front Tire & Wheel _____
- Spare Rear Tire & Wheel _____
- Two 8" Convex Mirrors Mounted Each Side _____
- Top Cab Mounted Whelan Strobe _____
- 2 Extra Gutterbrooms (segmented) _____
- 2 Extra Pickup Brooms (segmented) _____
- Rear Camera _____
- Window into hopper, illuminated with light from cab rear window
so driver can view load level while in the cab. _____

WARRANTY:

Minimum warrantee to include:

Engine: 3 years from date of delivery by engine manufacturer.

Body and mechanical: 3 years parts and labor except on wear items. Lifetime warrantee on Hopper, Vehicle Frame and water tank. It is important to note that a notarized written Guarantee from an authorized official from the manufacturer's headquarters will be required at the time of bid opening. This guarantee will indicate that the manufacturer will honor all warrantee work and will otherwise ensure parts and maintenance resources availability to the Town of Bedford in the event that the dealership (vendor) submitting a bid proposal on this machine goes out of business or discontinues their business relationship with the manufacturer.

TOWING / TRANSPORT: 24 months 5,000 miles free towing to and from repair facility and / or DPW garage for related mechanical failures. The manufacturer will also be allowed to conduct (at no cost to the Town) repair work on site at the DPW facility at 301 Adams Street if deemed by the Commissioner of Public Works to be the most advantageous method of repair.

The Mechanical street sweeping machine shall be delivered to the Town of Bedford, New York's offices at 301 Adams Street, Bedford Hills, NY within 180 days of acceptance of bid submission by the town of Bedford. The price quoted in the bid submission shall include delivery cost of the machine by the vendor. The vendor is also responsible to provide a knowledgeable technician familiar with the operation of the machine to provide one working day's training to the operator(s) of the machine, DPW Foreman and the DPW mechanics at the time of

delivery or at a mutually agreeable time within 2 weeks of the delivery date at the DPW facilities at 301 Adams St. Bedford Hills, NY at no charge to the DPW.

Failure on the part of the vendor to deliver the street sweeping machine within the 180 days specified above will result in the vendor having to provide a fully operational street sweeping machine to the Public Works Department on loan for free (including transport and delivery) until such time as the one on order is delivered intact and operational to the Bedford DPW offices.

As indicated above, the town of Bedford reserves the right to accept or reject any bid submitted by any vendor for any reason if determined to be in the best interest of the Town by the Bedford Commissioner of Public Works.

PROPOSAL FOR FURNISHING ALLIANZ JOHNSTON 4000 MECHANICAL STREET SWEEPING MACHINE (or equivalent)

Name and Address of interested Vendor: If you are interested in providing a lump sum price quote for the Allianz Johnson 4000 Mechanical Street Sweeping Machine (or equivalent) itemized above, please provide the name and address of your firm and contact information below:

Name of Firm Submitting Bid: _____

Street Address of Firm Submitting Bid: _____

Name of Firm's authorized representative: _____

Phone Number of Firm: _____

Fax Number of Firm: _____

Email Address of Firm's Point of Contact: _____

If you are interested in submitting a bid on the Town of Bedford's new Diesel Powered, Mechanical Street sweeping machine (Allianz 4000 Diesel Powered Mechanical or equivalent) as specified above. Please provide a price quote both in numerals and writing below:

Provide Make and Model Number of Mechanical Street Sweeper being proposed:

\$ _____
Price Quote in Figures

Price Quote in Words

DELIVERY DATE: Please provide an estimated delivery date: _____

REMARKS:

If the vendor is unable to comply with any aspect of the bid specifications as itemized above please explain in the space below: _____

Optional Warrantee Upgrade Proposal for Allianz Johnston 4000 (or equivalent)

The Vendor is asked to provide in the line below a price quote to upgrade to a 5 year parts and labor warrantee from the 3 year warrantee specified (this is not to be considered as part of the base quote price for the machine and will not be considered in the bid for the basic machine as otherwise specified in this document.)

Price Quote to furnish a total of 5 year parts and labor upgrade for Allianz Johnston 4000 (or equivalent)

\$ _____

NON-COLLUSIVE BIDDING CERTIFICATION

Made pursuant to Section 103-d of the General Municipal Law of the State of New York as amended by the Laws of 1966.

- (a) By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his knowledge and belief:
 - (1) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
 - (2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to the opening, directly or indirectly, to any other bidder or to any competitor; and
 - (3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

- (b) A bid shall not be considered for award nor shall any award be made where (a) (1) (2) and (3), above, have not been complied with; provided, however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where (a) (1) (2) and (3) above, have not been complied with, the bid shall not be considered for award nor shall any award be made unless the head of the purchasing unit of the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

_____ Date _____ Legal Name of Person, Firm or Corporation

Seal of Corporation: _____

Business Address of Person, Firm or Corporation

by: _____
Signature and Title

Town of Bedford

Indemnification and Hold Harmless Agreement

To the fullest extent permitted by law, Contractor/Subcontractor/Vendor will indemnify and hold harmless the Town of Bedford, it's officers, representatives, agents and employees from and against any and all claims, suits, liens, judgments, damages, losses and expenses, including reasonable legal fees and all court costs and liability (including statutory liability) arising in whole or in part and in any manner from injury and/or death of person or damage to or loss of any property resulting from the acts, omissions, breach or default of Contractor/Subcontractor/Vendor, it's officers, directors, agents, employees and subcontractors, in connection with the performance of any work by or for Contractor/Subcontractor/Vendor pursuant to any contract, Purchase Order and/or related Proceed Order. Contractor/Subcontractor/Vendor will defend and bear all costs of defending any actions or proceedings brought against the Town of Bedford, their officers, representatives, agents and employees, arising in any employee of the Contractor/Subcontractor/Vendor and shall not be limited in any way by an amount or type of damage, compensations, or benefits payable under any applicable workers' compensation, disability benefits or other similar employees benefit act.

The Contractor/Subcontractor/Vendor hereby expressly permits the Town of Bedford to pursue and assert claims against the Contractor/Subcontractor/Vendor for indemnity, contribution and common law negligence arising out of claims for damages for death and personal injury.

Company Title/Name: _____

Name: _____

Signature: _____

Date: _____

Nature/Scope of Work Being Performed: Manufacture, Purchase and Delivery of a new Mechanical Street Sweeping Machine.