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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for Quotation

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708EC012

PAGE

ADDRESS CORRESPONDENCE TO ATTENTION OF

MICHAEL AUSTIN 304-558-2402

*712113101 800-423-8903 ATLANTIC MACHINERY INC 2702 GARFIELD AVENUE

SILVER SPRING MD 20910

DIVISION OF HIGHWAYS EQUIPMENT DIVISION ROUTE 33 BRUSHY FORK ROAD

BUCKHANNON, WV

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GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid.
- 3. All quotations are governed by the West Virginia Code and the Legislative Rules of the Purchasing Division.
- Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
- 5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
- 6. Payment may only be made after the delivery and acceptance of goods or services.
- 7. Interest may be paid for late payment in accordance with the West Virginia Code.
- 8. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
- 12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- 13. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
- 14. HIPAA Business Associate Addendum The West Viginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division.
- 2. SPECIFICATIONS: Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Complete all sections of the quotation form.
- 4. Unit prices shall prevail in cases of discrepancy.
- 5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 6. BID SUBMISSION: All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130



State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

800-423-8903

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26201

***712113101** ATLANTIC MACHINERY INC 2702 GARFIELD AVENUE SILVER SPRING MD

DIVISION OF HIGHWAYS **EQUIPMENT DIVISION** ROUTE 33 **BRUSHY FORK ROAD BUCKHANNON, WV**

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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

AFO NUMBER 708EC012

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MICHAEL	AUSTIN		
304-558-	2402		

***712113101** 800-423-8903 ATLANTIC MACHINERY INC 2702 GARFIELD AVENUE

SILVER SPRING MD 20910

DIVISION OF HIGHWAYS 8 H P **EQUIPMENT DIVISION** ROUTE 33 **BRUSHY FORK ROAD** Ţ BUCKHANNON, WV 26201

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for

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ADDRESS CORRESPONDENCE TO ATTENTION OF:

MICHAEL AUSTIN 304-558-2402

26201

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS NO. 044-1-B

OPEN END CONTRACT TRUCK MOUNTED REGENERATIVE AIR STREET SWEEPER

1.0 PURPOSE

It is the purpose of these specifications to describe a Truck Mounted 6-Wheel Regenerative Air Street Sweeper (hereinafter referred to as a "street sweeper" or a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

2.0 BIDDING PROCEDURES

The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply. Failure to submit the "Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail. Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, MAY RESULT IN AUTOMATIC DISQUALIFICATION.

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to Specifications". The state reserves the right to determine whether the stated exception does or does not reduce the quality and performance of the unit. Failure to provide information for any exceptions may be grounds for rejection of the bid. The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

3.2 MANDATORY SPECIFICATIONS

All specifications preceded by "shall, will, and/or must" or are stated as a "minimum and/or maximum" are mandatory. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section may also be grounds for immediate disqualification at the discretion of the State.

A mandatory pre-bid conference is scheduled for this equipment purchase as stated in the RFQ. Vendors having products with variations or exceptions in specified mandatory items are expected to address any such variations or exceptions during the pre-bid conference. The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.

4.0 REPRESENTATIVE UNIT FOR TEST

The successful vendor must (if specified) provide DOH one (1) completed representative unit to be observed and evaluated on each order to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) working days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid shall be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendor's expense.

4.1 CONDITION OF UNIT(S) UPON DELIVERY

All units must arrive at the prescribed delivery point having been completely preserviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.

4.2 DELIVERY

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 90 days after receipt of purchase agreement. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. **Delivery terms shall**

be stated in the bid and the State reserves the right to accept or negotiate such terms. Failure to reach an agreement may result in rejection of the bid. The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.

A completed pilot model for inspection must be provided within 60 calendar days after receipt of the purchase agreement by the successful vendor.

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D.O.T. Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

5.0 AWARD CRITERIA

5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. The award shall be made to the lowest unit cost vendor that meets or exceeds the specifications.

DOH reserves the right to place multiple orders in any quantity.

- 6.0 SPECIFICATIONS AND GUIDELINES GENERAL
- 6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

The bidder must identify the unit by manufacturer, model, series, and year of manufacture, in the bid to enable identification by DOH in the manufacturer's specifications of the proposed unit. The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model, including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered to be manufactured after January 1, 2008 and be clearly identified and marked with date of manufacture.

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS
An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) must be with pilot unit upon

delivery. In addition, there must be 12 service, shop, or maintenance manuals; ten (10) to be distributed to the Districts and two (2) for the Equipment Division. Also, there must be 14 parts manuals; ten (10) to be distributed to the Districts and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts or service manuals.

* NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.

6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. In order to keep the operators and mechanics updated, the successful vendor shall conduct training with each purchase order against this open end contract. Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual to be shipped direct to WVDOH Training Academy, Post Office Box 610, Buckhannon, West Virginia 26201 prior to delivery of the pilot.

The seminar to be held at the W. Va. Division of Highways, Equipment Division, Buckhannon, West Virginia.

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Procedures to be used by the operators of this equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc.

The successful vendor shall furnish all training aids; i.e., videos, projectors, etc. required in conducting the training.

6.5 WARRANTY AND SERVICE POLICY

The Manufacturers warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer, representing manufacturer of proposed unit throughout the State of West Virginia. The applicable warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory authorized agencies. It will be the responsibility of the bidder to have available labor to repair or replace any defective replacement parts, components and materials, and to have available those replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The bidder should state the labor rates, locations where parts will be stocked, availability of parts, and discounts offered for parts, when terms of the warranty offer a pro-rated cost for parts and labor. In addition, the successful bidder should offer field work to repair or replace defective parts, components, and materials found to be defective during the terms of the warranty and should provide mechanic's travel rates,

mileage charges, field mechanic rates, and any surcharge for miscellaneous items, if applicable, for field work during the warranty period. Submit to Division of Highways any technical or engineering improvements during the term of the warranty. The unit must be accompanied upon delivery by the unit's manufacturer's executed warranty or service policy.

A mandatory minimum two (2) year bumper to bumper basic parts and labor warranty is required for this unit.

THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).

6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

6.7 UNSPECIFIED ACCESSORIES & FEATURES

All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.

All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified, and except those which, by specification, are not to be furnished. All standard safety features, required by Federal and State Law, shall be included.

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

SPECIFICATIONS - CAB AND CHASSIS

- 7.1 GVW plate rating: 31,000 33,000 Lbs.
- 7.2 Cab to Axle dimensions: The distance from centerline of the rear axle to the rear of the sweeper without the wandering hose shall not exceed 52 inches
- 7.3 Wheelbase: Shall not exceed 160 inches

- 7.4 Frame: The manufacturer shall provide a frame that meets or exceeds all Federal requirements for GVWR.
- 7.4.1 Frame steel: 80,000 PSI minimum
- 7.5 Cab: Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator shall not exceed 14 feet for an ASE 98th percentile size operator.
- 7.5.1 Steering shall be full power with dual operator controls, steering system shall have two (2) independent steering columns connected by a cross shaft
- 7.5.2 Interior of cab shall have acoustical insulation for low operating noise, automotive type trim, and center sweeper console
- 7.5.3 Unit to be equipped with cruise control feature (fully electronic)
- 7.5.4 Cab door locks, both doors (with key only)
- 7.5.5 Dual Sun visors
- 7.5.6 Cab shall have auxiliary 12v power outlet
- 7.5.7 Seats: Dual air ride bostrom cloth covered seats fully adjustable
- 7.5.7.1 Seat belts: 3 point lap and shoulder type
- 7.5.8 Floor Mats: Rubber floor mats throughout cab area with non-absorbent backing under the mats
- 7.5.9 Turn Signals: Manufacturers heavy duty, self cancelling type with hazard warning Switch
- 7.5.10 AC, Heater, and Defroster: Fresh air type, heaviest duty
- 7.5.11 Cab shall have full flow through ventilation for optional temperature control and operator comfort
- 7.5.12 Windshield Wipers and Washers: 2 speed with washer with intermittent feature at both driving positions. Windshield washer reservoir capacity one (1) gallon minimum
- 7.5.13 Instruments: Manufacturer's gauges both left and right operation with visual audible, and programmable warning to inform driver when operating conditions are exceeded shall include:
- 7.5.13.1 Chassis left and right side operator instrument panel shall be chassis OEM, full vision illuminated with tachometer, speedometer, odometer, trip odometer, fuel gauge, water temperature gauge, air pressure gauge, volt gauge, oil pressure, and transmission temperature gauges

7.5.13.2	Chassis engine instruments shall include warning light and chime for low oil pressure and high coolant temperature, low oil pressure and low air pressure to warn the operator of a potential problem before any damage to the engine occurs.
7.5.13.2.1	Console shall have left/right primary drivers switch
7.5.13.3	Chassis engine shall have hourmeter
7.5.14	Rearview Mirrors: Dual, West Coast Type, with 8 inch convex spot mirror for easy viewing of the side broom during sweeping, of rust resistant material and mounting brackets
7.5.14.1	Mirrors: Fender mounted stainless steel 8 inch convex mirrors shall be provided to increase operator visibility.
7.5.15	Glass: To be manufacturers tinted safety glass; front side, and rear. Side glass shall have defogger
7.5.16	Radio: Manufacturers standard AM/FM stereo with seek and scan features
7.5.17	Air conditioning: Manufacturers fresh air type heaviest duty (Ref. 7.5.10)
7.5.18	Front mudflaps to be manufacturers standard for unit bid
7.5.19	Emergency triangle warning kit, with hold down (KD 610-464S, KD Lamp Co. or equal) stowed (fastened) in the cab. (Check with DOH before mounting)
7.5.20	Accessories not indicated above but are included in the manufacturer's standard cab shall be provided
7.5.21	Successful vendor shall provide WVDOH with complete list of all filters required for normal maintenance on proposed unit
7.6 En	gine:
7.6.1	Diesel Engine: Shall be 175 HP minimum @ approximately 2200 RPM
7.6.2	Engine shall be equipped with a dual stage dry-type air cleaner, spin on fuel filter, and full flow oil filter
7.6.3	In engine block heater 1250 W, (approximate)
7.6.4	A single exhaust pipe with muffler that will meet all Federal noise abatement requirements. Heat shield on vertical exhaust
7.7 Co	oling System:

7.7.1

The cooling system to be capable of maintaining engine temperature within the manufacturer's recommended range during continuous operation

- Radiator fan shall be viscous drive type 7.7.2 The system shall be filled with extended life OAT (organic acid technology) 7.7.3 permanent type antifreeze rated to a -30° F minimum 7.8 Fuel Tanks: Capacity: 1-50 gallon fuel tank shall be shared by both engines and shall be 7.8.1 easily accessible without raising or shifting any components (Inside cab fuel gauge shall be supplied, sight tube not acceptable) 7.9 Electrical System: Type: 12 volt negative ground system with manufacturer's radio interference 7.9.1 Suppression Batteries: 7.9.2 Shall be in an enclosed accessible environment for ease of service 7.9.2.1 Cold Crank AMPS: 1500 AMPS minimum 7.9.2.2 Alternator Capacity: 130 AMPS minimum brushless with internal regulator 7.9.3 Lighting: Shall conform to the West Virginia Motor Vehicle Code 7.9.4 Transmission: Allison Series 2500 (or equal) 5-speed with overdrive 7.10 Rear Axle: Shall be two (2) 8 speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for 7.11 proper sweeping and transport speeds Rated Capacity: 21,000 Lbs. 7.11.1 Rear Spring Capacity: 23,000 Lbs. with multi leaf auxiliary springs 7.11.2 Rear axle differential, transmission, and front wheel lubrication reservoirs shall 7.11.3 be filled with synthetic type lubrication and provided with magnetic drain plugs where applicable Unit to be equipped with manufacturers heavy duty rear shock absorbers (if required) 7.11.4
- 7.12 Front Axle:
- Capacity: 12,000 lbs. minimum I-beam type 7.12.1
- Front Spring Capacity: 12,000 lbs. 7.12.2
- Manufacturers heavy duty shock absorbers/and stabilizer bar 7.12.3

- 7.13 Brakes should be:
- 7.13.1 Type: Full air with manufacturers ABS through a 4 channel full vehicle wheel control system in compliance with the most current FMVSS requirements
- 7.13.2 Compressor: 13.2 CFM minimum
- 7.13.3 Parking Brake: Spring set, air release actuating rear axle service brakes. Instrument panel control.
- 7.13.4 Air dryer with heater Bendix Westinghouse AD-9 or equal
- 7.13.5 Manufacturer's standard air tanks for service brakes; auxiliary tank for parking brake
- 7.13.6 Low air pressure warning light and buzzer
- 7.13.7 Brakes shall meet or exceed all current Federal and State FMVSS requirements.
- 7.13.8 Brake dust covers to be installed on all wheels
- 7.14 Tires and Wheels for safety and to allow emergency interchange of tires at a job site/ front and rear (tires/rims) shall be interchangeable
- 7.14.1 Wheel, Front and Rear: 22.5 x 8.25 10 hole hub piloted steel disc type, to accommodate specified tire size
- 7.14.2 Tires:
- 7.14.2.1 Front and Rear: 11R22.5G; 14 ply. The rear axle shall have dual tires for load capacity (singles not acceptable)
- 7.15 Unit shall include all other features considered as manufacturers standard equipment if not specifically addressed above
- 7.16 Paint: Manufacturers standard
- 7.16.1 The Department reserves the right to view larger paint samples after award of contract.
- 7.16.2 In order to test the adhesive qualify of the paint, the DOH may, at its option, require that the vendor measure adhesion by the criteria set forth in ASTM D3359-74, Method B. A rating of less than 4 on this test would be deemed unacceptable.
- 7.17 Vendor must certify that the unit offered will meet or exceed the "Occupational Safety and Health Act of 1970" and subsequent amendments.
- 7.18 Advertising: No visible decals or nameplates or painted on names representing the manufacturer or model number or trademark should appear on the exterior of the unit. Logos created through the stamping or casting process of manufacture are acceptable.

- 7.19 Preventive Maintenance and Operator's Training School
- 7.19.1 Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects Preventive Maintenance and Operator Training. The seminar should be held at the Equipment Division, Buckhannon, W. Va.
- 7.19.2 In addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Training procedures to be used by the operators of this equipment, include such things as daily pre-start, inspection procedure, service schedule and routine maintenance required, safety precautions, etc.
- 7.19.3 The successful vendor shall conduct training of the completed unit.

Bidder shall attach a copy of the proposed program with his bid, state the time required to perform the program and briefly describe his program.

- 8.0 SPECIFICATIONS OF SWEEPER MODULE

 New Regenerative Air Street Sweeper having a 6-wheeled, truck chassis with dual diesel engines, sweeper controls and switches, 8.0 cubic yard hopper, automatic transmission, 220 gallon water tank, left and right side broom with variable down pressure controlled from the cab.
- 8.1 Water Tank:
- 8.1.1 Tank capacity shall be 220 gallon of water minimum
- 8.2 Sweeper Engine:
- 8.2.1 Diesel Must be Tier 3 Emission compliant, 4 cylinder turbocharged, 276 CID John Deere 4045T or equal
- 8.2.2 Horsepower: Minimum 115 HP @ 2500 RPM, minimum torque 291 lb. ft. @ 1400 RPM
- 8.2.3 Engine should be wet sleeved
- 8.2.4 Unit shall have dual element dry type air cleaner with restriction indicator
- 8.2.5 Engine coolant shall be extended life OAT (organic acid technology) permanent type antifreeze protected to -30° F
- 8.2.6 Sweeper engine shall drive the blower fan by a heavy duty five (5) "V" groove power belt
- 8.2.7 Sweeper engine shall be in an enclosure for sound attenuation, enclosure to include doors for access to serviceable items or tilt hopper
- 8.3 Blower:
- 8.3.1 Blower shall be rated at a minimum 17,000 CFM by an independent test facility (documentation shall be attached)

8.3.2	Operation speed of the fan shall be minimum 2,000 RPM					
8.3.3	Blower shall be of the closed or open face turbine type, minimum nine (9) vans, 31 3/8 inch diameter					
8.3.4	Blower to be constructed of abrasion resistant steel					
8.3.5	Blower housing to be constructed of 10 gauge steel and lined with Linafex or 3/8 inch corded rubber shall not be part of the hopper					
8.3.6	Blower housing shall have an inspection door (air exhaust opening)					
8.3.7	Blower to be mounted and supported on both sides by heavy duty greasable bearing					
8.3.8	Bearings shall be greasable from ground level, without tilting the hopper					
8.4 P	ick Up Head:					
8.4.1	The pick up head shall be spring balanced					
8.4.2	Pick up head to be all steel construction with upper and lower chambers					
8.4.3	Minimum 87 inches wide					
8.4.4	Minimum 30 inches high					
8.4.5	Minimum total area 2610 square inches					
8.4.6	Minimum 14 inch diameter pressure hose between blower outlet with the pickup head (urethane transition hose not acceptable)					
8.4.7	Minimum 12 3/4 inch diameter suction hose with quick disconnect					
8.4.8	In cab electric operated pressure relief valve/vacuum enhancer/leaf bleeder for optimum leaf and light debris sweeping, shall be supplied on pressure side					
8.4.9	Front and rear debris curtains shall be removable without removing the pick up head from the unit					
8.4.10	Sweeping Path:					
8.4.10.1	Pick up head only – minimum 87 inches					
8.4.10.2	One (1) side broom and pick up head – minimum 110 inches					
8.4.10.3	Two (2) side broom and pick up head – minimum 142 inches					
8.4.11	Pick up head shall be equipped with side mounted adjustable steel runners with carbide inserts. Minimum width 1 1/8 inches					

8.4.12	Raise and lower of pick up head shall be done hydraulically by a rocker switch on the control panel inside the cab
8.4.13	A center broom in the rear or front of the pick up head shall be supplied, to be controlled by rocker switch in cab
8.4.13.1	Center broom shall be hydraulic driven
8.4.13.2	Center broom minimum 66 inches long
8.4.13.3	Center broom minimum 10 inches in diameter
8.5 Si	de Brooms:
8.5.1	Right and left broom shall be a free floating trailing arm design with inward motion safety to prevent damage when sweeping and encountering fixed obstacles
8.5.2	Trailing arm shall be of parallelogram design
8.5.3	Brooms shall be minimum 42 inches diameter
8.5.4	Brooms shall be hydraulically driven
8.5.5	Brooms must be pneumatically or hydraulically raised, lowered, and suspended
8.5.6	Broom down pressure must be pneumatically controlled from the cab by operator or automatic by load and speed sensing hydraulics
8.5.7	Broom hydraulic motor drive must have minimum 6045 in/lbs. of torque
8.5.8	Side brooms to have greaseless pivot pins and/or grease zerc
8.5.9	Transport hook shall hold side broom assemblies in storage position or hydraulic lock in system
8.5.10	Rocker switches in cab are used to control side broom
8.5.11	Side broom retraction while sweeping to provide scrubbing action must be controlled from the operator seat
8.5.12	Right side broom shall tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator
8.6 Ho	pper:
8.6.1	Volumetric capacity – minimum 7.3 cubic yards
862	Construction – minimum 10 gauge steel sides, minimum 3/16 inch floor

8.6.3	Weight actuated full load indicator must be mounted in the cab on control panel					
8.6.4	Dump angle minimum 50°					
8.6.5	Dump angle shall be achieved by use of 2 stage telescopic cylinder or dual hydraulic cylinders					
8.6.6	Floor angle minimum 3°					
8.6.7	Abrasion resistant "scoop" style steel deflector shall be located at the suction inlet to direct material to the center of hopper					
8.6.8	Hopper rear door must be hinged at the top of the door and opened by hydraulic Cylinder					
8.6.9	Hopper rear door opening minimum 90° angle					
8.6.10	Right hand side (passenger side) of hopper shall have hydraulic valve levers to operate hydraulic cylinder movement					
8.6.11	Hopper rear door must have internal door prop					
8.6.12	Hopper rear door to have automatic look mechanism for tight fit					
8.6.13	Hopper rear door seal must be water resistant reinforced					
8.6.14	Hopper screens shall be hinged for easily cleaning and inspection					
8.6.15	Total hopper screen area minimum 3,000 square inches					
8.6.16	Hopper screen material minimum 11 gauge steel					
8.6.17	A minimum eight (8) inch inside diameter by 9.5 foot long hydraulic wandering hose located at rear of unit for cleaning catch basins shall be provided					
8.6.18	An eight (8) inch diameter by four (4) foot long catch basin nozzle with water injection and quick clamp shall be provided. An additional eight (8) inch diameter by four (4) foot aluminum extension with quick clamps shall be provided.					
8.6.19	Push button finger tip hydraulic control on the nozzle handles to raise and lower nozzle to be supplied					
8.6.20	Rear auxiliary engine must have throttle control					
8.6.21	Hopper hose must be heavy duty rubber (Plastic hoses not acceptable)					
8.6.22	In addition to the standard outside dumping controls, in cab controls shall be					

2	1
•	4

8.6.23	Right side (curb side) of hopper shall have inspection door
8.6.24	For easy access to inspection door, an additional step and rear handle mounted on rear bumper and right rear side of hopper to be provided or access doors on each side of hopper
8.6.25	Rear of sweeper must have bumper to protect against underride obstacles and shall be designed as to not allow dumping debris on top of said bumper
8.6.26	Protection to the hopper against corrosion and wear and to facilitate the removal of debris when dumping shall be provided
8.6.27	Bare steels including stainless steels are not acceptable
8.6.28	Protection system shall provide protection such that the hopper will be warranted for life of sweeper. The liner shall be Life Liner or approved equal.
8.7 D	ust Separator:
8.7.1	Dirt separation from the air stream must be accomplished by means of a labyrinth style dust separator installed at air return outlet of the hopper or a circular, cyclonic multi pass.
8.7.2	Separator to be designed as to not allow plugging with regular debris
8.7.3	Dust separator shall have easy access for cleaning of the separator interior and Inspection
8.7.4	Dust separator to have self opening door made of abrasion resistant steel to allow automatic discharge of debris when tilting hopper
8.8 S ₁	oray Water System:
8.8.1	Tank total capacity – 220 gallons
8.8.2	Construction – Rust proof polyethylene
8.8.3	Tank shall be removable type, sharing no common wall with hopper
8.8.4	Tank must not raise during hopper dumping
8.8.5	Fill hose minimum 16 foot 8 inches with NST coupling with strainer must be supplied
8.8.6	Water level gauge will be control console mounted within the cab
8.8.7	Water lines must be color coded
8.8.8	Ball valve in filter inlet shall be provided to prevent water loss while cleaning filter

8.8.9	Filter must be easy to access and clean without tipping hopper
8.8.10	All water piping must be external to operator cab (No lines within cab)
8.8.11	Minimum three (3) spray nozzles at each side broom for dust control to be provided
8.8.12	Spray nozzles shall be mounted on pivoting brackets
8.8.13	Inside the pick up head shall have minimum five (5) easily removable water spray nozzles
8.8.14	Suction hose must have minimum two (2) easily removable spray nozzles
8.8.15	Water flow to pick up head, suction hose, side brooms shall be by <u>two (2)</u> electric 12 volt, diaphragm type pumps or electric roller pump, belt driven cat triplex
8.8.16	Diaphragm type pumps must provide minimum six (6) GPM @ 30 PSI combined, roller style pump with up to 100 psi, or Cat Triplex style pump with up to 55 psi
8.8.17	Each pump must have two (2) flow rates controlled by the operator within cab or controlled with on/off switch and single flow rate
8.8.18	An additional spray bar mounted under the front bumper with cab controls shall be provided for extreme sweeping conditions.
8.8.19	Water spray line to the center broom shall be provided for increased dust suppression.
8.8.20	Quick disconnect for high pressure wash down must be easily accessible on right side of sweeper
8.9 Hy	draulic System:
8.9.1	Hydraulic Pump – gear driven (belt or PTO driven not acceptable)
8.9.2	Hydraulic Pump Output – minimum 7.7 GPM @ 2500 RPM
8.9.3	Reservoir Capacity - minimum 23 gallons
8.9.4	Tank shall have exterior sight gauge
8.9.5	Reservoir should be located within the enclosed auxiliary engine compartment
8.9.6	All hydraulic circuits must have quick disconnect pressure check ports
8.9.7	All high pressure fittings must be "o" ring face seal type or JIC type

8.9.8	All hydraulic filters, air or fluid shall be manufacturers standard
8.9.9	Electric/hydraulic auxiliary pump shall be supplied to raise/lower the hopper, open/close hopper rear door without running auxiliary engine
8.10	Pneumatic System (if required):
8.10.	A PR4 type pressure protector for the chassis air system must be provided to protect system when pressures drop below 85 PSI
8.10.2	2 Sweeper air components shall have separator air tank
8.10.	All pneumatic cylinders shall be rated to 150 PSI and have a separate rod seal and wiper to prevent contamination entering the cylinder
8.10.4	Each cylinder to be controlled by a single, two (2) position, solenoid valve mounted on a manifold with common input and exhaust
8.10.5	A poly carbonate bowl type filter shall be used to filter out contamination of the air System
8.11	Electrical System:
8.11.1	Sweeper electrical system must be separate of the chassis electrical system
8.11.2	Sweeper engine battery – (1) 925 CCA minimum, 12 volt battery or share with truck chassis
8.11.3	Sweeper engine alternator – minimum 95 AMP
8.11.4	Sweeper shall have OSHA approved back up alarm
8.11.5	Sweeper lighting to include rear identification lights, side broom, and rear clearance Lights
8.11.6	Sweeper warning lights shall include hopper up and hopper full load
8.11.7	Sweeper wiring harnesses must be color coded and function stamped every six (6) inches
8.11.8	All electrical circuits shall be protected by manual re-settable circuit breakers
8.11.9	Manufacturers recommended LED arrowboard rear mounted to be provided
8.12	Controls:
8.12.1	All sweeper controls to be mounted on a stationary central console that allows for use from either right or left positions
8.12.2	Controls to include all sweep, spray water, and lighting functions

- 8.12.3 Conventional rocker switches are to be used to control sweep, spray water, and lighting functions
- 8.12.4 Controls for auxiliary engine ignition and throttle, side broom down pressure, and manual reset circuit breakers shall be located in the control console
- 8.13 Instruments:
- 8.13.1 Sweeper engine instruments to include:
- 8.13.1.1 Tachometer 8.13.1.2 Hour meter 8.13.1.3 Oil pressure 8.13.1.4 Fuel 8.13.1.5 Voltage 8.13.1.6 Coolant temperature 8.13.1.7 Air intake restriction indicator 8.13.1.8 Raised hopper indicator 8.13.1.9 Full hopper indicator
- 8.14 Accessories:
- 8.14.1 A 2 1/2 lb. fire extinguisher must be provided
- 8.14.2 A hydrant wrench for fire hydrant to fill water shall be provided
- 8.14.3 A rear mounted flood light with cab control shall be provided
- A sweep resume feature must be provided. It must include automatic pickup of side brooms and pickup head and return to idle when sweep resume control is activated or when truck transmission is put in reverse, and return to previous sweeping positions when transmission is taken out of reverse or sweep resume control is returned to sweeping position.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT NO. 044-1-B

OPEN END CONTRACT TRUCK MOUNTED REGENERATIVE AIR STREET SWEEPER

NOTE TO BIDDER: Procurement Specification No. 044-1-B, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

TOP EASI

	Reference Requisition No.: //O FC 012
	Bidder's Name: Atlantiz Machinery, Inc.
	Address: 2702 Gorfield Ane., Silver Spring, mo 20910
	Telephone Number: 800-423-8903.
	Years Bidder has been registered to do business with the State of West Virginia: YRS
	Years Company has been an authorized dealer for proposed unit: YRS
X3.2	Have you complied with all mandatory specifications? YESNO
X4.2 X4.2.1	DELIVERY: Delivery date of completed representative unit: 45-90 Calendar Days After Receipt of Purchase Agreement
X4,2.2	2 Delivery date of balance of completed units: 45-90 Calendar Days After Receipt of Purchase Agreement

NOTE: Vendors can complete the Bid Schedule at Purchasing's Web Site www.state.wv.us/admin/purchase

X5.0	AWARD CRITERIA;
X5.1	Price for each unit:
X6.0	SPECIFICATIONS - GENERAL
X6.1	Manufacturer, model, series, and date of manufacture of proposed unit:
	Schwarze Model A7000 on a 6mc T7500 chassis
	Is descriptive literature, fully describing proposed unit attached to your bid? YES NO
	If not, why?
X6.2	Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units?
	14 total VYESNO
	Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation
	Report) be provided upon inspection of the pilot unit? YES NO

X6.2 2-10-00

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH.

DESCRIPTION:		1-1/HT/I	MAKE:			
M	ODEL:	YEAR:	PUF	RCHASE AMOUNT	Γ:	
	MAKE:					
	HORSEPOWER:	CYLINDER: _	ENC	GINE SERIAL:		
	COOLING SYSTEM CAPACITY: _	1,				
BELTS:	DESCRIPTION:		PART NUM	BERS:		
GVW:	AXLE CAPAC	ITY:FRONT:			REAR:	
TIRES:	FRONT MAKE & SIZE:	<u></u>				
	REAR MAKE & SIZE:					
DIMENSIO	ONS OF UNIT: LENGTH:		WIDTH:		LENGTH:	
VENDOR (CONTACT PERSON:			PHONE:		
PARTS:						
DATTEDV	'	MODEL .		CCA:		
TOP OR SI	MAKE: IDE POST:	DIMENSIONS	: LENGTH	WIDTH	HEIGHT	
SDARK DI	UGS OR FUEL INJECTORS MAKE: _	5111111111111	PART#			
ELIEL PLIV	AP OR INJECTION PUMP MAKE:		MODEL:			
AITERNA	TOR MAKE:	we's wet "hit'e"	PART #:			
STARTER	MAKE:		PART #:			
TURBOCE	HARGER MAKE:		PART #:			
TRANK M	HARGER MAKE: MODE	₹.:		AUTO/MANUA	L:	
HYDRAUI	LIC PUMP MAKE:		MODEL:			
FILTERS	MAKE PART NO.	LUBR	ICANT	MANUFACTU	JRER TYPE	
OIL		ENGI				
AIR INNEI	R	TRAN	SMISSION			
AIR OUTE	CR	POWE	ER STEERING			
FUEL PRIN	MARY	HYDR	AULIC			
FUEL SEC	ONDARY	DIFFE	RENTIALS			
COOLANT						
HYDRAUI		7007				
OTHER		OTHE				

X6.3	TRAINING:		
	Will training seminar be conducted on Preventive Mair	ntenance, Operator and Mechanic Training YESNO	
	Will you conduct training with each purchase order	r against this open end contract? YESNO	
	Will training be conducted within 2 working days from purchase order?	the delivery of the pilot unit on the individual	l
	If NO, explain time frame		_
	Will an Operator's Manual be furnished directly to delivery of the pilot?	Training Academy prior to the YESNO	
X6.4	If you are the successful vendor, will you furnish all in conducting the training? YES	training aids, i.e., videos, projectors, requir	eď
X6.4.1	Will all manuals, booklets, etc. explaining prevent service schedule be delivered with each unit? If NO, explain	YESNO	d
X6.5	WARRANTY AND SERVICE POLICY		
	Will the warranty and service you provide comply with	all areas as stated in Section 6.5 of specification YESNO	ons
	Is warranty literature attached?	YES NO	
	Is a minimum two (2) year bumper to bumper basic	parts and labor warranty included?	
		parts and labor warranty included? YES NO	
		parts and labor warranty included? YES NO	

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID. (If additional lines are needed, make copies of form.)

1. Define the terms of the standard warranty. If not offered, so state. (Attach copy) 2 year Wallatt, See attached form.						
	year outroof, see control to					
manu	fine warranty service to be performed at DOH facilities and warranty service to be performed at facturer's representative facility. List name and location of manufacturer's representative.					
	- Sahwarze, sweeper. Dealer location: Atlanta Machinery, Inc.					
27	02 Garfield Ave. Silver Spring in 0 20910.					
	t locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if					
None Stock \$250,000.00 atour Sluer Spring, mo office Stop.						
	0.0, 2,000 4,00,000 0,000					
.						
4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that bidder will sell the parts to owner. No discount						
A. B. C.	Terms: Net 30 Manufacturer's published list price less:% discount Terms: Net 60 Manufacturer's published list price less:% discount Terms: Net 90 Manufacturer's published list price less:% discount					
5. During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of Highways? YESNO						
6. During the term of warranty, list the guaranteed rates charged for repair to the unit.						
Α.	Shop Rate \$ 95.00 per mechanic hour					
B.	Travel Time Charge \$ 47.50 per mechanic hour (Specify if one-way); port to port					
C.	Mileage Charge \$_6.00 per vehicle mile (Specify if one-way ; port to port					
D.	Field Mechanic Rate \$ 95.00 per mechanic hour					
E.	Specify period of time that prices are in effect: 60 days					
F	Surcharge for miscellaneous items:					

X6.6	EVALUATION COMMITTEE REQUIREMENTS				
	Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? YESNO				
X6.7	Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry?				
X6.7.1	Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are n to be furnished? YESNO				
X6.7.2	Are all standard safety features that are required by Federal and State statutes of law included? YESNO				
	SPECIFICATIONS OF THE QUOTED UNIT The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.				
	SPECIFICATIONS – CAB AND CHASSIS				
	Manufacturer: 6mc Model: T7500				
X7.1	GVW Plate Rating: 33,000 Lbs.				
X7.2	Cab to Axle dimensions: Distance from centerline of the rear axle to the rear of the sweeper without the wandering hose52 inches				
	Wheelbase: 162 inches				
X7.4	Frame: Does the frame meet or exceed all Federal requirements for GVWR YESNO				
X7.4.1	Frame steel: 120,000 psi				
X7.5	Cab: Maximum visibility, forward line of sight from the chassis front bumper to the point or the ground visible to the operator <u>IO</u> feet for an ASE 98 th percentile size operator				

34 X7.5.1	Is steering full power with dual operator controls	YES	NO
	Does steering have two (2) independent steering columns cons 2 columns with 2 Sectors	nected by a cross YES <u>V</u>	shaft NO
X7.5.2	Does interior of cab have acoustical insulation for low operati trim, and center sweeper console	ing noise, automo	
X7.5.3	Is unit equipped with cruise control feature (fully electronic)	V YES	NO
X7.5.4	Cab door locks, both doors (with key only)	YES _	NO
X7.5.5	Dual sun visors	YES	NO
X7.5.6	Does cab have auxiliary 12v power outlet	YES	NO
X7.5.7	Seats: Dual air ride bostrom cloth covered seats fully adjustable	YES	NO
X7.5.7.1	Seat belts: 3 point lap and shoulder type	YES	NO
X7.5.8	Floor Mats: Rubber floor mats throughout cab area with non-abso	orbent backing und	ler mats NO
X7.5.9	Turn Signals: Manufacturers heavy duty, self cancelling type with	hazard warning s	
X7.5.10	AC, heater, and defroster: Fresh air type, heaviest duty	V YES	NO
X7.5.11	Does cab have full flow through ventilation for optional tempe comfort	erature control a	
X7.5.12	Windshield wipers and washers: 2 speed with washer with interm positions	nittent feature at be	oth driving NO
	Windshield washer reservoir capacity gallon		
X7.5.13	Instruments: Manufacturers gauges both left and right opera programmable warning to inform driver when operating cond		led
X7.5.13.1	Chassis left and right side operator instrument panel chassilluminated with tachometer, speedometer, odometer, trip temperature gauge, air pressure gauge, volt gauge, oil prestemperature gauges	odometer, fuel ga	auge, water
X7.5.13.2	Does engine instruments include warning light and chime to coolant temperature, low oil pressure and low air pressure potential problem before any damage to the engine occurs	to warn the oper	rator of a
X7.5.13.2.1	Does console have left/right primary drivers switch	\bigvee_{YES}	NO

recommended range during continuous operation

X7.7.1

Cooling system is capable of maintaining engine temperature within the manufacturer's

V YES NO

36 X7.7.2	Radiator fan is viscous drive type $ u$	YESNO
X7.7.3	The system is filled with	antifreeze YESNO
X7.8	Fuel Tanks:	
X7.8.1	Capacity: One (1) 50 gallon fuel tank shared by both engines and eraising or shifting any components	easily accessible without YESNO
	Inside cab fuel gauge supplied $\underline{\hspace{0.5cm}}^{\hspace{0.5cm} \hspace{0.5cm} \hspace{0.5cm}}$	YESNO
X7.9	Electrical System:	
X7.9.1	Type: 12 volt negative ground system with manufacturer's radio interf	ference suppression YESNO
X7.9.2	Batteries:	
X7.9.2.1	Are in an enclosed accessible environment for ease of service	YES NO
X7.9.2.2	Cold Crank Amps: 1300 AMPS	
X7.9.3	Alternator Capacity: 135 AMPS brushless with internal regulator	YESNO
X7.9.4	Lighting: Does it conform to the West Virginia Motor Vehicle Cod	
X7.10	Transmission: Allison 2500 ROS 5 speed with overday	riveYESNO
X7.11	Rear Axle: Is it two (2) 8 speed with ratios of 5.29 to 5.86/7.21 to 8.17: and transport speeds	1 for proper sweeping YESNO
X7.11.1	Rated Capacity: 21000 Lbs.	
X7.11.2	Rear Spring Capacity: 23000 Lbs. with multi leaf auxiliary spring	gs_V_YESNO
X7.11.3	Rear axle differential, transmission, and front wheel lubrication re synthetic type lubrication and provided with magnetic drain plugs	servoirs are filled with ` where applicable YESNO
X7.11.4	Is unit equipped with manufacturers heavy duty rear shock absorbers	YESNO
X7.12	Front Axle:	
X7.12.1	Capacity: 12000 lbs. I beam type	
X7.12.2	Front spring capacity: 12000 lbs.	
X7.12.3	Manufacturers heavy duty shock absorbers/and stabilizer bar	

X7.13	Brakes:	·	· · · · · 3
X7.13.1	Type: Are they full air with manufacturers ABS through a 4 c system in compliance with the most current FMVSS requirements.	hannel full vehicle whe	eel control_NO
X7.13.2	Compressor: 12.9 CFM		
X7.13.3	Parking brake: Spring set, air release actuating rear axle service	ce brakes YES _	NO
	Instrument panel control	YES	_NO
X7.13.4	Air dryer with heater: Bendiy AD-IS		
X7.13.5	Manufacturers standard air tanks for service brakes; auxiliary	tank for parking brake YES	_NO
X7.13.6	Low air pressure warning light and buzzer	YES	NO
X7.13.7	Do brakes meet or exceed all current Federal and State FN	IVSS requirements YES	_NO
X7.13.8	Brake dust covers installed on all wheels	YES	NO
X7.14	Tires and wheels for safety and allows emergency interchange rear (tires/rims) are interchangeable	YES	ont and NO
X7.14.1	Wheel, front and rear: (R22.5) 10 hole hub piloted steel disc type to accommodate specified ti	re size YES	_NO
X7.14.2	Tires:		
X7.14.2.1	Front and Rear: 11R22.5G; 14 ply	YES	NO
	Does the rear axle have dual tires for load capacity	YES	NO
X7.15	Other features considered as manufacturers standard equipme	ent but not addressed:	
			-
X7.16	Paint: Manufacturers standard	YES	NO
X7.16.1	Will you furnish the Department a larger paint sample after awa	ard of contract if neede	d NO
X7.16.2	If required, will you measure adhesion by the criteria set forth i		ethod B NO

38 X7.17	Does unit meet or exceed the "Occupational Safety and Health A amendments	Act of 1970" and su YES YES	bsequent _NO
X7.18	Does the unit meet the advertising guidelines	V YES	_NO
X7.19	Preventive Maintenance and Operator's Training School:		
X7.19.1	Will manufacturer and/or dealer stage a thorough seminar o Operator Training	on Preventive Main YES	tenace and _NO
X7.19.2	Will operating and service manuals, booklets and pamphlets exp	laining procedures b	e supplied _NO
X7.19.3	If you are successful vendor, will you conduct training of the	completed unit YES	_NO
	Have you attached a copy of the proposed program with you	r bidYES	NO
X8.0	SPECIFICATIONS OF SWEEPER MODULE		
	Does New Regenerative Air Street Sweeper have a 6 wheeled, truck engines, sweeper controls and switches, 8.0 cubic yard hopper, autor water tank, left and right side broom with variable down pressure communications. Manufacturer: Shuare Model: AFOC	matic transmission, 2	220 gallon
X8.1	Water Tank:		
X8.1.1	Tank capacity $\frac{250}{}$ gallon of water		
X8.2	Sweeper Engine:		
X8.2.1	Diesel – Is it a Tier 3 Emission compliant, 4 cylinder turboch	arged, 276 CID YES	_NO
	Manufacturer and Model: John Deene 4045T		
X8.2.2	Horsepower: 115 HP @ 2400 RPM ; torque 291 lb f	rt @ <u>[400</u> RPM	
X8.2.3	Is engine wet sleeved	YES	_NO
X8.2.4	Does unit have element dry type air cleaner with restriction i	ndicator YES	_ no
X8.2.5	Engine coolant is Environmental		ith a
	protection to -30°F	YES NO	

40 X8.4.8	In cab electric operated pressure relief valve/vacuum enhance leaf and light debris sweeping supplied on pressure side	er/leaf bleeder for optimumNO
X8.4.9	Is front and rear debris curtain removable without removing	the pick up head from unit YES NO
X8.4.10	Sweeping Path:	
X8.4.10.1	Pick up head only <u>90</u> inches	
X8.4.10.2	One (1) side broom and pick up head inches	
X8.4.10.3	Two (2) side broom and pick up head 144 inches	
X8.4.11	Is pick up head equipped with side mounted adjustable steel Width: inches	runners with carbide insertsNO
X8.4.12	Is raise and lower of pick up head done hydraulically by a roinside the cab Is a center broom in the rear or front of pick up head supplies	cker switch on control panel YESNO
X8.4.13	Is a center broom in the rear or front of pick up head supplie	edYES V_NO
	And controlled by rocker switch in cab	$\underline{\hspace{1cm}}$ YES $\underline{\hspace{1cm}}$ NO
X8.4.13.1	Is center broom hydraulic driven	YES V NO
X8.4.13.2	Is center broom hydraulic driven Center broom inches long Center broom inches in diameter Good o	600, scrab m
X8.4.13.3	Center broom inches in diameter / front o	& Vacuum head.
X8.5 Sie	de Brooms:	
X8.5.1	Right and left broom are of a free floating trailing arm design prevent damage when sweeping and encountering fixed obsta	clesNO
X8.5.2	Training arm is of parallelogram design	NO
X8.5.3	Diameter of brooms 44 inches	
X8.5.4	Are brooms hydraulically driven	V YES NO
X8.5.5	Are brooms pneumatically or hydraulically ½ raised, lo	owered, and suspendedNO
X8.5.6	Is broom down pressure pneumatically controlled from the c automatic by load and speed sensing hydraulics	ab by operator or
X8.5.7	Broom hydraulic motor drive 13 in/lbs. of torque	

		,
X8.5.8	Side brooms have greaseless pivot pins and/or grease zero	YESNO 41
X8.5.9	Does transport hook hold side broom assemblies in storage in system	position or hydraulic lock
X8.5.10	Are rocker switches in cab used to control side broom	YES NO
X8.5.11	Is side broom retraction while sweeping to provide scrubbin operator seat	g action controlled from the YESNO
X8.5.12	Does right broom tilt inward and outward from cab while swelectrically controlled linear actuator	weeping by means of NO
X8.6	Hopper:	
X8.6.1	Volumetric capacity 8.4 cubic yards	
X8.6.2	Construction: 10 gauge steel sides, 316 inch floor	
X8.6.3	Is weight actuated full load indicator mounted in the cab on	<i>-</i>
X8.6.4	Dump angle <u>53</u> °	YES NO
X8.6.5	Dump angle achieved by use of 2 stage telescopic cylinder or	dual hydraulic cylindersYESNO
X8.6.6	Floor angle 3 °	_v_ iesNo
X8.6.7	Abrasion resistant "scoop" style steel deflector located at the to the center of hopper	suction inlet to direct materialNO
X8.6.8	Hopper rear door hinged at the top of the door and opened b	y hydraulic cylinder _ V YES NO
X8.6.9	Hopper rear door opening 70 angle	
X8.6.10	Right hand side (passenger side) of hopper has hydraulic valuely cylinder movement	ve levers to operate hydraulicNO
X8.6.11	cylinder movement Hopper rear door has internal door prop	YESNO
X8.6.12	Hopper rear door has automatic lock mechanism for tight fit	
X8.6.13	Hopper rear door seal is water resistant reinforced	V YES NO
X8.6.14	Are hopper screens hinged for easily cleaning and inspection	NO
Y8 6 15	Total honner sargen area 91 6 square inches	

42			,
X8.6.16	Hopper screen material 10 gauge steel		
X8.6.17	sinch inside diameter by 10 foot long hydraulic was unit for cleaning catch basins is provided	andering hose locat	ted at rear of NO
X8.6.18	An $\frac{4}{2}$ inch diameter by $\frac{4}{2}$ foot long catch basin no quick clamp is provided	zzle with water inj	ection and NO
	An additional 8 inch diameter by 4 foot aluminu is provided	m extension with o	uick clamps NO
X8.6.19	Is a push button finger tip hydraulic control on the nozzle handle provided	es to raise and lowe	r nozzle NO
X8.6.20	Does rear auxiliary engine have throttle control		
X8.6.21	Is hopper hose heavy duty rubber	V YES	NO
X8.6.22	In addition to standard outside dumping controls, are in-cab	YES	NO
X8.6.23	Does right side (curb side) of hopper have inspection door	YES _	NO
X8.6.24	For easy access to inspection door, is an additional step and rear and right rear side of hopper provided or access doors on each si	handle mounted on	rear bumper
X8.6.25	Does rear of sweeper have bumper to protect against underr to not allow dumping debris on top of said bumper	ride obstacles and o	lesigned as NO
X8.6.26	Is there protection to the hopper against corrosion and wear of debris when dumping provided	and to facilitate the	ne removal` NO
X8.6.27	Have you used any bare steels including stainless steels	YES _ \(\bullet	_NO
X8.6.28	Does protection system provide protection such that the hop of sweeper Manufacturer of liner: Rhino Linings fer aff	per will be warran	ted for life NO
	Manufacturer of liner: KWNO LMINGS FOR WITH	acred 1-87	
X8.7	Dust Separator:		
X8.7.1	Is dirt separation from the air stream accomplished by mean separator installed at air return outlet of the hopper or a circ		lti pass
X8.7.2	Is separator designed as to not allow plugging with regular debri	. /	 NO

X8.7.3	Does dust separator have easy access for cleaning of the separ	ator in	nterior and YES	
X8.7.4	Does dust separator have self opening door made of abrasion resis discharge of debris when tilting hopper		eel to allov YES	
X8.8	Spray Water System:			
X8.8.1	Tank total capacity 250 gallons			
X8.8.2	Construction: POLY			
X8.8.3	Is tank removable type, sharing no common wall with hopper	レ	YES_	NO
X8.8.4	Does tank not raise during hopper dumping	_レ	YES	NO
X8.8.5	Fill hose 2/2" +20' with NST coupling with strainer		oplied YES	NO
X8.8.6	Is water level gauge control console mounted within the cab	V	YES	_NO
X8.8.7	Are water lines color coded	V	YES	NO
X8.8.8	Is ball valve in filter inlet provided to prevent water loss while	cleani	ng filter YES	_ NO
X8.8.9	Is filter easy to access and clean without tipping hopper		YES	
X8.8.10	Is all water piping external to operator cab	,	YES	_NO
X8.8.11	3 spray nozzles at each side broom for dust control provid	ded_\	YES	NO
X8.8.12	Are spray nozzles mounted on pivoting brackets	<u> </u>	YES	_NO
X8.8.13	Inside the pick up head has <u>5</u> easily removable water spray	nozzl	es YES	NO
X8.8.14	Suction hose has easily removable spray nozzles			
X8.8.15	Is water flow to pick up head, suction hose, side brooms by twp diaphragm type pumps or electric roller pump, belt driven cat t	riplex	_	
X8.8.16	Diaphragm type pumps provide 4.5 GPM @ 45 PSI comb roller style Pump with up to psi YES NO	ined	YESYES	_NO NO,

X8.8.17	Does each pump have two (2) flow rates controlled by the operator within cabYESNO
	OR Controlled with on/off switch and single flow rate YESNO
X8.8.18	Is an additional spray bar mounted under the front bumper with cab controls provided for extreme sweeping conditions YES NO
X8.8.19	Is water spray line to the center broom provided for increased dust suppression YESNO
X8.8.20	Is quick disconnect for high pressure wash down easily accessible on right side of sweeper See adder dum 5 NO
X8.9	Hydraulic System:
X8.9.1	Hydraulic pump – gear driven YESNO
X8.9.2	Hydraulic pump output 13 GPM @ 200 GRPM
X8.9.3	Reservoir capacity: 25 gallons
X8.9.4	Does tank have exterior sight gauge
X8.9.5	Is reservoir located within the enclosed auxiliary engine compartmentYESNO
X8.9.6	Do all hydraulic circuits have quick disconnect pressure check portsYESNO
X8.9.7	Are all high pressure fittings "o" ring face seal type or JIC typeYESNO
X8.9.8	Are all hydraulic filters, air or fluid manufacturers standard YESNO
X8.9.9	Electric/hydraulic auxiliary pump supplied to raise/lower the hopper, open/close hopper rear door without running auxiliary engine YES NO
X8.10	Pneumatic System: Is it required YES NO
X8.10.1	Is a PR4 type pressure protector for the chassis air system provided to protect system when pressures drop below 85 PSIYESNO
X8.10.2	Do sweeper air components have separator air tank YESNO
X8.10.3	Are all pneumatic cylinders rated to 150 psi and have a separate rod seal and wiper to prevent contamination entering the cylinderYESNO

X8.10.4	Is each cylinder controlled by a single, two (2) position, solenoid valve mounted on a manifold with common input and exhaustYESNO
X8.10.5	Is a poly carbonate bowl type filter used to filter out contamination of the air systemYESNO
X8.11	Electrical System:
X8.11.1	Is sweeper electrical system separate of the chassis electrical systemNO
X8.11.2	Sweeper engine battery: number CCA 12 volt battery YES NO
X8.11.3	Sweeper engine alternator 100 amp
X8.11.4	Does sweeper have OSHA approved back up alarm
X8.11.5	Does sweeper lighting include rear identification lights, side broom, and rear clearance lights
X8.11.6	Do sweeper warning lights include hopper up and hopper full load $\sqrt{ ext{YES}_{NO}}$
X8.11.7	Is sweeper wiring harnesses color coded and function stamped every six (6) inches YESNO
X8.11.8	Are all electrical circuits protected by manual re-settable circuit breakersYESNO
X8.11.9	Manufacturers recommended LED arrowboard rear mounted is provided YES NO
X8.12	Controls:
X8.12.1	All sweeper controls are mounted on a stationary central console that allows for use from either right or left positions YESNO
X8.12.2	Controls include all sweep, spray water, and lighting functions YESNO
X8.12.3	Are conventional rocker switches used to control sweep, spray water, and lighting functions YES NO
X8.12.4	Are controls for auxiliary engine ignition and throttle, side broom down pressure, and manual reset circuit breakers located in the control console

X8.13	Instruments:	
X8.13.1	Sweeper engine instruments:	
X8.13.1.1	Tachometer	YESNO
X8.13.1.2	Hourmeter	NO
X8.13.1.3	Oil pressure	
X8.13.1.4	Fuel	YES NO
X8.13.1.5	Voltage	YES NO
X8.13.1.6	Coolant temperature	YESNO
X8.13.1.7	Air intake restriction indicator	YESNO
X8.13.1.8	Raised hopper indicator	YES NO
X8.13.1.9	Full hopper indicator	YESNO
X8.14	Accessories:	
X8.14.1	A 2 1/2 lb. fire extinguisher is pro	videdNO
X8.14.2	A hydrant wrench for fire hydran	nt to fill water is provided YESNO
X8.14.3	A rear mounted flood light with c	ab control is provided YES NO
X8.14.4	A sweep resume feature is provide	edNO
	sweep resume control is activated	of side brooms and pickup head and return to idle when or when truck transmission is put in reverse, and return ten transmission is taken out of reverse or sweep resume osition YES NO

708FC012

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING: Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY: The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/ purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia (acknowledges the information in this said affidavit and are	in compliance with the	hereby certified that the	vendo
Vendor's Name: Athata Machiney Pr			,
Authorized Signature:	Date:	5/27/09	

Purchasing Affidavit (Revised 06/15/07)



State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

708EC012

ADDRESS CORRESPONDENCE TO ATTENTION OF

304-558-2402

MICHAEL AUSTIN

800-423-8903 *712113101 ATLANTIC MACHINERY INC 2702 GARFIELD AVENUE

SILVER SPRING MD 20910

DIVISION OF HIGHWAYS EQUIPMENT DIVISION ROUTE 33 BRUSHY FORK ROAD BUCKHANNON, WV 26201 304-472-1750

DATE PRINTED TERMS OF SALE SHIP VIA FO.B. FREIGHT TERMS 05/19/2008 BID OPENING DATE: 05/28/2008 BID OPENING TIME 01:30PM LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT NO. ADDENDUM NO. 3 CHANGES TO THE SPECIFICATIONS PER THE ATTACHED. BID OPENING DATE REMAINS 05/28/08 AT 1:30 P.M. NO OTHER CHANGES. \$ 176, 937.00 \$ 176, 937.00 0001 EΑ 765-77 1 AIR STREET SWEEPER IS THE END OF REQ 708Ed012 ***** TOTAL: THIS SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE ADDRESS CHANGES TO BE NOTED ABOVE

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- Awards will be made in the best interest of the State of West Virginia.
- The State may accept or reject in part, or in whole, any bid.
- 3. All quotations are governed by the West Virginia Code and the Legislative Rules of the Purchasing Division.
- 4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
- 5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
- 6. Payment may only be made after the delivery and acceptance of goods or services.
- 7. Interest may be paid for late payment in accordance with the West Virginia Code.
- 8. Vendor preference will be granted upon written request in accordance with the West Virginia Code.
- 9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
- 11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
- 12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
- **13. BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
- 14. HIPAA Business Associate Addendum The West Viginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division.
- 2. SPECIFICATIONS: Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Complete all sections of the quotation form.
- Unit prices shall prevail in cases of discrepancy.
- 5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
- 6. BID SUBMISSION: All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

SIGNED BID TO:

Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

TRUCK MOUNTED REGENERATIVE AIR STREET SWEEPER

708EC012 ADDENDUM #3

(AFTER DISCUSSION WITH MANAGEMENT ON THE ISSUES OF CONCERN OF ALL FOUR (4) VENDORS PRESENT AT THE PREBID MEETING, ATTACHED IS THE ADDENDUM)

CHANGES TO SPECIFICATIONS:

LEAVE AS WRITTEN:

4.0 REPRESENTATIVE UNIT FOR TEST

FROM:

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS (LAST PARAGRAPH - LAST SENTENCE ONLY)

CD ROM is preferred in lieu of parts or service manuals

TO:

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS (LAST PARAGRAPH – LAST SENTENCE ONLY)

CD ROM for truck and sweeper is preferred in lieu of parts or service manuals

LEAVE AS WRITTEN:

6.5 WARRANTY AND SERVICE POLICY

FROM:

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

SPECIFICATIONS - CAB AND CHASSIS

TO:

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

SPECIFICATIONS – CAB AND CHASSIS (CAB OVER TRUCK DESIGN IS PREFERRED)

7.2 Cab to Axle dimensions: The distance from centerline of the rear axle to the rear of the sweeper without the wandering hose shall not exceed 52 inches.

LEAVE AS WRITTEN:

7.4.1 Frame steel: 80,000 PSI minimum

LEAVE AS WRITTEN:

7.5 Cab: Maximum visibility, forward line of sight from the chassis front bumper to the point on the ground visible to the operator shall not exceed 14 feet for an ASE 98th percentile size operator.

LEAVE AS WRITTEN:

7.5.18 Front mudflaps to be manufacturers standard for unit bid.

FROM:

7.6 ENGINE:

TO:

7.6 ENGINE:

(FUTURE ENGINE EMISSION REQUIREMENTS CAN BE CHANGED WITH JUSTIFICATION)

LEAVE AS WRITTEN:

7.6.1 Diesel Engine: Shall be 175 HP minimum @ approximately 2200 RPM

LEAVE AS WRITTEN:

7.10 Transmission: Allison Series 2500 (or equal) 5-speed with overdrive

FROM:

7.11 Rear Axle: Shall be two (2) 8 speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds

TO:

7.11 Rear Axle: Shall be two (2) speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds

7.11.4 Unit to be equipped with manufacturers heavy duty shock absorbers (if required).

LEAVE AS WRITTEN:

7.12.1 Capacity: 12,000 lbs. minimum I-beam type

LEAVE AS WRITTEN:

7.12.2 Front Spring Capacity: 12,000 lbs.

ADD:

7.20 Truck shall have temporary license and inspection sticker.

LEAVE AS WRITTEN:

8.0 SPECIFICATIONS OF SWEEPER MODULE

New Regenerative Air Street Sweeper having a 6-wheeled, truck chassis with dual diesel engines, sweeper controls and switches, 8.0 cubic yard hopper, automatic transmission, 220 gallon water tank, left and right side broom with variable down pressure controlled from the cab.

LEAVE AS WRITTEN:

8.2.2 Horsepower: Minimum 115 HP @ 2500 RPM, minimum torque 291 lb. ft. @ 1400 RPM

FROM:

8.2.6 Sweeper engine shall drive the blower fan by a heavy duty five (5) "V" groove power belt

TO:

8.2.6 Sweeper engine shall drive the blower fan by a heavy duty five (5) "V" groove power belt or by gear box drive

LEAVE AS WRITTEN:

8.2.7 Sweeper engine shall be in an enclosure for sound attenuation, enclosure to include doors for access to serviceable items or tilt hopper.

8.3.3 Blower shall be of the closed or open face turbine type, minimum nine (9) vanes, 31 3/8 inch diameter

LEAVE AS WRITTEN:

8.3.4 Blower to be constructed of abrasion resistant steel.

LEAVE AS WRITTEN:

8.3.5 Blower housing to be constructed of 10 gauge steel and lined with Linafex or 3/8 inch corded rubber shall not be part of the hopper

LEAVE AS WRITTEN:

8.3.6 Blower housing shall have an inspection door (air exhaust opening).

LEAVE AS WRITTEN:

8.3.7 Blower to be mounted and supported on both sides by heavy duty greasable bearing.

LEAVE AS WRITTEN:

8.3.8 Bearings shall be greasable from ground level, without tilting the hopper.

FROM:

8.4.4 Minimum 30 inches high

TO:

8.4.4 Minimum 30 inches front to back

LEAVE AS WRITTEN:

8.4.8 In cab electric operated pressure relief valve/vacuum enhancer/leaf bleeder for optimum leaf and light debris sweeping, shall be supplied on pressure side.

FROM:

8.4.13 A center broom in the rear or front of the pick up head shall be supplied, to be controlled by rocker switch in cab

TO:

8.4.13 A center broom in the rear or front of the pick up head shall be supplied, to be controlled by rocker switch in cab unless gutter brooms move in from both sides to sweep directly in front of regan head.

FROM:

8.5.1 Right and left shall be a free floating trailing arm design with inward motion safety to prevent damage when sweeping and encountering fixed obstacles

TO:

8.5.1 Right and left shall be a free floating trailing arm design for free floating forward facing digger style design to prevent damage when sweeping and encountering fixed obstacles

FROM:

8.5.9 Transport hook shall hold side broom assemblies in storage position or hydraulic lock in system

TO:

8.5.9 Transport hook shall hold side broom assemblies in storage position or hydraulic lock in system or pneumatic lock system

FROM:

8.5.12 Right side broom shall tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator

TO:

8.5.12 Right side broom shall tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator or by means of a hydraulic cylinder

LEAVE AS WRITTEN:

8.6.4 Dump angle minimum 50°

LEAVE AS WRITTEN:

8.6.5 Dump angle shall be achieved by use of 2 stage telescopic cylinder or dual hydraulic cylinders

8.6.7 Abrasion resistant "scoop" style steel deflector shall be located at the suction inlet to direct material to the center of hopper.

LEAVE AS WRITTEN:

8.6.9 Hopper rear door opening minimum 90° angle

FROM:

8.6.10 Right hand side (passenger side) of hopper shall have hydraulic valve levers to operate hydraulic cylinder movement

TO:

8.6.10 Right hand side (passenger side) or left hand side of hopper shall have hydraulic valve levers or switches to operate hydraulic cylinder movement

FROM:

8.6.11 Hopper rear door must have internal door prop

TO:

8.6.11 Hopper rear door must have internal or external door prop

LEAVE AS WRITTEN:

8.6.18 An eight (8) inch diameter by four (4) foot long catch basin nozzle with water injection and quick clamp shall be provided. An additional eight (8) inch diameter by four (4) foot aluminum extension with quick clamps shall be provided.

FROM:

8.6.19 Push button finger tip hydraulic control on the nozzle handles to raise and lower nozzle to be supplied

TO:

8.6.19 Push button finger tip hydraulic or pneumatic control on the nozzle handles to raise and lower nozzle to be supplied

FROM:

8.6.21 Hopper hose must be heavy duty rubber (Plastic hoses not acceptable)

TO:

8.6.21 Hopper hose must be woven heavy duty rubber minimum .375 inches thick (<u>Plastic hoses not acceptable</u>)



LEAVE AS WRITTEN:

8.6.23 Right side (curb side) of hopper shall have inspection door

LEAVE AS WRITTEN:

8.6.25 Rear of sweeper must have bumper to protect against underride obstacles and shall be designed as to not allow dumping debris on top of said bumper.

LEAVE AS WRITTEN:

8.6.27 Bare steels including stainless steels are not acceptable

FROM:

8.6.28 Protection system shall provide protection such that the hopper will be warranted for life of sweeper. The liner shall be Life Liner or approved equal.

TO:

8.6.28 Protection system shall provide protection such that the hopper will be warranted for life of sweeper. The liner shall be Life Liner or Rhino Hard Liner with written lifetime warranty or approved equal.

LEAVE AS WRITTEN:

8.7.4 Dust separator to have self opening door made of abrasion resistant steel to allow automatic discharge of debris when tilting hopper.

LEAVE AS WRITTEN:

8.8.7 Water lines must be color coded

LEAVE AS WRITTEN:

8.8.11 Minimum three (3) spray nozzles at each side broom for dust control to be provided.



8.8.13 Inside the pick up head shall have minimum five (5) easily removable water spray nozzles.

LEAVE AS WRITTEN:

8.8.14 Suction hose must have minimum two (2) easily removable spray nozzles

FROM:

8.8.15 Water flow to pick up head, suction hose, side brooms shall be by two (2) electric 12 volt, diaphragm type pumps or electric roller pump, belt driven cat triplex.

TO:

8.8.15 Diaphragm or roller style pump must be provided for standard dust suppression.

DELETE:

8.8.16 Diaphragm type pumps must provide minimum six (6) GPM @ 30 PSI combined, roller style pump with up to 100 psi, or Cat Triplex style pump with up to 55 psi

LEAVE AS WRITTEN:

8.8.18 An additional spray bar mounted under the front bumper with cab controls shall be provided for extreme sweeping conditions.

LEAVE AS WRITTEN:

8.8.19 Water spray line to the center broom shall be provided for increased dust suppression.

DELETE:

8.8.20 Quick disconnect for high pressure wash down must be easily accessible on right side of sweeper

LEAVE AS WRITTEN:

8.9.5 Reservoir should be located within the enclosed auxiliary engine compartment.

FROM:

8.10.2 Sweeper air components shall have separator air tank

TO:

8.10.2 Sweeper air components shall have separator air tank (if needed)

LEAVE AS WRITTEN:

8.11.7 Sweeper wiring harnesses must be color coded and function stamped every six (6) inches

LEAVE AS WRITTEN:

8.11.9 Manufacturers recommended LED arrowboard rear mounted to be provided

LEAVE AS WRITTEN:

8.12.4 Controls for auxiliary engine ignition and throttle, side broom down pressure, and manual reset circuit breakers shall be located in the control console.

FROM:

8.14.4 A sweep resume feature must be provided. It must include automatic pickup of side brooms and pickup head and return to idle when sweep resume control is activated or when truck transmission is put in reverse, and return to previous sweeping positions when transmission is taken out of reverse or sweep resume control is returned to sweeping position.

TO:

8.14.4 A sweep resume feature must be provided. It must include automatic pickup of side brooms and pickup head and return to idle when sweep resume control is activated or when truck transmission is put in reverse, and return to previous sweeping positions when transmission is taken out of reverse or sweep resume control is returned to sweeping position or sweeps in reverse vacuum head with automatic pick up of side brooms when truck is placed in reverse.

ADD:

8.14.5 Mounted tool box for tool storage a minimum 16 inches wide x 8 inches tall x 16 inches deep, lockable tool box, mounted curb side for safety.

TRUCK MOUNTED REGENERATIVE AIR STREET SWEEPER

708EC012 ADDENDUM #3

(AFTER DISCUSSION WITH MANAGEMENT ON THE ISSUES OF CONCERN OF ALL FOUR (4) VENDORS PRESENT AT THE PREBID MEETING, ATTACHED IS THE ADDENDUM)

ADDI	ENDUM)				
CHAN	NGES TO BIDDER'S EVALUATION REPORT:				
ADD:					
X4.0	REPRESENTATIVE UNIT FOR TEST				
	Will you provide one (1) completed representative unit to be each order to insure compliance with specification Factory demonstrator unit of	e obse	rved and e YES	evaluated on NO Chass's.	
ADD:					
X6.2	OPERATING AND SERVICE MANUALS AND PARTS (LAST PARAGRAPH – LAST SENTENCE ONLY)	LISTS	;		
	Will a CD Rom for truck and sweeper be furnished in lieu o		s or service YES		
LEAVI	E AS WRITTEN:				
X6.5	WARRANTY AND SERVICE POLICY				
	Will the warranty and service you provide comply with all a of specifications	ireas a	s stated in YES	Section 6.5 NO	
	Is warranty literature attached?	<u>//</u>	YES	_NO	
	Is a minimum two (2) year bumper to bumper basic part included?		YES	NO	
	Describe: Standard truch chassis warrant	y a	polies.	Schwarze	2
	Describe: Standard truch chassis worrant unit, see attached sheet.				_

FROM X7.0									
	SPECIFICATIONS – CAB AND CHASSIS								
	Manufacturer: 6 MC Model: T7500								
TO: X7.0	SPECIFICATIONS OF THE QUOTED UNIT The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.								
	SPECIFICATIONS - CAB AND CHASSIS								
	Manufacturer: 6 MC Model: T7500								
-	Is it the cab over truck design YES NO								
	LEAVE AS WRITTEN: X7.2 Cab to Axle Dimensions: Distance from centerline of the rear axle to the rear of the sweeper without the wander hose inches								
LEAVE AS WRITTEN: X7.4.1 Frame steel: 120,000 psi									
LEAV X7.5	Cab: Maximum visibility, forward line of sight from the chassis front bumper to the								
	point on the ground visible to the operator 10 feet for an ASE 98th percentile								

Emc does not have a published Statement. "Not every driver is the same height."

size operator

	**E AS WRITTEN: 18 Front mudflaps are manufacturers standard for unit bid YES NO
FROM X7.6	M: Engine:
TO: X7.6	Engine: Will you supply justification for changes to future engine emission requirements YESNO
<i>LEAV</i> X7.6.1	TE AS WRITTEN: Diesel engine: 215 HP @ 2200 RPM
<i>LEAVI</i> X7.10	EAS WRITTEN: Transmission: Aliso 2500 ROS 5 speed with overdrive YES NO
FROM X7.11	Rear Axle: Is it two (2) 8 speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds YES NO
TO: X7.11	Rear Axle: Is it two (2) speed with ratios of 5.29 to 5.86/7.21 to 8.17:1 for proper sweeping and transport speeds YESNO
	E AS WRITTEN:
A/.11.	Is unit equipped with manufacturers heavy duty rear shock absorbers YES NO Are they required YES NO
	E AS WRITTEN: 1 Capacity: 12,000 lbs. I beam type
LEAVE	CAS WRITTEN:
X7 12 1	Front spring canacity: 12 000 lbs

X7.20 V	Will you furnish temporary license and inspection sticker
LEAVE .	AS WRITTEN:
X8:0	SPECIFICATIONS OF SWEEPER MODULE
	Does New Regenerative Air Street Sweeper have a 6 wheeled, truck chassis with dual diesel engines, sweeper controls and switches, 8.0 cubic yard hopper, automatic transmission, 220 gallon water tank, left and right side broom with variable down pressure controlled from cab YES NO
	Manufacturer: Schwalze Model: A7000
LEAVE X8.2.2	AS WRITTEN: Horsepower: 115 HP @ 2500 RPM; torque 291 lb. ft @ 1400 RPM
FROM: X8.2.6	Does the sweeper engine drive the blower fan by a heavy duty five (5) "V" groove power belt NO
TO:	
X8.2.6	Does the sweeper engine drive the blower fan by a heavy duty five (5) "V" groove power belt YES NO or by gearbox drive YES NO
LEAVE . X8.2.7	AS WRITTEN: Is sweeper engine in an enclosure for sound attenuation, enclosure to include doors for access to serviceable items or tilt hopper
LEAVE . X8.3.3	AS WRITTEN: Is blower of the closed \(\) or open face turbine type \(\) YES NO
	Number of vanes 10 diameter 323/4"
LEAVE A	IS WRITTEN:
X8.3.4	Blower constructed of abrasion resistant steel YES NO

LEAVE A	IS WRITTEN:
X8.3.5	Blower housing constructed of 10 gauge steel and lined with Linafex or 3/8 inch corded rubber YES NO
	Is part of the hopperYESNO
LEAVE A X8.3.6	S WRITTEN: Does blower housing have an inspection door (air exhaust opening) YESNO
LEAVE A X8.3.7	S WRITTEN: Is blower mounted and supported on both sides by heavy duty greasable bearing YES NO
LEAVE A X8.3.8	S WRITTEN: Are bearings greasable from ground level without tilting the hopper YESNO
FROM: X8.4.4	High: 109 inches
TO: X8.4.4	Front to back: 265 inches
LEAVE A. X8.4.8	S WRITTEN: In cab electric operated pressure relief valve/vacuum enhancer/leaf bleeder for optimum leaf and light debris sweeping supplied on pressure sideYESN0

FROM: X8.4.13									
	-	YES V NO							
	And controlled by rocker switch in cab	YES NO							
TO: X8.4.13	And controlled by rocker switch in cab Gather by Is a center broom in the rear or front of pick up he	GEO quoted override, ad suppliedYESNO							
	And controlled by rocker switch in cab	YES V NO							
	Unless gutter brooms move in from both sides to swee head	ep directly in front of regan YESNO							
FROM: X8.5.1	Right and left broom are of a free floating trailing a motion safety to prevent damage when sweeping an obstacles								
TO: X8.5.1	Right and left broom are of a free floating trailing a forward facing digger style design to prevent dama encountering fixed obstacles								
FROM: X8.5.9	Does transport hook hold side broom assemblies in hydraulic lock in system	storage position or							
TO: X8.5.9	Does transport hook hold side broom assemblies in Hydraulic lock in system or pneumatic lock sys	storage position or tem							

FROM: X8.5.12	Does right broom tilt inward and outward from cab while sweeping by means of electrically controlled linear actuatorYESNO
TO: X8.5.12	Does right broom tilt inward and outward from cab while sweeping by means of electrically controlled linear actuator YES NO or by means of a hydraulic cylinder YES NO
LEAVE A	4S WRITTEN: Dump angle 56 °
	AS WRITTEN: Dump angle achieved by use of 2 stage telescopic cylinder or dual hydraulic cylinders YES NO
<i>LEAVE 2</i> X8.6.7	AS WRITTEN: Abrasion resistant "scoop" style steel deflector located at the suction inlet to direct material to the center of hopper YES NO
LEAVE A	AS WRITTEN: Hopper rear door opening 90 oangle
FROM: X8.6.10	Right hand side (passenger side) of hopper has hydraulic valve levers to operate hydraulic cylinder movementYESNO
TO: X8.6.10	Right hand side (passenger side) YES NO OR left hand side YES NO of hopper has hydraulic valve levers YES NO OR switches YES NO to operate hydraulic cylinder movement YES NO
FROM: X8.6.11	Hopper rear door has internal door prop
TO: X8.6.11	Hopper rear door has internal \(\sqrt{\sqrt{o}} \) or external door prop

LEAVE A X8.6.18	AS WRITTEN: An S inch diameter by foot long catch basin nozzle injection and quick clamp is provided YI	with water
	An additional Sinch diameter by Hoot aluminum exclamps is provided YI	ES NO Extension with quick ES NO
FROM: X8.6.19		to raise and lower
TO: X8.6.19	Is a push button finger tip hydraulic or pneumatic control handles to raise and lower nozzle to be supplied YE	on the nozzle
FROM: X8.6.21	Is hopper hose heavy duty rubber YF	ESNO
TO: X8.6.21	Is hopper hose woven heavy duty rubber Thickness: 38 inches Kanaflex - 180AR	SNO
LEAVE A X8.6.23	AS WRITTEN: Does right side (curb side) of hopper have inspection door	4
LEAVE A X8.6.25	designed as to not allow dumping debris on top of said bypaper	
LEAVE AS	4S WRITTEN: Have you used any hare steels including stainless steels YF	s / NO

	NGED REQUIRED: Does protection system provide protection such that the hopper will be warranted for life of sweeper VES NO
	warranted for life of sweeperYESNO Manufacturer of liner:Rhmo Lhings, Inc.
LEAVE A X8.7.4	AS WRITTEN: Does dust separator have self opening door made of abrasion resistant steel to allow automatic discharge of debris when tilting hopper YESNO
LEAVE A	AS WRITTEN:
X8.8.7	Are water lines color coded
	S WRITTEN:
<i>LEAVE A</i> X8.8.13	IS WRITTEN: Inside the pick up head has easily removable water spray nozzles YES NO
LEAVE A	S WRITTEN:
X8.8.14	S WRITTEN: Suction hose had easily removable spray nozzlesYESNO
FROM: X8.8.15	Is water flow to pick up head, suction hose, side brooms by two (2) electric 12 volt, diaphragm type pumps or electric roller pump, belt driven cat triplex YES NO
TO: X8.8.15	Is diaphragm or roller style pump provided for standard dust suppression YESNO
DELETE	
X8.8.16	Diaphragm type pumps provide 45GPM@ 45PSI combined VYESNO Roller style pump with up topsiYES VNO or Cat Triplex style pump with up toPSIYES VNO

	IS WRITTEN:		
X8.8.18	Is an additional spray bar mounted under the front be provided for extreme sweeping conditions		
	AS WRITTEN: Is water spray line to the center broom provided for i	ncreased dust su YES	appression _NO
DELETE X8.8.20	: Is quick disconnect for high pressure wash down easi sweeper	ly accessible on 1	ight side of NO
	S WRITTEN: Is reservoir located within the enclosed auxiliary engine	compartment YES	.NO
FROM: X8.10.2	Do sweeper air components have separator air tank	YES V	_NO
TO: X8.10.2	Do sweeper air components have separator air tank Is it neededYES NO	YES_	NO
	S WRITTEN: Is sweeper wiring harnesses color coded and function inches	stamped every s YES	ix (6) NO
LEAVE AS X8.11.9	S WRITTEN: Manufacturers recommended LED arrowboard rear moun-	YES	NO
	S WRITTEN:		
X8.12.4	Are controls for auxiliary engine ignition and throttle pressure, and manual reset circuit breakers located in		

FROM: X8.14.4	A sweep resume feature is provided	YES	NO
	Does it include automatic pickup of side broom idle when sweep resume control is activated of reverse, and return to previous sweeping posi- out of reverse or sweep resume control is return	r when truck transmis tions when transmissio	sion is put in n is taken ion
TO:			
X8.14.4	A sweep resume feature is provided	VES	_NO
	Does it include automatic pickup of side broom idle when sweep resume control is activated or reverse, and return to previous sweeping posit out of reverse or sweep resume control is return sweeps in reverse vacuum head with automatic truck is placed in reverse	r when truck transmiss tions when transmissio rned to sweening positi	sion is put in n is taken ion or
ADD: X8.14.5	Mounted tool box for tool storage 16 inches		all x
	inches deep, lockable tool box, mounted	curb side for safety YES	_NO

SCHWARZE SWEEPER 12 MONTH LIMITED WARRANTY

Schwarze Industries, seller, provides warranty coverage to the original purchaser for all new eqiupment manufactured by Schwarze Industries, Inc. Schwarze-built sweepers are warranted to be free from defects in materials and/or workmanship under normal operating conditions, and when used in a proper application, for a period of twelve (12) consecutive months from the date placed into service, or twelve hundred (1200) hours of operation, whichever occurs first, provided all recommended maintenance is performed as scheduled.

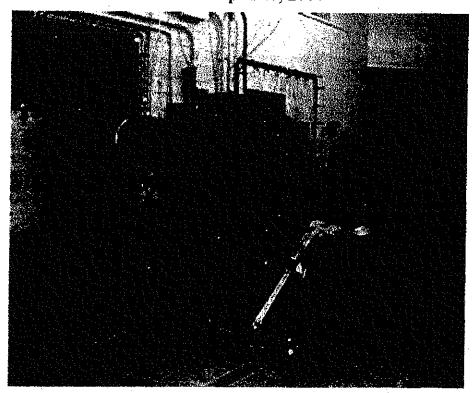
CUSTOMER COPY

ner Information Date Placed in Service.	WARRANTALIBITIALITY Chassis VIN #:	Time or Hours, Whichever Connection Model #:	Zip:	spect to this Warranty shall be to replace or repair as orthors, onto them	prove to be descrive during the warming which was an in the personal state of the provided of the solid of th	WHAT IS NOT COVERED. This warranty shall not apply to damage or defects caused by negligence, carelessness, unauthorized repair work, use of unauthorized repair parts or to damage due to accident, misuse or abuse on the part of the purchaser or his or her or its servants, agents, representatives or employees, or to damage caused by acts of	God. This Warranty shall not apply to toutine maintenance, repair and adjustments, or to the wear parts, including but not limited to the following: A-Series & S-Series Sweepers — flaps, drive belt, hoses, broom bristles, seals, low arms. throttle cable, fan housing liner, door trim, filters, light bulbs, tires, water nozzles,	spray ups, screens, pungs, switches, and naps and mirrors. Mr. Series have pressed brooms rubbers show bearings, flaps, drive couplings, drag brush, caster wheels, light bulbs, tires, water nozzles, spray tips, belts, control cables, filters can be a support of the couplings o	OTHER THE INTERPRETATION OF THE INTERPRETATI	O AST D RV IN HE CONTROL OF THE CONT	the cent that the manufacturer's Warranty may be passed on to Periode in a good supplying the supplying the manufacturer's Warranty may be passed on to Periode in the free models to replacement and the disclaimer of a few first models to replace the supplying the disclaimer of a few first models to replace the supplying the disclaimer of a few first models to replace the supplying the disclaimer of a few first models to replace the supplying the disclaimer of a few first models to be a few first models the supplying the disclaimer of a few first models the supplying the	THE EXPIRATION OF THE WAR	the tota mext-da	e shipped C.O.D. unger the Purchaser has previously estabilished an account with Schwarze and provided that such account is not past due and that the Purchaser has not exceeded his/ it. Warranty credit with regislable only on parts which are received by Seller within thirty (30) days of the Purchaser's receipt, and if the replacement or repaired part is returned and only if the component approves it for warranty replacement. In NO case will credit be available for defective parts received by Seller later than (30) days after Schwarze	TY: This Warranty i	
Registered Owner Information Name:	Address:	City:	State:	WHAT WE WILL DO: Sell	prove to be descrive during at Serller's sole option, at the	WHAT IS NOT COVERED to damage due to accident, in	God. This Warranty shall not ap A-Series & S-Series Sweepers:	Spiray ups, screens, spinings, s M-Series Sweepers; brooms, filters, switches Bernaries, 20	Except for the warrantes stated ferein, FITNESS FOR A PARTICULAR PURI	NOT LIMITED IN DARWING TO USE OF LOSS GOODS, OR CLANAS OF CLSTOMERS. The remedies of the Purchaser set for the covered by or furnish the set of	memors internors	33	snipped at Fuchaser's expensal will be shipped via air freight. (U.P.S. ground, common carriet,	Warranty will be shipped C.O.D. Under the her/its credit limit. Warranty credit will freight prepaid, and only if the component	ships the replacement part. TRANSFER OF WARRANTY: considered, any Transfer request	The vehicle identification A. Name and address of the No employee or agent of Seller upon Schwarze. To get further b



AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL, INC. 30 West University Drive • Arlington Heights, Illinois 60004-1893 Phone: (847) 394-0150 • Fax: (847) 253-0088 • E-mail: LAB@amca.org

AMCA LABORATORY TEST NO. 16110-A1 Tested April 25, 2000



MVC-042F.JPG

AMCA Standard 210 Air Performance Test Figure 12 Setup Installation Type B

Air Movement and Control Association International, Arlington Heights, Illinois, USA

Test Number: 16110-A1 Date of Test: 04/25/00

Tested For : Schwarze Industries

29.29 in Hg

Unit: Manufacturer :

Outlet Area:

Centrifugal

.939 ft²

Schwarze Industries

Trade Name : A7000 Model Number : A7WW

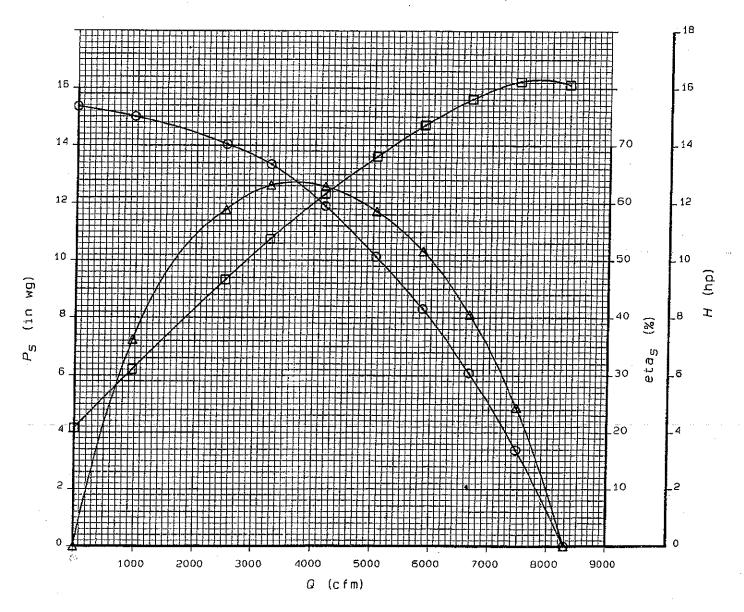
Impeller Diameter: 33 in 3.21 ft² Inlet Area:

Test Method per AMCA Standard 210-85, Figure 12, Installation Type B. Results at Standard Air, Speed = 1600 rpm.

LEGENO

Fan Flow Rate, Q

- Fan Static Pressure, Ps
- Fan Power Input, H
- Fan Static Efficiency, etas



Air Movement and Control Association International, Inc. Arlington Heights, Illinois, USA

Test Unit : Centrifugal

Manufacturer : Schwarze Industries

Trade Name: A7000 Model Number: A7WW

Impeller Diameter : 33 in
Inlet Area : 3.21 ft²
Outlet Area : .939 ft²

trze Industries Date of Test: 04/25/00
Tested For - Schwarze

Tested For : Schwarze Industries

Witness: None Technician: JR

Test Number: 16110-A1

 $p_{br} = 29.42 \text{ in Hg} \\ t_{db} = 73 \text{ °F}$

 $p_b = 29.29 \text{ in Hg}$

Test method per AMCA Standard 210-85, figure 12 setup (Installation Type B).

Results at Test Conditions :

Det.	rho (lbm/ft³)	N (rpm)	P _t (in wg)	P _v (in wg)	P _s (in wg)	Q (cfm)	H (hp)	K_p	eta _t (%)	eta _s (%)
.1	0.0729	1606	4.781	4.780	0.001	8319	15.848	0.9984	39.38	0.01
2	0.0728	1606	7, 159	3.841	3.318	7491	15.948	0.9959	52.64	24.40
3	0.0728	1606	8.996	3.039	5.957	6683	15.341	0.9941	61.23	40.55
4	0.0728	1606	10.466	2.335	8.131	5875	14.436	0.9926	66.45	51.63
5	0.0728	1606	11.640	1.730	9.910	5067	13.364	0.9916	68.78	58.56
6	0.0728	1606	12.815	1.181	11.634	4196	12.091	0.9907	69.26	62.87
7	0.0728	1606	13.769	0.719	13.050	3278	10.549	0.9903	66.59	63.12
8	0.0729	1606	14.176	0.426	13.750	2521	9.165	0.9908	60.73	58.91
9	0.0730	1606	14.762	0.062	14.700	961	6.108	0.9961	36.35	36.20
10	0.0730	1606	15.050	0.000	15.050	0	4.086	1.0000	0.00	0.00

Results at Standard Air, N = 1600 rpm:

Det.	P_{ϵ}	P_{ν}	P_{s}	Q	H	K_{α}	eta _r	eta.
	(in wg)	- (in wg)	(in-wg)	(cfm)	(hp)		(%)	(%)
1	4.882	4.881	0.001	8288	16.123	0.9984	39.38	0.01
2	7.318	3.926	3.392	7463	16.241	0.9959	52.64	24.40
3	9.194	3.106	6.089	6658	15.622	0.9941	61.23	40.55
4	10.701	2.387	8.314	5853	14.706	0.9926	66.45	51.63
5	11.902	1.768	10.133	5048	13.615	0.9916	68.78	58.56
6	13.107	1.208	11.899	4180	12.320	0.9907	69.26	62.87
7	14.083	0.735	13.348	3266	10.750	0.9903	66.59	63.12
. 8	14.476	0.435	14.041	2512	9.324	0.9908	60.73	58.91
9	15.063	0.063	15.000	957	6.209	0.9961	36.35	36.20
10	15.354	0.000	15.354	0	4.153	1.0000	0.00	0.00

Air Movement and Control Association International, Inc. Arlington Heights, Illinois, USA

Test Unit: Centrifugal Test Number: 16110-A1
Manufacturer: Schwarze Industries Date of Test: 04/25/00

Trade Name: A7000 Tested For: Schwarze Industries

Model Number: A7WW Witness: None / Tmpeller Diameter: 33 in Technician: JR

Inlet Area: 3.21 ft² $p_{br} = 29.42$ in Hg Outlet Area: .939 ft² $t_{db} = 73$ °F

 $p_b = 29.29 \text{ in Hg}$

Test method per AMCA Standard 210-85, figure 12 setup (Installation Type B).

Appurtenances: Tested with client supplied outlet duct installed.

Additional Comments : Contract Test.

Data at Test Conditions :

Large Chamber - AMCA Standard 210-85, figure 12 setup.

Det.	t _{d0}	two	t _{d2}	t _{d5}	P_{s5}	dР	t _{d7}	P_{s7}	$oldsymbol{T}$	Nozzle
	(°F)	(°F)	(°F)	(°F)	(in wg)	(in wg)	(°F)	(in wg)	(lb-in)	Combo
1	70.9	56.7	72.8	72.8	0.001	2.360	72.8	0.001	621.92	13
2	71.4	57.0	73.4	73.4	3.318	1.896	73.4	3.318	625.85	13
3	71.3	57.2	73.5	73.5	5.957	1.500	73.5	5.957	602.05	13
4	71.5	57.4	73.7	73.7	8.131	1.153	73.7	8.131	566.52	13
5	71.5	57.4	73.9	73.9	9.910	0.855	73.9	9.910	524.47	1.3
6	71.6	57.6	74.2	74.2	11.634	0.585	74.2	11.634	474.49	13
7	71.6	57.7	74.5	74.5	13.050	0.357	74.5	13.050	414.00	13
8	70.7	57.5	74.5	74.5	13.750	5.455	74.5	13.750	359.67	7
9 '	70.3	57.4	74.4	74.4	14.700	14.650	74.4	14.700	239.71	5
10	70:2	57.4	74.2	74.2	15.050	15.050	74.2	15.050	160.35	0

Nozzle				Open Nozzle Diameters (in)	
Combo					
13)	7.0	10.0	10.0	*	
7)	7.0				
5)	1.6	3.0			

The following instruments, calibrated as required per applicable AMCA Standards, were used for this test:

SOUND

Instrument
Dual Channel Real-time Frequency Analyzer Bruel & Kiaer Type 2133 (141)
Condenser Microphone Cartridge (Random Incidence) Bruel & Kjaer Type 4192 (212)
Microphone Preamplifier Bruel & Kjaer Type 2669 (206)
Rotating Microphone Boom Bruel & Kjaer Type 3923 (144)
Pistonphone for Acoustic Calibration Bruei & Kjaer Type 4220 (195)
Double Screened Extension Cable (30m) Bruel & Kjaer Type AO 0029 (145)
RSS Ilg Industries (213)
Correction Barometer Bruel & Kjaer Type UZ001 (197)

PRESSURE

PRESSURE	
/	Manometer
	Small Chamber 10 in, we Meriam Inclined Model 40HA10 (103)
	Small Chamber 6 in. wg Meriam Inclined Model 40HA10 (104)
	Large Chamber 10 in. wg Meriam Inclined Model 40HA10 (106)
<u> </u>	Large Chamber 6 in. wg Meriam Inclined Model 40HA10 (105)
· .	Meriam U Type Model 10AA25WM 50 in. wg (107)
	Meriam U Type Model 10AA25WM 50 in. wg (108)
	Dwyer Inclined Model 246 (101)
	Dwyer Inclined Model 246 (102)
A	Meriam U Type 10AA25WM 24 in. wg (208)
	Transducer
A	Static & Total Pressure Data Metrics Barocel Model 590D (99) HP3497A, 44421A (114)
A	ΔP Data Metrics Barocel Model 590D (100) HP3497A, 44221A (114)
/	Вяготејег
A	Princo Mercury Column Barometer (79)
	High Pressure Gauge
	Dual Frunt Pressure Gauge U.S. Gauge 150 nsi (109)
	Dual Frunt Pressure Gauge U.S. Gauge 35 psi (110)
	ABM Model NB Pressure Gauge 30 psi (111)

WATER FLOW RATE

1.	Meters and Manifolds	
		Dwyer Flow Meter RMC 141 (186)
	Rainfall	Rainfall Manifold (188)
		Dwyer Flow Meter RMC 143 (187)
	Wetted Wall	Wetted Wall Manifold (189)
	Scale	Ohause Model 1650 (190)

ELECTRIC METERS

/	Meter
	Fluke 75 Multimeter (184)
	Fluke 75 Multimeter (185)
	Ohio Semitronics PTP - 709A Wattmeter (182)
	Ohio Semitronics W20K3A Wattmeter (183)

AIR VELOCITY

Meter
Kurz Model 443A (181)



Friday, May 23, 2008

Trevor Gardner III
Atlantic Machinery, Inc.
2702 Garfield Ave
Silver Spring, MD 20910

Re: West Virginia DOT Hopper Liner

Dear Trevor:

The hopper liner that will provided with the Schwarze Model A7000 Regenerative Air Street Sweeper for West Virginia DOT will be Rhino Hard Liner supplied by Rhino Linings.

This lining when applied, provides protection against abrasion and corrosion. The warranty in this application per Rhino Linings is for the life of the sweeper. This warranty has the following clauses that need to be adhered to maintain the lifetime warranty.

- 1. The Rhino Hard Liner must be inspected annually by a local Rhino dealer. This inspection is the responsibility of the end user and all reports of this inspection must be sent to Atlantic Machinery, Inc. and Schwarze Industries, Inc. on an annual basis.
- 2. Any repairs that are required after the yearly inspection will be handled at Rhino Linings at no-charge.
- 3. All transportation for the annual inspections will be the responsibility of the end user.

If you have any questions, please do not hesitate to call.

Sincerely,

Raymond Massey National Sales Manager

Raymond Warry

"New Ideas From The Company That's Sweeping The Earth" SM



December 7, 2007

Dear Distributor:

We are pleased to provide the dealer and customer service training schedule for 2008. Training is conducted over a four day period for the Schwarze Sweeper and Patcher product lines. The four day training period includes four separate sessions consisting of:

Day 1 (2 hrs)	troduction and Policy and	l Procedure
Safety	Manuals	CD's
Key Contacts	www.schwarze.com	www.schwarzeteam.com
2007 Warranty Policy	PDI Sheets	Set Up Sheets

Day 1 & 2 (10 hrs)	M-Series Service/Maintenance	(M5 M6)
M6 Hydraulics	M6 Electrical	M6 Maintenance
M5 Hydraulics	M5 Electrical	M5 Maintenance

Day 3 (6 hrs)	A-Series Service/Maintenance (A4, A7, A8 & A9)		
A4 Hydraulics	A4 Electrical	A4 Maintenance	
A7/9 Hydraulics	A7/9 Electrical	A7/9 Maintenance	
A8 Hydraulics	A8 Electrical	A8 Maintenance	

Day 4 (4 hrs)	Patcher Series Service/Mainte	enance (RP005, SP010, SP550)
RP005 Hydraulics	RP005 Electrical	RP005 Maintenance
SP010/550 Hydraulic	s SP010/550 Electrical	SP010/550 Maintenance

You are welcome to attend any or all of the product segments offered during the training periods however please remember yearly training is required* for each SII dealer and branch to maintain current certification for each product they represent.

Wes Brant

256-851-1235

wbrant@schwarze.com

For Schwarze Industries Inc.

NãO BS

Wes Brant

Product Assurance Manager

*Mandatory training as per the SII Distributor Service Center Evaluation



Factory Service Training Schedule 2008

DATE OF CLASS	PRODUCTS
January 22, 23, 24 & 25	A, M & Patcher Series
February 12, 13, 14 & 15	A, M & Patcher Series
March 18, 19, 20& 21	A, M & Patcher Series
April 22, 23, 24, & 25	A, M & Patcher Series
May 20, 21, 22 & 23	A, M & Patcher Series
June 17, 18, 19 & 20	A, M & Patcher Series
July 22, 23, 24 & 25	A, M & Patcher Series
August 12, 13, 14 & 15	A, M & Patcher Series
September 23, 24, 25 & 26	A, M & Patcher Series
October 21, 22, 23 & 24	A, M & Patcher Series
November 18, 19, 20 & 21	A, M & Patcher Series
December 9, 10, 11 & 12	A, M & Patcher Series

Classes are held in the SII's training room starting at 8:00 AM with a 1 hour lunch break, finishing at 4:30 PM.

Attendees will receive a training participation certificate and a CD containing the training program presentation, a complete set of part manuals, hydraulic and electrical schematics.

Early registration cutoff dates:

10 business days before class start date

Class size is limited to twelve (12) attendees per day.

Fees:

Early registration	\$100.00
Registration	\$135.00
Non-dealers	\$150.00

Transportation, meals, and lodging paid by attendee.

Fax 256-851-1189 or e-mail <u>wbrant@schwarze.com</u> registration form no later then 2 business days before class start date.

If you should have any questions please contact:

Wes Brant	(Work)	256-851-1235
	(Cell)	256-683-0135
	(Fax)	256-851-1189
	(E-mail)	wbrant@schwarze.com

Enclosures:

Registration Form Hotel Listing

Schwarze Industries Service Training Registration Form

"New Ideas From The Company That's Sweeping The Earth" SM



Indicate Class Date from At	tached Schedule: _		_Huntsville, Alabama
Attendee name:			
Title:			
Company:			
Address:			
Telephone:	Fax:	E-Mail:	
ACCOMMODATIONS FOR arrangement, such as enhanced audit oral, or sign interpreters, please confidence of the confidence o	io amplification, specific	dietary requirement	NEEDS: For any special nts, physically challenged,
REGISTRATION FEES: Th	e registration fee includ	es all class sessions	s, materials, and daily lunch.
Early registration fee (postmarked b Dealer registration fee (postmarked End user registration fee (postmarke Total:	by 2 business days prior	to class start)	@ \$100.00 @ \$135.00 @ \$150.00 \$
Lodging, lodging reservations (see responsibility of the attendee.	hotel listing following),	transportation, an	d meal costs are the
Payment method:			
Check enclosed	Institutiona	d Purchase Or	ler Attached
Credit Card:	Credit Card	Number:	
Visa MC Amex Discover	Expiration 1	Date:	
Name on Card:			
RETURN COMPLETED FO	ORM AND FEE TO) :	
Schwarze Industries Inc. External Training 1055 Jordan Road Huntsville, AL. Fax: 256-851-1189 E-mail: wbrant@schwarze.com	35811		
Schwarze Industries reserves the right to cane we understand the inconvenience this may can	el a class due to low enrolmen use attendees and businesses.	it. We will make every o	effort not to cancel our classes, as
For Company Use Only			
AMOUNT PAID:	DATE:	_Rec. by:	

"New Ideas From The Company That's Sweeping The Earth" $^{\rm SM}$



LaQuinta Inn 3141 University Drive Huntsville AL 35816 256-533-0756 Contact: Billie Bump \$39.00 estimated http://www.lq.com/lq/index.jsp Holiday Inn Research Park 5903 University Drive Huntsville AL 35816 256-830-0600 Contact: Michelle Bragg \$72.00 estimated http://www.ichotelsgroup.com

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SCHWARZE A7000

Regenerative Air Sweeper

Versatile Exceptional Durability Powerful



ATLANTIC MACHINERY INC. 2702 Garfield Ave. • Silver Spring, Maryland 20910 (301) 585-0800 FAX (301) 585-7681



SCHWARZE INDUSTRIES A 7000 SWEEPER

Versatile Exceptional Durability Powerful Schwarze Industries is dedicated to using a Total Performance Teamwork concept to produce, maintain and market the finest power sweeping equipment in the world. All of our products are made with pride in the USA, and we offer a broad line, with more sweeper models to choose from than any other manufacturer in America.

The Schwarze model A7000 is a heavy duty, chassis-mounted, regenerative air sweeper with an 8.4 cubic yard hopper. Its basic design has had over 20 years of successful operation throughout the United States and around the world. As one of the largest, most powerful air sweepers in existence, the Schwarze A7000 is an ideal choice for use in a wide range of demanding municipal and contractor sweeping applications.

The A7000 blower system generates a high velocity air column over 17,000 CFM that is propelled into the top of the sweeping head through a 14-inch blast tube. The air is first pressurized in the upper chamber of the sweeping head and then

expelled into the head's lower chamber through the blast orifice. This high volume air blast loosens the debris from the pavement surface, then transports it across the width of the sweeping head and lifts it into the containment hopper via a 14-inch suction tube. This highly efficient system ensures that even hard-to-reach particles hidden within pavement cracks and irregularities are removed. This includes a significant amount of the 'PM-10 fines' known to contain a high percentage of heavy metals and other pollutants. That's why the A7000 has been certified as 'Rule 1186 Compliant' by the South Coast Air Quality Management District, one of southern California's leading state environmental agencies.

Hydraulic System		Auxiliary Hydraulic S	System
Type Pump Capacity	Dual output 2 section 6.5 gpm (d1800RPM	Туре	Gear type, driven by
	(24.6L / min.) per section for 13.0gpm total	Function	Raise/lower hopper, open/close hopper door,
Drive	Direct gear		raise brooms and
Maximum Pressure	2500psi (173 bar)		pickup head
Reservoir	25 gallons (94 liters)		·
Filter	10 micron, spin on		
Protection	Pressure relief valve	·	
Controls	Electro-hydraulic		•

SCHWARZE A7000



Standard Equipment

Schwarze-Exclusive WhisperWheel⁵M Fan System

Noise Reduction Shroud

Sweeps-In-ReversesM Sweeping System

DC Auxiliary Hydraulic Pump

Hopper-Mounted Amber Strobe Light with Limb Guard

High Level Brake Light

Amber Flashing Warning Lights

Rear Flood Lights

3 Point Automatic Auxiliary Engine Shutdown System

Washdown System

Hydrant Wrench

Fire Extinguisher

Backup Alarm

Resettable Circuit Breakers

Road Flare Kit

To assure debris transfer with minimal fugitive dust escapement, double-belted curtains on the front and rear of the sweeping head contain the circulating air flow. This prevents dirty, debris-laden air from entering into the atmosphere as fugitive dust particles. The Schwarze A7000 picks up more of the micron-sized contaminates that accumulate on roads and streets. Recent studies emphasize the importance of removing these PM-10 fines' due to the amount of non-point source pollutants that contribute to America's stormwater runoff stream. Using the regenerative air Schwarze A7000 sweeper results in a cleaner surface and a cleaner environment.

The model A7000 has several industry-leading features that position it at the head of its class. These include Schwarze's WhisperWheelSM fan system, which lets Schwarze air sweepers run over 70% quieter and with less fuel consumption. The A7000 is also available with the patented Mechani-Pneumatic Broom Assist Sweeping HeadSM and Schwarze Sweeps-In-ReverseSM, allowing operation in both forward and reverse directions.

Rule 1186 AQMD Certified

The Schwarze model A7000 sweeper has been designated by the South Coast Air Quality Management District as Rule 1186 Certified for its ability to pick up and contain small-micron material.

Side Brooms

Type Location

Diameter
Drive
Suspension
Wear Adjustment
Pressure
Speed
Segments

Tilt Angle Adjustment

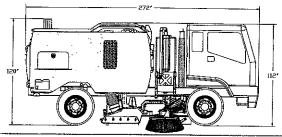
Vertical steel digger
Right, Left, forward of
pickup head
44" (1117.60 mm)
Hydraulic
Torque-sensing spring
Automatic
Manual
Variable, non-reversing
5 each side, disposable
Manual with optional in-cab
controls

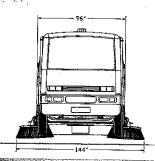
Debris Hopper

Volumetric Capacity
Useable Capacity
Dump Angle
Floor Angle
Lifting
Hopper Dump Door

Inspection Doors

8.4 cubic yards (6.4 cu. meters)
7.0 cubic yards (5.4 cu. meters)
53 degrees
3 degrees
Twin hydraulic cylinders
Open/close/
lock hydraulically
1 on each side of hopper





Model shown with optional equipment. Design and specifications subject to change without notice. Specifications may vary depending on chassis type

Sweeping Path	ont Change Prime Different and
Pickup Head Only	90" (2,286mm)
Pickup Head and one gutter broom	117" (2,972mm)
Pickup Head and two gutter brooms	144" (3,658mm)
Chassis	
Mounts on various chassis to meet requirements	
Sweeper Body	
Construction	Welded 10-gauge steel plate with 3/16 steel hopper floor
Safety Prop	Dual steel bars located under body
Instrumentation	
Sweeper Engine	Tachometer, hourmeter, voltmeter, temperature gauge, oil pressure gauge
Standard Engine	
Model / Type	Tier III 4045T In line cylinder
Aspiration	Turbo-charged diesel
Manufacturer	John Deere
Displacement	275 cu. in. (4.5L)
Brake Horsepower	115HP (86KW) @
Torque	2400 RPM 317ft-lb (430Nm)
Air Cleaner	@1500RPM Sy Klone centrifugal
	precleaner; dry type with dual safety elements and
	restriction indicator
Oil Filter	Full-flow / Spin on
Stroke	5.00" (127mm)
Воге	4.20" (106mm)
Compression Ratio	19.0 to 1
Safety Shutdown	Three-point automatic
Throttle Control	Electronic

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Electrical System	
Voltage Sweeper Engine Alternator	12 Volt 65 Amperes
Dust Control System	
Туре	High Pressure /
Capacity	Low volume 250 Gallon (946 L) (600 gallon on
Tank Construction Filter Fill Diameter Fill Hose Controls Nozzles	cab-over chassis) Polyethylene 200 mesh, cleanable 2.5" (63.5mm) 25 foot (7620mm) Electric; in-cab 2 on each broom 5 around suction head 2 inside suction nozzle 2 on front axle 2 inside hopper
Blower System	Z mside nopper
Type Drive Construction	Closed-face radial Direct via 5 groove, banded power belt Hardox Steel
Balance Diameter Housing Lining Mounting	1.5 grams on 2 sides 32.75" (832mm) Bolt-in corded rubber 2 regreaseable
Vacuum Enhancer	sealed bearings For heavy/light material
Pickup Head	
Туре	Dual chambered full-width blast orifice
Operating Direction Suspension	Forward and reverse Adjustable spring balanced
Length Pressure Hose Diameter Suction Hose Diameter Hose Construction	90" (2,286mm) 14" (355.6mm) 14" (355.6mm) 3/8" (9.5mm) wire-reinforced

molded rubber

3,240 sq. in. (20,903cm2)

ydraulic raise nd lower ouble wide
ouble wide
ingsten carbide
brasion-resistant eel inlet and outlet ansitions
r. h

Imron 5000 polyurethane in standard white color

Optional Equipment

Patented* Mechani-Pneumatic Powerhood^{5M} (Broom Assist Head) Single or Dual Gutter Brooms In-Cab Tilt Control for Gutter Brooms Gutter Broom Extension OverridesM (GEOSM) System Single or Twin Remote Cameras with In-Cab Video Monitor **Dual Steering** Sound Suppression System Cab-Mounted Barlight Beacon Safety Beacon with Limb Guard Spray Bar for Front Bumper, and Hopper Hopper Deluge™ (Hopper Washdown System) Extra 220-or 350-Gallon Polyethylene Water Tank (Cabover only) Hopper Drain System 8" Auxiliary Hand Hose 4 Point ProtectionsM (Stainless Steel Hopper Package) Magnet Bar Spare Tire and Wheel Special Paint for Sweeper and Chassis Hydraulic or Spring System for Hand Hose Other Options Available

Warranty

The A7000 regenerative air sweeper is guaranteed to be free from defects due to faulty materials and / or workmanship for a period of 12 months, or 1200 hours. Liability is limited to replacement of defective parts at factory or authorized dealer. The standard warranties of the chassis and sweeper engine manufacturer shall apply.

NOTE: Specifications are subject to change without notice

FIE POSSIBILITIES

Head Area

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