

**Technical Specifications**  
**ASPHALT EMULSION DISTRIBUTOR SPRAYER**

**1.0 INTENT**

It is the intent of this specification to provide for the purchase of new and unused Asphalt Emulsion Distributors capable of: a) heating, pumping and spraying asphalt emulsions.

The following specification is based upon a Stratos DMT Asphalt Distributor. The Public Works Department has evaluated different types of asphalt distributor recycling equipment and has determined that this product is best suited for the DPW needs in terms of quality and performance. This specification shall not be interpreted as restrictive but rather as a measure of quality and performance against which all other asphalt distributors will be compared.

In comparing proposals, comparison will not be confined to price only. The successful bidder will be one whose product is judged as best serving the interests of the DPW when price, product, quality and delivery are considered. The DPW also reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. A contract will be awarded to the bidder submitting the lowest responsible bid meeting the requirements.

**2.0 EQUIVALENT PRODUCT**

Bids will be accepted for consideration on any make or model that is equal or superior to the asphalt recycler specified. Decisions of equivalency will be at the sole interpretation of the DPW. A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. An original manufacture's brochure of the proposed product is to be submitted with proposal. Bidder must be prepared to demonstrate a unit to the one proposed, if requested.

**3.0 INTERPRETATIONS**

In order to be fair to all bidders, no oral interpretations will be given to any bidder, as to the meaning of the specification documents or any part thereof. Every request for such a consideration shall be made in writing. Based on such inquiry, the DPW may chose to issue an Addendum in accordance with local state laws.

**4.0 GENERAL**

The specification herein states the minimum requirements of the DPW. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The DPW will consider as irregular or nonresponsive any and all bids that are not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the DPW to make a reasonable determination of compliance to the specification. It shall be the bidder's responsibility to carefully examine each item of the specification. Failure to offer a completed bid or failure to respond to each section of the technical specification (COMPLY: YES NO) will cause the proposal to be rejected without review as non responsive. All variances, exceptions and/or deviations shall be fully described in the appropriate section. Deceit in responding to the specification will be cause for rejection.

**Yes / No 5.0 Body**

- \_\_\_ \_\_\_ 5.1 Frame shall be compact, all steel, welded construction  
\_\_\_ \_\_\_ 5.2 Tank shall be compact, all steel, welded construction

- 5.3 Tank constructed of mild steel with minimum thickness of 3/16"
- 5.4 Frame shall meet or exceed DOT safety load bearing standards
- 5.5a Length of 400 gal distributor (with spray bar) shall be approximately 165" (13' 9")
- 5.5b Width of 400 gal distributor (with spray bar) shall be approximately 84" (7')
- 5.5c Height of 400 gal distributor (with spray bar) shall be approximately 77" (6' 5")
- 5.6a Length of 600 gal distributor (with spray bar) shall be approximately 191" (15' 11")
- 5.6b Width of 600 gal distributor (with spray bar) shall be approximately 84" (7')
- 5.6c Height of 600 gal distributor (with spray bar) shall be approximately 78" (6' 6")
- 5.7a Length of 1000 gal distributor (with spray bar) shall be approximately 196" (16' 4")
- 5.7b Width of 1000 gal distributor (with spray bar) shall be approximately 84" (7')
- 5.7c Height of 1000 gal distributor (with spray bar) shall be approximately 86" (7'2")

**Yes / No 6.0 Burner Heating System**

- 6.1 Burner shall be forced air with spark ignition and flame out protection
- 6.2 Shall utilize Becket burner
- 6.3 Shall include a thermostat temperature controller with digital readout
- 6.4 Shall include a thermometer coupled to the tank
- 6.5 Shall utilize flues with submerged heating tubes, minimum 6" diameter
- 6.8 Flues shall have a minimum heat transfer area of 29 SF
- 6.9 Diesel fuel tank for burner shall have a minimum capacity of 13 gallons
- 6.10 Burner shall have minimum capacity of 350,000 BTU/Hr
- 6.11 Burners shall be marked with UL, Underwriters Laboratory Testing Certificate in compliance with US EPA and safety standards
- 6.12 Option shall be avail. overnight heat maintainer, thermostatically controlled, 220V

**Yes / No 7.0 Material Tank**

- 7.1 Shall be offered in minimum capacities of 400, 600 or 1000 gallons
- 7.2 Shall be made of all steel construction
- 7.3 Shall incorporate an interior baffle
- 7.4 Shall have a minimum thickness of 3/16"
- 7.6 Shall incorporate a material level gauge
- 7.7 Option shall be available for 2" Ceramawool insulation, aluminum outer shell
- 7.8 Shall incorporate a DOT approved locking non-pressurized manway
- 7.9 Manway shall have a minimum 20" diameter with a minimum 10" fill opening
- 7.10 Shall incorporate a breather / overflow valve
- 7.11 Shall incorporate a bottom discharge, cleanout valve

**Yes / No 8.0 Pumping System**

- 8.1 Shall incorporate a Viking pump system
- 8.2 Pump shall have a minimum capability of 32 GPM
- 8.3 Option shall be available for a Viking 60 GPM pump system
- 8.4 Shall incorporate a filter basket with easy to remove cap and replaceable filter
- 8.5 Shall be capable of fully circulating material throughout the tank
- 8.6 Solvent tank shall have a minimum capacity of 10 gallons

**Yes / No 9.0 Engine**

- 9.1 Shall include a Honda motor
- 9.2 Motor shall have a minimum of 8.5hp
- 9.3 Option shall be available for a 13hp Honda motor
- 9.4 Option shall be available for electric start motors

**Yes / No 10.0 Spraying System**

- 10.1 Shall utilize a Hannay Reel system, spring-wind with ball stop
- 10.2 Shall include a minimum 1/2", 50' hose and hand wand with shut-off valve
- 10.3 Option shall be available for a 3/4" hose and hand wand with shut-off valve
- 10.4 Options shall be available for an 8', 12' and 14' spraybar system
- 10.5 Optional spraybar system shall be of folding design
- 10.6 Optional 8' spray bar shall have 1' cutoffs
- 10.7 Optional 12' and 14' spray bar shall have 6" cutoffs
- 10.8 Options shall be available for a remotely operated spraybar via air actuated valve

**Yes / No 11.0 Trailer**

- 11.1 Shall be a DOT approved trailer with 16" wheels and safety chains
- 11.2 Shall have National Assoc. of Trailer Manufacturers certification
- 11.3 Shall utilize US standard axles. No other standard will be accepted
- 11.4 Shall utilize 12Volt DC electric brakes with electric breakaway kit
- 11.5 Option shall be available for hydraulic brakes
- 11.6 Shall be fitted with a height adjustable tongue
- 11.7 Shall use a leaf spring suspension
- 11.8 Reflectors shall be appropriately mounted on the unit
- 11.9 OSHA Safety placards shall be appropriately mounted on the unit
- 11.10 Single Axle trailers shall have axle with a minimum capacity 7,000 Lbs
- 11.11 Double Axle trailers shall have axles each with minimum capacity 7,000 Lbs
- 11.12 Hitch shall be adjustable height
- 11.13 Hitch shall be pintle style ring
- 11.14 Tires shall be 'radial tires' with minimum capacity 235/80 R16
- 11.15 Turn signals and stop lights shall be sealed beam, DOT compliant
- 11.16 Shall incorporate heavy duty diamond plate fenders
- 11.17 Option shall be available for LED lights
- 11.18 Option shall be available for LED strobe light
- 11.19 Option shall be available of Spare Tire with holder

**Yes / No 12.0 Warranty**

- 12.1 Manufacturer's warranty shall be minimum of 1 year
- 12.2 OEM warranties shall be minimum of 1 year

**Yes / No 13.0 Delivery**

- 13.1 Equipment shall be furnished fully assembled, serviced and quality checked
- 13.2 Operator's Manual shall be furnished with distributor and also available digitally
- 13.3 Equipment shall be delivered to municipality's US facility as indicated
- 13.4 Acceptance shall be subject to inspection and approval of the municipality
- 13.5 Delivery time shall not exceed 30 days from arrival of purchase order

**14.0 Exceptions & Deviations**

Bidder shall fully describe every variance exception and/or deviation. List the item number here and fully explain each item which is non-compliant with specification. Additional sheets may be used if required.

---

