

Attachment A: Basic Specifications an Emulsion Storage Trailer

1.0 Purpose:

Unit shall be trailer mounted and designed to be towable at highway speeds. A minimum capacity of 1,000 gallons is required. The tank must be electrically heated when stationary and incorporate a pumping system for filling and dispensing of asphalt emulsion.

The machine shall be capable of operating in temperatures down to 5 degrees Fahrenheit.

1.1 Bidder qualifications:

The equipment being bid must be new, current year production and meet the needs of this specification without modification. The model must be currently advertised, have been in production for a min. of two years and have a working volume of not less than called for in this specification. Hybrid, one-off or prototype equipment is unacceptable.

1.2 Approved Equal:

These specifications are not intended to be restrictive, but are meant to describe the kind and size of unit desired to be purchased in detail. If bidder is basing the proposal on equipment other than what is specified in these bid documents and wishes the equipment to be considered as an "approved equal" they shall submit on a separate sheet, an item by item description of that which is proposed. The bidder's specifications must be complete and of sufficient detail to cover all items included in this bid specification and in a manner that allows a direct comparison. Any item not covered will be deemed as not meeting specifications. Such bidder shall also include, but not as a substitute for the above, any manufacturer's literature. In addition, if the bidder takes exception to any item they shall note this and describe in detail the exception and how the proposal is an "approved equal". Failure to carry out the provisions noted herein may be deemed sufficient reason to reject the bidder's proposal. Check yes if demonstration has been performed prior to bid letting.

YES	NO

2.0 Basic Machine Requirements:

	YES	NO
2.1 1,000 gallon capacity.		
2.2 Trailer mounted and rated for highway class use.		
2.3 Gas powered with on-board pumping system.		
2.4 Electric blanket heated and thermostatically controlled.		
2.7 Stop/ turn sealed lighting including clearance lights.		

Exceptions:

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3.0 Emulsion heating and storage system:

The emulsion tank will have capacity of no more than 1,000 gallons. It shall be insulated and protected by a fire-retardant outer skin. It shall be electrically heated and thermostatically controlled. The tank heating system must be capable of operating continuously regardless of

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whether the emulsion tank is empty or full with no damage to the heating elements or other components. This allows an empty tank to be pre-heated.

YES	NO

3.1 Emulsion heating and storage minimum requirements:

3.1.1 Construction:

The tank must be steel.

3.1.2 Rating:

1,000 gallon capacity.

3.1.3 Insulation:

Min. R15 rated fiberglass insulation.

3.1.4 Outer Skin:

Waterproof fire retardant fiberglass construction.

3.1.5 Loading hatch:

For safety, filler opening will be a min. 14" (2) one vented and lockable.

3.1.6 Cleanout Valve:

Min 3" drain valve will be installed at the bottom of the tank.

3.1.7 Heating source:

Tank will be wrapped with 2 electric blankets for overnight heating. Min. 1500W x (2) 120VAC. A thermostat and overnight heating extension cord will be included. Heating probes will not be considered for alternate as they do not allow tank pre heating and 100% use of emulsion tank volume.

3.1.8 Temperature Indication:

A min. 5" temperature dial will be included.

YES	NO

EXCEPTIONS:

4.0 Trailer/ Frame/Lighting:

The unit will be trailer mounted and capable of being towed at safe highway speeds when fully loaded. The frame shall include rectangle tube frame construction, braking system and highway approved lighting.

YES	NO

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4.1 Trailer minimum requirements:	YES	NO
4.1.1 Construction: The frame is to be constructed of minimum ¼" gusseted 2' x 6' steel tube for safety and strength.		
4.1.2 Adjustable Hitch: A 3" towing ring that is adjustable in height from 15" to 30" high will be provided for lateral adjustability.		
4.1.3 Fenders: Minimum 12 gauge horizontal surface steel fenders.		
4.1.4 Jack: A swing-away weight appropriate adjustable side-winder screw jack must be provided.		
4.1.5 Axle System: To insure towing mobility in both forward and reverse directions, the trailer shall have a dual axle leaf spring system and be rated at a GAWR (Gross Axle Weight Rating) of 14,000 lbs.		
4.1.6 Trailer Brakes: Electric brakes, emergency breakaway switch, radial tires, and two 3/8" x 4 foot long safety chains with slip hooks will be included.		
4.1.7 Lighting: Dual stop, tail, and turn lights will be included. Clearance lighting will also be included. A lighted license plate bracket will be attached to the trailer.		
4.1.9 Wiring Harness: The lighting harness will be woven loom with weather proof connectors at all lights. A six way round plug will be included.		

EXCEPTIONS:

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5.1 Delivery System minimum requirements:	YES	NO
5.1.1 Delivery Hose: A loading hose must be included and be 10' x 2" ID min.		
5.1.2 Engine: A minimum 5hp Honda gas engine will drive the pump system.		
5.1.3 Solvent Flush system: A 5 gallon solvent tank will be plumbed into pumping system to flush pump after use.		
5.1.4 Pumping system: A min. 15gpm gear style pump will be included that has a recirculating circuit for agitation of the emulsion in the tank.		

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EXCEPTIONS:

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6.0 Paint and safety decals:

The unit shall be painted Black DuPont Acrylic paint. It will be equipped with required safety decals and signage.

YES	NO

10.0 Warranty:

The manufacturer shall warranty the equipment for a period of one year Bidder warranty policy must be included with bid submittal.

YES	NO