



Salt Brine Trailer

Specifications

TDOT is looking to procure Salt Brine Trailers as listed in the specifications below.

1. Definitions:

- GVWR – Gross vehicle weight rating – the maximum total safe weight of your vehicle.

2. General Requirements:

- Successful bidder will be responsible for all shipping charges to the four regional garages listed.
- Trailers must be fully assembled and ready for use upon delivery.
- Tires and wheels shall be mounted on trailers prior to TDOT acceptance.
- Three satisfied customers of similar trailers will be required prior to award as references.
- TDOT reserves the right to request a pilot model from the successful vendor to be delivered to one of the locations below.
- Failure to meet specifications and quality workmanship listed in above specifications will not be accepted and will be considered as non-conformance to specifications.
- Failure to meet specifications will lead to pilot model being returned at vendor's expense.

3. Specifications:

3.1 Salt Brine Utility Trailer

Dimensions:

- 14' long x 6' 10" wide G.V.W.R. - 14,000 lb.
- Bed trailer dimensions: 139" long x 6' 10" wide (between the inside of the fenders)
- Trailer frame to be made from steel, 7" X 9.8 lb. channel.
- Tongue to be made from 7" X 9.8 lb. continuous frame and tongue channel wrap around

design, 48" long with mesh floor between tongue rails $\frac{3}{4}$ " x #9 expanded metal.

- Install 3 tabs on each side for attachment of tank straps. 10" tall X 2" wide, $\frac{1}{4}$ " thick flat steel, bent at top 90 degrees with $\frac{3}{4}$ " hole.
- Cross members: (6) each- 6" X 8.2lb. channel. Open center no floor.
- Tongue jack design is drop leg with a sand foot Minimum of 7,000 lb., mounted toward the trailer frame end of the tongue.
- Fenders and fender backs: 10" wide Diamond plate tear drop or Jeep style.
- Walkway on each side: $\frac{3}{4}$ " # 9 expanded metal with 2" x $\frac{1}{4}$ " flat trim attached to fenders front and back coming in toward trailer frame. 10" wide x 26" long in front of fender. 10" wide X 46" long behind fender.
- Back Walkway: $\frac{3}{4}$ " # 9 expanded metal with 2" x $\frac{1}{4}$ " flat trim. Size 68" x 37 $\frac{1}{4}$ ".
- Axles: (2) 7000 lb. EZ lube, w/ cambered brakes on each axle with 8 bolt braked wheel hubs on 6.5" bolt circle.
- Suspension: 6 Leaf Slipper Spring type.
- Wheels: new 16" silver color, modular style with 8 bolts on 6.5" bolt circle
- Tires: new radial construction trailer tires, (235/80R16E, 10 ply).
- Safety Chains: - 2 – $\frac{3}{8}$ " X 36", grade 80, with 1 slip hook and spring latch and D.O.T. ID. tag per safety chain. Safety chain shall be pin attached to the trailer (welding to trailer is not acceptable).
- Trailer will have an adjustable height coupler made from 2" x 4" channel 16" long with 8 holes for maximum adjustability with a 3" I.D. Eye.
- Welding will be performed with MIG/wire-feed equipment and where practical filet welds will be used. Stick welding not acceptable. No cuts/holes shall be made with a torch. All scale and slag will be removed, and cuts ground smooth.
- Lighting to meet all DOT/ICC regulations including red and white/clear conspicuity tape as required. One all-weather covered cord with 7-way RV male connector to be used for lighting and brakes.
- Lights to be LED flush mount, replaceable bulb and/or surface mount lights are not acceptable.

PAINT:

- Finish Primed with a minimum of 2 coats of primer with a finish coat of PPG or equal Low Hap Gloss Black Enamel.
- All Equipment shall be thoroughly cleaned and completely painted with a corrosion resistant finish. Finish shall be smooth, shiny, and free of runs, overspray, and/or other defects.

- NO bare ferrous metal components shall be visible on the Frame.
- Paints and primers used shall be 100% lead and chromate free. MSDS on products used shall be made immediately available to TDOT upon request. All components used in the fabrication of a TDOT trailer that are required to be painted shall be painted Gloss Black.

3.2 Salt Brine Utility Trailer

Dimensions:

- 16' long x 6'10" wide, G.V.W.R – 14,000 lb.
- Bed trailer dimensions: 16' long x 6'10" wide (between the inside of the fenders)
- Trailer frame to be made from steel, 7" X 9.8 lb. channel
- Tongue to be made from 7" X 9.8 lb. continuous frame and tongue channel wrap around design, 48" long with mesh floor between tongue rails ¾" x #9 expanded metal.
- Tongue jack design is drop leg with a sand foot Minimum of 7,000 lb., mounted toward the trailer frame end of the tongue.
- Trailer will have an adjustable height coupler made from 2" x 4" channel 16" long with 8 holes for maximum adjustability with a 3" I.D. Eye or 2 5/16" Ball coupler.
- Cross members: (10) cross members for full support. Size: 3" x 3.5 lb. channel on 16" centers – 12 total counting ends.
- Fenders and Backs: 10" wide Diamond plate tear drop or Jeep style.
- Walkway on each side: ¾" # 9 expanded metal with 2" x ¼" flat trim attached to fenders front and back coming in toward trailer frame. 8" wide x 50" long in front of fender. 8" wide X 36" long behind fender.
- Axles: (2) 7000 lb. EZ lube, w/ cambered brakes on each axle with 8 bolt braked wheel hubs on 6.5" bolt circle.
- Suspension: (6) Leaf Slipper Spring type.
- Wheels: new 16" silver color, modular style with 8 bolt on 6.5" bolt circle.
- Tires: new radial construction trailer tires, (235/80R16E, 10-ply).
- Safety Chains: (2) 3/8" X 36", grade 80 with (1) slip hook and spring latch and D.O.T. Id. tag per chain. Safety chain shall be pin attached to the trailer (welded to trailer is not acceptable).
- Floor shall be 2"X8" Pressure Treated #2 Pine. Screws will be used to attach decking to frame on all cross members.
- Side rail posts shall be made from 2"x 2" 1/8" angle measuring 8" tall from the floor
- Top rail will be 3" x 2" x 3/16" steel angle running the length of the trailer as well as across the front.

- Removable hinged steel ramps shall be built so they can be easily removed when not needed. 1- 1/2" cold rolled steel rod to be used for removable pivot pin. Holes for pins should be cut using a drill press mounted hole saw of proper size. TOUCH CUT HOLES WILL NOT BE ACCEPTED. Ramps dimensions are 5' long 18" wide, with legs made of 3" steel channel with 2" x 2" X 3/16" treads. Ramps must be capable of sliding together in middle section to form one wide ramp.
- Welding will be performed with MIG/wire-feed equipment and where practical fillet welds will be used. Stick welding not acceptable. No cuts/holes shall be made with a torch. All scale and slag will be removed, and cuts ground smooth.
- Lighting to meet all DOT/ICC regulations including red and white/clear conspicuity tape as required. An all-weather covered cord with 7-way RV male connector is to be used for lighting and brakes.
- Lights to be LED flush mount, replaceable bulb and/or surface mount lights are not acceptable.

PAINT:

- Finish Primed with a minimum of 2 coats of primer with a finish coat of PPG or equal Low Hap Gloss Black Enamel.
- All Equipment shall be thoroughly cleaned and completely painted with a corrosion resistant finish. Finish shall be smooth, shiny, and free of runs, overspray, and/or other defects.
- No bare ferrous metal components shall be visible on the Frame.
- Paints and primers used shall be 100% lead and chromate free. MSDS on products used shall be made immediately available to TDOT upon request. All components used in the fabrication of a TDOT trailer that are required to be painted shall be painted Gloss Black.

4. Delivery Locations- Delivery locations include:

• **TDOT REGION 1**

1035 Maintenance Lane
Building E
Knoxville, TN 37914

• **TDOT REGION 2**

7500 Volkswagen Drive
Chattanooga, TN 37416

• **TDOT REGION 3**

6601 centennial boulevard
Nashville, TN 37209

• **TDOT REGION 4**

200 Benchmark PL.
Jackson, TN 38301