

Request for proposal (RFP) for furnishing (1) 85 cubic yard tri-axle steel closed top push out trailer

Town of Henniker

In the state of New Hampshire

General Description:

It is the intent of these specifications to describe an 85 cubic yard, steel, closed top push out, tri-axle transfer trailer. The transfer trailer shall be deemed a semi-trailer as commonly described in the trade. It shall be built to the specification described herein and will meet all applicable state and federal regulations.

The body shall contain a full cross section dimension hydraulically operate panel that will be used for load ejection. The panel will be built to ensure a complete ejection of transported materials. The capacity of the trailer shall be 85 cubic yards exclusive of the movable push out panel at rest in the forward most position in the trailer body.

The trailer shall be equipped with a “barn door style” type tailgate with an opening for connection to a stationary 10-yard compactor with a penetration ram. Specific configuration of the tailgate opening and opening cover accessories to be provided by the buyer.

The trailer shall be a tri-axle spring suspension with ABS/Air braking systems that meets or exceeds the axle manufacturers specifications and all applicable state and federal DOT regulations.

All materials used in the manufacturing of the trailer shall be new and unused.

It is required that the trailer, as specified herein, including standard and optional equipment shall be completely assembled, adjusted and ready for service upon delivery.

A 2-year warranty for manufacturer defect and all additional warranties (paint, tires, etc.) shall be documented and initiated upon date of delivery.

Material or specification substitutions may be made only with approval of the designated representative of the buyer. Substitutions must be of equal or greater quality than the item or items in question.

Any RFP not meeting minimum requirements can be disqualified.

Winning RFP will be awarded to the package that best meets the needs of the Town of Henniker.

Any defect due to manufacturer not meeting RFP or material supplier specification or sub standard materials use will be repaired at full cost by the manufacturer to minimum bid standards for a period of 5 years.

RFP shall include delivery to the Town of Henniker Transfer Station, 1393 Weare Road, Henniker, NH.

RFP shall include provision for the 'trade in' of a 1989 model year Steco 75 cubic yard closed top steel push out trailer. Description and pictures of said trailer may be obtained by notifying contact person listed at the end of this specification. Arrangements to personally view the 1989 trailer may also be made.

Notification of build process is requested to allow possible inspection of build by designated representative.

Specification Details:

Capacity:

Trailer capacity to be 85 cubic yards (exclusive of ejector assembly)

Loading:

Loading through rear opening with main door closed to match customer stationary compactor and secured with side holds to match manual ratchets on compactor.

Securing for Transport and Unloading:

- 1) Rear barn door is to be heavy duty hinged on curbside with grease fittings.
- 2) Tarp system to secure load for transport is to be provided by customer with accessories to attach to barn door provided by manufacturer.
- 3) Door to be watertight to a height of 18 inches

Transfer Trailer Construction:

- 1) Construction shall be all steel, designed in keeping with A.S.A.E. criteria with adequate bracing to withstand all forces generated by the compaction module. It shall be constructed of all new materials and the manufacturer is to certify that the unit as supplied shall be the latest model, incorporating the latest changes and modifications.
 - a) The side walls will be constructed of minimum 1/8" Hardox 450 steel (175,000 min. yield)
 - b) Top shall be constructed of 1/8" Hardox 450 Steel (175,000 min. yield)

- c) Floor to be constructed of 3/16" Hardox 450 steel (175,000 min. yield)
- d) Floor cross members are to be 4" junior I-beams 12" on center
- e) The ejector assembly shall be constructed of a minimum 1/8" Hardox 450 face plate backed by rigid brace members of 4" x 4" x 3/8" horizontal and vertical formed box members to withstand greater forces than the maximum capability of the working hydraulic pressures of the compaction pressures and the discharge thrust.
- f) The ejector is to be guided by 8 replaceable steel shoes and a 6", 12 pound per foot floor level guide channel.
- g) Cylinder support carriage is to travel in steel guide shoes.
- h) Tailgate sheet to be 1/8" Hardox 450 (175,000 min. yield). The opening frame is to be 14" x 1/2" steel plate with 3 inches of plate extending past the door for docking clearance buffer.
- i) Tailgate frame to be 5" x 2.5" x 3/16 rectangular tubing.
- j) Trailer tailgate framing to be 1/4" Hi-Ten box channel.
- k) HD rear bumper.

Ejector Cylinder:

- a) The ejector panel shall be powered by a double acting multi-stage telescoping cylinder with a minimum 8.5" in diameter primary active stage. This cylinder is to produce a minimum of 85,000 pounds of force at a delivered hydraulic pressure of 1500 psi. This cylinder will stroke no less than the full length of the body to insure a full discharge.
- b) A mid mounted cylinder support carriage member supported by 2 steel wheels preventing cylinder sag will travel with the cylinder during the extension and retraction cycles.

Hydraulic System and Power Source (Tank and Valve on Trailer):

- a) Operating power is to be provided by the road tractor through a transmission mounted wet line kit to include disconnects matching tractor.
- b) The tractor hydraulic pump shall be gear type rated at 37 GPM at 1500 psi. (customer)
- c) The hydraulic pump shall draw oil from the trailer mounted minimum 104 U.S. gallons reservoir filled to proper operating level with a "Facto Por 39" or equivalent hydraulic oil.
- d) The reservoir shall be equipped with:
 - 1) Filler port
 - 2) Filler breather cap
 - 3) 50 GPM in-line filter with manual cold weather bypass valve
 - 4) Drain port with valve
 - 5) Sight glass

- e) A street side trailer mounted manually operated spool valve assembly to be ported and relieved for a flow 25% greater than the tractor mounted pump (46.3 GPM) and a pressure relief valve (1500 psi).
- f) Hydraulic oil is to be carried to the trailer through 2 double wire braided hydraulic hoses. These are to be proper length to reach the tractor and equipped with high pressure disconnects. #16 high-pressure line and #20 low-pressure line.

Axles and Suspension:

- a) The trailer shall be a fixed tri-axle arrangement consisting of 3 Reyco 21-B spring suspension 25,000-pound axles installed with an 8" sub-frame.
- b) Heavy-duty air brakes and Haldex auto adjust slack adjusters.
- c) 12 Walther hub piloted wheels with short studs.
- d) 12 Michelin XZE 11R24.5 16 ply tires.
- e) 3 Spicer Dana D22/25000# axles

LED Lights and Reflectors:

The transfer trailer shall be provided with LED lights that conform to Federal Motor Vehicle Standards Number 108.

The lights shall be LED; sealed Lexan Grommet mounted type and wiring to be a sealed harness system Truck-Lite or equal. Tailgate lights are to be "recessed mounted" or "eyebrow over" to protect lights from damage and spillage. License plate and light are to be recessed to provide protection. Mid mount amber turn signals.

Landing Gear:

Landing gear shall be a Holland MK-V, 2 speed, street side crank capable of lifting 180,000 pounds of static load with a lift capacity of 50,000 pounds with 100 foot ponds of input torque. Base will be a steel wheel / skid foot (sand pad) combination.

King Pin:

Kingpin shall be a standard 2 7/8 with a 36-inch setback. The kingpin base assembly is to be made with 1/4" Hardox 450 and Domex cross members.

Paint Procedure:

- a) The trailer will be sandblasted and cleaned thoroughly to bare metal removing all foreign materials: grease, dirt, slag, corrosion and old manufacturing primer. Any items installed on trailer that requires prime and painting of areas that cannot be fully painted in final process should be painted before installation to maintain paint process integrity.

- b) All exposed surfaces are to receive 2 complete coats of Sherwin Williams Genesis EZA960 3.5LBS VOC/Gal Primer.
- c) All primed surfaces are to receive 2 complete coats of Sherwin Williams Genesis GC Single stage topcoat Black in color. ****Paint manufacturer procedures are to be followed to insure full warranty.

Other Items:

- a) No spare tire carrier
- b) Install 2 fire hose fittings on roof. One centered and the second 6 feet from the rear of trailer.
- c) Mud flaps in front of rear tires are to be fixed steel and flexible behind rear tires.
- d) Install hub-o-meter
- e) Install ladder on front of trailer offset to street side.
- f) Install weather tight document holder

Added optional items:

Include possible option of undercoating entire trailer after complete drying of primary paint color with 2 coats to be applied to high abrasion areas (over tires and axles and in the king pin areas over drive axles.

Contact information for inquiries:

Bill McGirr, Transfer Station Superintendent
18 Depot Hill Road
Henniker, NH 03242

Phone# 603-428-3797 (Tuesday-Thursday 8AM to 5PM)
Email: hennikertransfer@tds.net

Deadline to submit bids: 2PM, August 1, 2014

Send Bids to: Town of Henniker
18 Depot Hill Road
Henniker, NH 03242
Attn: Transfer Station Trailer Bid

Or email to hennikertransfer@tds.net