

INVITATION FOR BIDS - MSW TRANSFER TRAILERS

Three Rivers Solid Waste Authority (Authority) provides solid waste management services for the counties of Aiken, Allendale, Bamberg, Barnwell, Calhoun, Edgefield, McCormick, Orangeburg, and Saluda, South Carolina.

The Authority is accepting bids from qualified vendors for three (3) transfer trailers. These trailers will be an aluminum open top, leak resistant, tandem axle semi-trailer with a hydraulic operated “Keith” walking/live floor that is designed to haul municipal solid waste. The entire trailer including the tailgate and walking floor shall be leak resistant (not leak-proof). The tailgate must be equipped with an air gate that can be opened to reduce friction loss when transporting empty loads. The trailers must be equipped with electric over hydraulic automatic tarping systems (side to side) as described in this document, manufactured by Mountain Tarp referred to as “Side Flip.” Tarps must be designed to completely control litter, with a tensioner cable to allow for loads above the top of the trailer.

Additional features are listed in the “Specifications” section of this Invitation for Bids (IFB). The trailers will be used to transport municipal solid waste (MSW) from area transfer stations to the regional landfill.

A. INSTRUCTIONS TO BIDDERS

1. Complete enclosed bid sheet and specification check list. Indicate that trailers conform to specifications in space provided. If unit (or company) does not meet specifications, a full explanation for each deviation must be presented with the bid and be supported by the supplying manufacturer’s literature, statement, or a professional engineer’s opinion as to how the deviation-from-standard impacts or does not impact any particular specification.
2. Include all applicable manufacturers’ literature on item bid.

B. GENERAL PROVISIONS

It is the intent of these specifications to describe NEW, current model year, standard production MSW transport trailers. The Authority reserves the right to refuse any and all bids submitted if in the opinion of the Authority the bid does not meet the intent of the bid specifications or the bid price is unacceptable. The Authority reserves the right to negotiate modifications to bids it deems acceptable, reject any and all bids, and to waive minor irregularities in the procedures.

C. REJECTION

Ambiguous bids which are uncertain as to terms, delivery, quantity, or compliance with specifications may be rejected or otherwise disregarded if such action is in the best interest of the Authority. The Authority has the right to make amendments up to 72 hours prior to bid opening. The Authority will maintain the latest bid version on its website, www.trswa.org. It is the potential proposer's responsibility to submit a proposal based on the latest version of the RFP. Failure to have the correct or an incomplete Request for Proposal package could result in proposal rejection.

D. AWARD CRITERIA

Bids shall be awarded to the lowest responsible and responsive bidder whose bid meets the requirements and criteria set forth in the Invitation for Bids.

E. TERMS OF BIDS

All terms of bids submitted shall be binding for ninety (90) days from opening of bids.

F. DELIVERY AND PAYMENT

The supplier shall deliver the equipment to the Three Rivers Regional Landfill, SC Highway 125 South, Savannah River Site, Jackson, South Carolina, on or before June 13, 2011, unless otherwise agreed to by the Authority. If the equipment is not delivered within the specified time, the contractor must provide loaner equipment of similar size and design at no extra cost. All prices quoted shall include all transportation and set up charges to the Authority's Three Rivers Landfill. Equipment will be subjected to an acceptance inspection, and payment will be made thirty (30) days following the completion of such inspection, as certified by the General Manager. There will be a hold-back from such payment two times the value of the cost of replacing, providing, or repairing any specified deficient item(s).

The Authority is not subject to federal excise tax and may be eligible for additional government purchasing discounts.

G. BIDDER'S QUALIFICATIONS

Bidder must, upon request of the Authority, furnish satisfactory evidence of its ability to furnish the products or services in accordance with the terms and conditions of these specifications. The Authority reserves the right to make final determination as to the Bidder's ability to provide the products and services requested herein.

All equipment must be manufactured by a manufacturer of heavy equipment with essentially duplicate equipment that has been manufactured and in satisfactory operation for at least five years.

All equipment must be furnished by a manufacturer's authorized dealer with a minimum of five years experience in sales and service of heavy equipment.

Bidder must be the authorized manufacturer or dealer for the product bid, and must be a servicing dealer for all components of the equipment. Bidder must satisfy Authority that Bidder can provide a service representative within eight (8) hours and delivery of parts within twenty four (24) hours of receipt of parts order, or bidder may be disqualified by the Authority.

H. OPERATOR TRAINING

Bidder will provide on-site instruction for operation and preventive maintenance procedures for equipment at a date to be scheduled by the Authority. Following delivery of equipment, the services of the manufacturer's factory trained representative shall be provided at the landfill for purposes of this instruction. The manufacturer shall conduct a training program, including both classroom and "hands-on" training, for the Authority's personnel covering operation and preventative maintenance of the equipment. This time shall be in addition to any time required for delivery, inspection, testing, and adjustment of equipment. The Authority reserves the right to require the replacement of the manufacturer's representative who is providing operation and maintenance instruction if the services are found to be inadequate.

I. OPERATION AND MAINTENANCE MANUAL

Equipment shall be accompanied by all information, instructions and data necessary for the proper and complete care, operation, maintenance and repair of the equipment by the Authority's personnel. The required information, instructions, and data shall be prepared and compiled by the manufacturer of the equipment and shall hereinafter be referred to collectively as "equipment manuals".

Providing complete equipment manuals, as specified herein, for all equipment and accessories furnished by the Bidder/vendor is a part of this procurement and the Bidder/vendor is wholly responsible for obtaining acceptable equipment manuals from the equipment manufacturers and submitting them to the Authority. The Bidder/vendor shall supply a minimum of one (1) copy of the equipment manual and one (1) parts manual.

J. WARRANTY

The Bidder shall, as part of its proposal, furnish the manufacturer's warranty for all goods to be furnished hereunder. As a minimum, this warranty shall provide a one year warranty on the trailer, automatic tarping system, and walking floor. The supplier may perform warranty inspections every six months to verify that the equipment is being maintained in accordance with the warranty. These inspections will be performed at no extra cost. A written report of these inspections shall be submitted to the Authority.

K. FOR ADDITIONAL INFORMATION

Mr. Steven Woiczehowski
Three Rivers Solid Waste Authority
227 Gateway Drive, Ste. 213A
Aiken, SC 29803
803/652-2225, ext 25, wojo@trswa.org

All bids must be sealed and marked "**TRANSFER TRAILER BID**" and must be received at the above address by 2:00 p.m., April 18, 2011.

SPECIFICATIONS - WASTE TRANSFER TRAILER

1.0 INTRODUCTION

The purpose of these specifications is to delineate the requirements for purchase of waste transfer trailers for the transfer haul of municipal solid waste. The trailers will be expected to haul loads of twenty four (24) tons net weight. The trailers will be new, currently advertised, production models and will meet all standard features advertised in the manufacturer's current literature.

2.0 DEVIATIONS

Deviations to specifications may be submitted, providing bidder can supply acceptable rationale to support said deviations. Any deviations accepted will be at the sole discretion of Three Rivers Solid Waste Authority. Deviations to specifications must be noted and explained on the bid form attached to these specifications. If applicable, structural claims must be supported by a signed statement from a registered professional engineer.

3.0 CLASSIFICATION AND SCOPE

The trailer will be an aluminum open top, leak resistant, tandem axle semi-trailer with a Keith Running Floor II DX, that is designed to haul municipal solid waste. The entire trailer including the tailgate and walking floor shall be leak resistant.

3.1 CHASSIS

- 3.1.1 Chassis shall be full frame. The frame is to be 5" 6061-T6 aluminum "Z" beam, this rail to run from the dolly legs to the trailer rear minimum. Gussets are to be placed between all crossmembers and attached to the lower rail side. The crossmembers are to be aluminum extrusion 6061-T6 that are 5-1/2" height I-beam on 14" minimum spacing. Crossmembers over the landing gear area are to be 3/8" thick on 9" minimum spacing.
- 3.1.2 Axles shall be tandem, heavy duty, 25,000 pounds capacity on each axle, with heavy duty springs, commensurate to the weight of the loaded trailer, positioned for the best weight distribution with a minimum of 64 inches rear tandem setting.
- 3.1.3 Chassis shall have fifty (50) thousand pound suspension mounted on 3/16" x 10" minimum Hi-Tensile steel channel, 22 lbs. per foot minimum, subframe that incorporates w heavy duty rear pusher bumper. The bumper shall conform to all ICC and DOT regulations.

3.2 BRAKES

Brakes shall be anti-lock brakes with full air service brakes with largest available outboard mounted drums, self adjusting slack adjusters. Air brake connectors shall be equipped with "glad hand" type connectors for air brake lines. These connectors shall be mounted in a convenient location on each side of hydraulic lined connectors on front of trailer. Brakes shall meet all current and proposed ICC and DOT rules, regulations, and safety laws.

3.3 WHEELS - TIRES

White painted steel wheels-rims to be ten (10) hole disc type and be a hub piloted type. Tires shall be Michelin XZE 11R22.5, 16 ply or equal. Mud flaps shall be anti-sail type

3.4 KINGPIN-LANDING GEAR

3.4.1 Kingpin shall be heat treated, 2-7/8" diameter, and set for proper distribution of G.C.W.R. (36"). Kingpin plate shall be a minimum of 3/8" Hi-tensile steel and sufficient drain holes and the assembly to be bolted in for easier maintenance.

3.4.2 Landing gear shall be Holland Mark V two speed or equal with road side crank, sand shoes included, 220,000 pound static capacity, 50,000 pound lift capacity with a minimum of seven years warranty. Steel tubing to be added from the center of the landing gear for both sides, angled up and attached to the lower side rail, and attached to the back side of the landing gear and attached and secured to an aluminum plate in the center of the trailer between the dolly legs.

3.5 ELECTRICAL

All electrical lighting, reflectors and required safety equipment shall meet or exceed the Federal standards. This includes but is not limited to mid-span turn indicator, tail, stop, flashers, turn indicator, clearance lights, lighted license plate holder and reflectors on each side. All lights and reflectors shall be of the armored type, to be flush mounted or otherwise protected by their location. All wiring shall be protected and serried to prevent chafing. A 7-way female connector for supplying current to trailer lights shall be installed in convenient location on the front of the trailer. The wires to be attached to the connector as marked on the connector itself.

3.6 BODY

- 3.6.1 Body shall be aluminum type 5454-H34 or stronger with side stiffeners and floor sills. Body shall have a minimum capacity of one hundred five (105) cubic yards.
- 3.6.2 Body dimensions shall be a minimum of: overall length of not more than 48 feet, maximum overall width of 102", maximum inside width of 93 ½", overall height not to exceed 160", maximum inside height of 104". Coupler height shall be 50", kingpin setting 36".
- 3.6.3 Sidewalls shall be minimum 5/32"-5454-H34 hollow panel aluminum extrusion and construction shall be full seam welding to top and bottom rail. Vertical side posts shall be extruded into sidewalls on minimum 3½" centerlines.
- 3.6.4 Top rail shall be extruded 6061-T6 continuous one piece. Cannot be welded to attain proper length. Top rail dimensions shall be minimum 5"x 5" x 5/8" top and ½" sides, 6061-T6.
- 3.6.5 Bulkhead shall be minimum .190" thick 5454-H34 with vertical braces and wraparound design.
- 3.6.6 Center bar and rear bar cross members shall be 2"x 4" x 3/8" tubing bolted to top rail, middle and rear.
- 3.6.7 Tailgate to be gate within a gate type, minimum 3/16" 5454-H34 hollow panel aluminum extrusion and construction shall be full seam welding. The inner airgate shall have dimensions approximating 80 inches tall by 88 inches wide, with a minimum of 10" on all sides to the outside dimensions of the tailgate, and continuous piano style hinges, on passenger side with stainless steel pins. The inner airgate shall have a latch on the inside passenger side of trailer. The outer gate shall have a minimum of four (4) aluminum cast hinges, minimum 5" tall, on passenger side with stainless steel pins. Hinges and latches shall have zerk grease fittings, with one safety winder attached on latch side. Security chain with chain holder to keep gate open during unloading.
- 3.6.8 Maximum empty weight of trailer shall not exceed 18,000 lbs.

3.7 WALKING/LIVE FLOOR

- 3.7.1 Hydraulic System: (6) Cylinders with 3" diameter bore, 1.771" OD x 1.125" ID 1045 induction hardened (50 Rc minimum and 10 RMS finish) piston rods with 10" stroke. Each unit of (2) cylinders is connected at the base of each cylinder. All hydraulic lines on the drive unit must be steel hydraulic tubing (no hoses). Each piston shall have 2 piston seals with heavy duty back up rings and a high strength Orkot wear ring. Each cylinder head shall have 2 loaded rod wipers, 1 high strength Orkot wear ring and one energized rod seal with heavy-duty backup ring.
- 3.7.2 Mounting: Hydraulic drive mechanisms must be mounted in a center frame that is attached to the trailer suspension sub-frame, or is a continuation of the suspension sub-frame.
- 3.7.3 Drive Mechanism: The hydraulic cylinder shafts must be attached to the frame with (4) 5/8" bolts and will remain stationary. The 2" x 6" cross drives are clamped directly to the hydraulic cylinder barrels. The cylinders on each cross drive must be independently removable and interchangeable.
- 3.7.4 Bearings: Each cross sill shall have high-density polyethylene bearings attached to it. Minimum bearings surface 15.45 square inches each (9.07 square inches on the top of the bearing, 3.19 square inches on each side of the lower portion on the cross sill). The two tabs on each side of the cross sill that hold the bearings in place are at least 1.5 inches in length. These bearings shall be installed on all accessible cross members of the trailer.
- 3.7.5 Cross Drives: Are supported by UHMW (ultra high molecular weight) polyethylene strips on a support rail attached directly to the frame.
- 3.7.6 Flooring Extrusions: Shall be extruded from 6061-T6 aluminum on 3.65" centers with a side slot to accommodate a poly seal. Floor specification shall be; An Impact medium duty floor slat **KMC-2299**; Top of each floor slat to be .188" minimum thickness with two .375" wide x .500" overall thick outside ridges, one .907" wide x .500" ridge in the center.
- 3.7.7 Floor Bolts: Each floor extrusion shall be secured to the drive mechanism with (6) minimum 5/16" x 1" Allen type counter sunk bolts, grade 8 with self-locking nuts.
- 3.7.8 Sub-deck & Slat hold-down: The floor sub-deck tubing shall be 1" x 1" square steel tubing or aluminum channel. A **UHMW** Slat hold-down block # **4767401** is to be mounted at the discharge end of each floor slat.

3.8 MISCELLANEOUS

- 3.8.1 Pusher type rear ICC approved bumper shall be installed with two (2) tow hooks.
- 3.8.2 State inspection certificate holder is required and mounted on the front of the trailer.
- 3.8.3 Trailer to have one ladder on rear.
- 3.8.4 Trailer shall be equipped with two (2) hydraulic quick disconnects.
- 3.8.5 Electrical, hydraulic, and air lines to be color coded or otherwise identified and properly secured.
- 3.8.6 Minimum 3" by 6" access panel for hydraulic lines.
- 3.8.7 Hydraulic hoses minimum 9 feet long, 1 inch diameter, rated for 3200 psi.
- 3.8.8 Pressure guard air system installed on both axles.

AUTOMATIC TARPING SYSTEM

3.9 FRAME ASSEMBLY

Frame shall be constructed of 2" by 2" galvanized steel tube.

3.10 TARP

Tarp shall be lightweight, polypropylene dense weave tarp fabric, UV protected.

3.11 FINISH

All steel components must be finished with a two part alkyd enamel primer and a two part alkyd enamel.

3.12 WARRANTY

Manufacturer shall supply a one year warranty on all parts and labor for manufacturing defects.

3.13 ACTUATOR

- 3.13.1 Actuator assembly powers the rotator arm 270 degrees moving tarp from top of trailer to flush against side of trailer without the use of springs or chains. Assembly mounts to the front of the trailer. Tarp hinges from passenger side.
- 3.13.2 Actuator assembly is powered by a standard self-contained 12 volt (DC) hydro-electric power unit mounted to bolt on brace attached to actuator.
- 3.13.3 Hydraulic assembly protected by aluminum wind deflector.
- 3.13.4 One touch operation of actuator assembly

3.14 HINGE ASSEMBLIES

- 3.14.1 Tarping system will hinge from the trailer's passenger side.
- 3.14.2 There are a minimum of four hinges assemblies
- 3.14.3 The overall tarp and hinging assembly shall not exceed 3" above the top of the trailer.

3.15 MISCELLANEOUS

- 3.15.1 Electrical, hydraulic, and air lines to be color coded or otherwise identified and properly secured. Electric attachment shall be the "gray" 1 3/4" style.
- 3.15.2 Total system weight does not exceed 400 pounds.
- 3.15.3 A cable runs the length of the tarp to snugly cover loads even when loads are peaked and uneven.
- 3.15.4 Equipment shall be accompanied by all information, instructions and data necessary for the proper and complete care, operation, maintenance and repair of the equipment by the Authority's personnel

3.16 WARRANTY

Manufacturer shall provide a one year warranty on all parts and labor concerning manufacturing defects for the trailer, the walking floor, and the automatic tarping system.

MINIMUM SPECIFICATION CHECK LIST

	<u>Meets/Exceeds</u>	<u>Doesn't Meet</u>
Bidder has a South Carolina Service representative	_____	_____
Delivery by June 3, 2011	_____	_____
Price guaranteed ninety (90) days	_____	_____
The following specifications as listed in the IFB:		
3.0	_____	_____
3.1.1	_____	_____
3.1.2	_____	_____
3.1.3	_____	_____
3.2	_____	_____
3.3	_____	_____
3.4.1	_____	_____
3.4.2	_____	_____
3.5	_____	_____
3.6.1	_____	_____
3.6.2	_____	_____
3.6.3	_____	_____
3.6.4	_____	_____
3.6.5	_____	_____
3.6.6	_____	_____
3.6.7	_____	_____
3.6.8	_____	_____
3.7.1	_____	_____
3.7.2	_____	_____
3.7.3	_____	_____
3.7.4	_____	_____
3.7.5	_____	_____
3.7.6	_____	_____
3.7.7	_____	_____
3.7.8	_____	_____
3.8.1	_____	_____
3.8.2	_____	_____
3.8.3	_____	_____
3.8.4	_____	_____
3.8.5	_____	_____
3.8.6	_____	_____
3.8.7	_____	_____
3.8.8	_____	_____

MINIMUM SPECIFICATION CHECK LIST
(continued)

	<u>Meets/Exceeds</u>	<u>Doesn't Meet</u>
3.9	_____	_____
3.10	_____	_____
3.11	_____	_____
3.12	_____	_____
3.13.1	_____	_____
3.13.2	_____	_____
3.13.3	_____	_____
3.13.4	_____	_____
3.14.1	_____	_____
3.14.2	_____	_____
3.14.3	_____	_____
3.15.1	_____	_____
3.15.2	_____	_____
3.15.3	_____	_____
3.15.4	_____	_____
3.16	_____	_____

TRANSFER TRAILER BID FORM

COMPANY NAME: _____

ADDRESS: _____

PHONE #: _____ FAX #: _____

CONTACT NAME: _____ TITLE: _____

EMAIL: _____

SHALL FURNISH AND DELIVER THREE (3) TRANSFER TRAILERS
MAKE: _____ MODEL: _____

AUTOMATIC TARPING SYSTEM MODEL _____

AT THE FOLLOWING PRICES:

Unit Price Delivered	Tax	Total Cost
_____	_____	_____

LIST ALL ITEMS INCLUDED WITH UNIT PRICE: _____

LIST ALL SAFETY FEATURES ON THE UNIT: _____

WITNESS:

FOR COMPANY:

Signature

Signature

Print or type name

Print or type name

Title

Title

NOTICE DATE: March 25, 2011

OPENING DATE AND TIME: 2:00 P.M., APRIL 25, 2011

INVITATION FOR BID (IFB) FOR THREE (3) MSW TRANSFER TRAILERS WITH AUTOMATIC TARPING SYSTEMS

You are invited to submit a bid in accordance with the requirements of the above-referenced IFB.

It is required that your Bid be received by Three rivers Solid Waste authority (TRSWA) at its office located at 227 Gateway Drive. Suite 213, Aiken, S.C. 29803, no later than 2:00 p.m. local time, April 25, 2011.

FOR ADDITIONAL INFORMATION, contact:

Mr. Steven Woiczehowski
Three Rivers Solid Waste Authority
227 Gateway Drive, Ste. 213
Aiken SC 29803
803/652-2225, ext 25, wojo@trswa.org

All bids must be sealed and marked “**TRANSFER TRAILER BID**” and must be received at the above address by 2:00 p.m., April 25, 2011.

This solicitation does not commit TRSWA to award a contact, to pay any costs incurred in the preparation of any proposal or to procure or contract for service.