

NOTICE OF BID

The City of Pigeon Forge, Tennessee is receiving bids on Semi-automated/Automated carts to be used for residential or commercial garbage pick up.

Specifications may be obtained from the Public Works Department of City Hall.

Bids will be received until 2:00 p.m., March 21, 2017, at which time they will be opened and read aloud.

All bids must be in sealed envelope with bidders name and address on outside and marked "Bid on Semi-automated/Automated Carts."

The City reserves the right to reject any or all bids or to accept the bid most favorable to the City.

This 6th day of March, 2017.

Department of Public Works
Pigeon Forge, Tennessee

SPECIFICATIONS FOR SEMI-AUTOMATED/AUTOMATED CART OR EQUAL

Bidder shall complete every space, in the specification's bidder's proposal column, with a check mark to indicate if the item being bid is exactly as specified. If not, the "NO" column must be checked and a detailed description of the deviation shall be listed on a separate sheet (one deviation per sheet).

1. GENERAL DESCRIPTION: Yes_____ No_____

The mobile refuse container shall be designed to contain the average solid waste material accumulated by a household in one weeks time. The container shall carry a warranty of not less than ten (10) years, during which time it will be generally maintenance-free when properly used. The container shall be equipped with suitable wheels, lift bars, handle and general design so that it can be maneuvered, lifted and dumped by semi-automated lifting units.

2. QUANTITY: Yes_____ No_____

The successful bidder shall provide different quantities of containers based on need during the year. Price of container to include shipping cost. Bid price will be good for a 1 year period with the option of extending bid price for a 1 year period if City and winning bidder are in agreement.

3. DIMENSIONS: Yes_____ No_____

The exterior dimensions (approximate) of the completely assembled container shall be as follows:

Height----46" Length/Depth-----31"
Width-----28" Wheel Diameter---12"

4. WEIGHT: Yes_____ No_____

Weight of the completely assembled container shall be approximately 40 lbs.

5. COLOR: Yes_____ No_____

The container body, lid, wheels and all plastic components shall be gray or other color approved by City.

6. CAPACITY: Yes_____ No_____

The container capacity shall be 95 gallons level full, excluding additional volume achieved by crowned lid in the closed position. The lid, which shall be crowned and not flat, shall extend a minimum of two (2) inches upward from the lip of the container body, to allow sufficient overpack capacity. The container shall be capable of accommodating a load weighing up to 340 lbs., exclusive of the weight of the container. Upper front and side body walls shall be uniform in wall thickness from the ground to the gussets. Back body wall shall be straight from the wheel well to the gussets with uniform wall thickness. The container must have a reinforced wall thickness on the front wall of the container as well as additional internal support from the top of the lower bar to the bottom of the container.

7. INTERIOR CONSTRUCTION: Yes_____ No_____

The interior surface shall be smooth and free of crevices, recesses, projections and other obstructions where refuse could become entrapped or entangled. The interior construction and shape shall assure the free flow of solid waste contents from the container when dumped.

8. WIND STABILITY: Yes_____ No_____

The container shall have sufficient stability against winds. In independent laboratory wind tunnel test, the container should withstand winds up to 43 mph, with no reading below 15 mph.

9. PLASTIC MANUFACTURING PROCESS AND MATERIALS:

Yes_____ No_____

The containers and plastic container components shall be made from a blow molded manufacturing process. The polyethylene resin, which shall be 100% virgin material, shall meet the following ASTM test values (nominal):

ASTM D1693: Environmental Stress Crack Resistance.1000 hrs.

ASTM D638 Type IV: Tensile Strength 3600 PSI

ASTM D638 Type IV: Elongation 820%

ASTM D790: Flexural Modulus 185,000 PSI

The container shall have a minimum wall thickness of .175 inch.

10. CONTAINER PICK UP POINTS: Yes_____ No_____

The container shall be equipped with pick up points to engage the container on the lifting device and dump the container contents. All pick

up points shall be modular design so as to insure low cost repair in case of failure due to overloading and/or other container misuse. All pick up points shall be attached by bolts or similar attachment method to protect the container body. Pick up bars shall not be imbedded in the container nor shall container recesses be used as pick up points. The container body shall be warranted on a non-prorated 100% replacement basis for the 10 year warranty period against any cracks or splits in the container body which render the container inoperable that arise from failure of any pick up points shall be constructed of 14 gauge, 1 inch O.D., tubular steel with corrosion-resistant zinc-plating to protect against detrimental red rust. Accompanying hardware (i.e., nuts, bolts, etc) shall also have similar corrosion-resistant plating.

11. LID AND HINGE: Yes_____ No_____

The lid and hinge shall be of a one-piece design. The hinge shall be an integrally molded part of the lid configuration to insure security and low maintenance. When opening lid manually hand should not come in contact with front base of lid.

The lid shall be designed so as to operate with one hand. The container must maintain stability when the lid is opened and rotated to the fully opened position.

The lid shall be designed to enable free and complete flow of refuse from container during dumping cycle.

The push handle, used to grip and maneuver the container, shall be an integrally molded part of the lid/hinge assembly for security and convenience of repair if needed. Hinges shall be test-rated to 900 pounds pull strength.

12. WHEELS AND AXLE: Yes_____ No_____

Each container shall be equipped with an axle and two wheels. The wheels and axle shall be designed so as to provide the specified wind stability. The axle shall be groove-mounted so as to maintain the waterproof nature of the container.

The wheels shall be 12 inches in diameter and 1.75 inches wide and shall Wheel bearings shall be self-lubricating. Wheels shall be semi-pneumatic.

The axle shall be solid steel, minimum diameter of 5/8 inches, and plated for corrosion resistance.

Wheel retainers shall provide for the secure attachment of the wheels and shall not be easily removed with ordinary tools.

13. POINT OF MANUFACTURE: Yes_____ No_____

The Bidder certifies a sub-contractor or out of house control, will not manufacture container body or lid.

If Bidder is a distributor or dealer, then the Bidder must include a statement from the manufacturer that owns the brand, that all container bodies and lids will be manufactured by its own majority owned plants and not subcontracted.

Describe any sub-consultants to be used. Subcontracting of any portion of this purchase is absolutely forbidden without first obtaining prior written consent from the Sanitation Supervisor.

14. ULTRAVIOLET INHIBITORS: Yes_____ No_____

The container shall be stabilized against ultraviolet rays by an additive to the plastic resin of one-half (1/2) of 1% of U.V. 531 or equal.

15. MARKINGS: Yes_____ No_____

The city's name shall be permanently molded into the front of the container. The container shall have the following indications and contraindications molded into the lid.

DO: Close lid before moving.
Place at curb or designated area for collection by 6 am on day of collection.
Handle with care on inclines, slope or steps.
Wash out periodically with water.
Keep lid closed on container.

DO NOT: Do not overload container.
Do not use for hot ashes, solvents, paints flammable liquids or other hazardous materials.
Do not drag cart.
CAUTION: Do not allow children to play in, on or around cart.

Container load rating shall be molded into lid in pounds.

Container capacity shall be molded into lid in gallons.

The words "**FACE ARROWS TOWARD STREET**" (with an arrow on each side pointing **away** from the container handles) shall be hot stamped on the lid in white block letters.

Illustration with the words "Refuse Only" and "Place 3 feet apart at curb" with an arrow and two containers shall be hot stamped in white block letters on the lid.

16. SERIAL NUMBERS: Yes_____ No_____

All containers shall have serial numbers hot-stamped in white on the side, of the container body that will not run or fade, to facilitate and control distribution and record keeping. The City shall specify numbers.

17. DELIVERY AND DISTRIBUTION: Yes_____ No_____

The containers will be delivered to one point. The containers shall be assembled except for lids and wheels.

18. REPLACEMENT PARTS: Yes_____ No_____

The bid submitted shall guarantee the continuous availability of parts over the ten-year period. A parts price list shall be submitted with the bid and these prices shall be guaranteed for a one-year period from date of delivery.

20. WARRANTY: Handled separately. Yes_____ No_____

21. ABRASION PROTECTION: Yes_____ No_____

Containers shall be equipped with replaceable wear pads on the bottom of the container for protections against abrasion during extended use.

22. RECYCLABLE PLASTIC: Yes_____ No_____

The container and lid shall be constructed of 100% recyclable material.

21. REFERENCES: Yes_____ No_____

Bidder shall supply a list of 5 users of container bid. Users shall be cities, counties or private collection companies within the State of Tennessee.

22. EXPERIENCES: Yes_____ No_____

Model bid shall have been in continuous production for at least 5 years.

23. TOOLS: Yes_____ No_____

Any specialty tools needed to replace or repair lids and wheels supplied with each load.

BID SHEET

Bidder: _____

Contact: _____

Address: _____

Phone: _____ Fax: _____

Email: _____

Bid Price Per Cart: _____

Delivery Time After Order Placed: _____

Signature

Date