

PRODUCT SPECIFICATIONS

95 Gallon Universal Roll Out Carts

The specifications herein describe the minimum acceptable features and performance requirements for universal refuse carts. Bidders must thoroughly read and understand these specifications prior to proposal submission. All proposals must be submitted on City of Goodlettsville forms provided. Bidders shall complete the specification column with a check mark to indicate if the item being proposed by the Bidder is exactly as specified. If an item is left blank, City of Goodlettsville will assume the Bidder cannot meet the specifications and may cause rejection of the proposal. By checking any of the "NO" spaces the Bidder states that the product being proposed does not conform to that specification. All variations and/or exceptions must be documented, referencing applicable paragraph(s), and explained in detail on a separate page titled "Exceptions". If City of Goodlettsville determines by any means that exceptions exist which were not identified on such list, then that proposal will be disqualified as being non-responsive. If no exceptions are taken, it will be assumed that the proposal meets all specifications. If awarded, the successful bidder must only deliver the container or containers that are proposed with this bid submission. Failure to provide the exact container specified will disqualify said bidder. Failure to provide a sample container at the City's request within 5 days will be subject for disqualification of the said bidder.

1. MANUFACTURING PROCESSES AND MATERIALS

Each universal roll out cart shall consist of a body, lid, wheels, axle and necessary accessories. The plastic resin material and the finished container must meet the minimum specifications herein.

Description	Yes	No
<p>MANUFACTURING PROCESS: Each container and lid must be made from the injection-molded process only.</p>		
<p>PLASTIC MATERIAL: Base plastic resin for the cart body and lid must be first quality high-density polyethylene (HDPE) supplied by a national petrochemical producer such as Dow Chemical or Exxon Mobil. Off-spec or wide spec material and dry blending of material is not acceptable.</p> <p>The bidder must submit technical data sheet(s) from the resin producer.</p>		
<p>RESIN ADDITIVES: The plastic resin must be enhanced with color pigment and ultraviolet inhibitor, which must be uniformly distributed throughout the finished container.</p> <p>All plastic parts shall be specifically prepared to be colorfast so that the plastic material does not alter or fade appreciably in normal use. Containers must be manufactured using a hindered amine light (HAL) stabilizer package, which maximizes light stable color pigments, ensures for minimal degradation, and protects the plastic resin at the chemical level. The container shall be protected against ultraviolet rays with an ultraviolet stabilizer additive with no less than one and one half percent (1.5%) by weight.</p> <p>The bidder must submit a statement certifying that all of the plastic resin and additives will be hot-melt blended.</p>		

<p>RECYCLE ABILITY: The bidder must include with the bid any option for the repurchase/recycling of containers at the end of their useful life. Preference will be given for bidders that operate and own their own recycling division within their company where multiple streams of plastic can be recycled beyond just old/damaged carts. Does the bidder own and operate their own recycling division within the company?</p>		
<p>REDUCING CARBON FOOTPRINT: The Bidder must include in their bid submission documentation where the containers will be produced. In an effort to support sustainable goals, preference will be given to bidders who have an in state manufacturing facility or who can show considerable evidence of reducing the carbon footprint in transportation of the containers to City of Goodlettsville.</p> <p>STATE THE MANUFACTURING LOCATION OF ALL CONTAINERS REQUESTED IN THIS BID: _____</p>		
<p>TESTING: At the request of City of Goodlettsville sample carts may be tested and put through a series of rigorous real world tests to simulate daily use. It will be at the discretion of City of Goodlettsville to the tests performed and a testing committee will review the performance of each cart. Failure to pass all portions of the testing could result in disqualification of the bidder. Does the bidder accept the testing requirements stated in this bid?</p>		

2. CONTAINER REQUIREMENTS

The universal roll out carts must be compatible with standard American semi-automated bar-locking lifters (ANSI type B) as well as automated arm lifters (ANSI type G) and function as follows:

Description	Yes	No
<p>ANSI CONFORMANCE: Containers proposed herein must meet the requirements of ANSI Z245.30 and ANSI Z245.60 standards for "Type B/G" containers.</p> <p>The bidder must submit independently certified copies of all ANSI test results with proposal. Test results must state load (in pounds) under which tests were conducted. The ANSI Appendix D test for "Loading and Unloading Test for Carts" must clearly state that the required 520 dump cycles under the cart's full rated load were performed on both a Semi-Automated Cart Lifter and a Fully Automated Grabber Arm.</p>		
<p>INTERIOR CONSTRUCTION: The interior surface must be smooth and free from crevices, recesses, projections, and other obstructions where material inside the containers could become trapped.</p>		
<p>STABILITY: Each container shall be stable and self-balancing when in the upright position, either loaded or empty. The container must be designed to withstand winds averaging 35 mph when empty (based on the average wind resistance of the four sides of the cart).</p>		

<p>LIFT SYSTEM: Each container shall be equipped with attachment points, which make it compatible with standard American semi-automated bar-locking lifters and fully-automated arm lifters. The upper lift point must be integrally molded into the body of the container with no less than (7) seven support ribs under the lifting pocket for 95 and 65 gallon containers. The lower metal bar of 95 and 65 gallon containers must come pre-installed from the manufacturer, must be designed to withstand over ten (10) years of lifter attachment, and must be a 1" diameter galvanized free floating steel bar. The length of the bar must not exceed 9½ inches. The steel bar must be held in place by pre-installed latch/push pins. The latch/push pins must be located on the inside of the cart to avoid interaction with the cart tippers. Latch/push pins placed on the outside of the cart are unacceptable. The lower bar cannot be attached by means of screws, bolts, fasteners, pins, etc. Containers with bolted-on lower bars are NOT acceptable.</p>		
<p>ABRASION PROTECTION: The containers must be designed with a double drag rail on the container bottom. The container base must be reinforced in the area that contacts the ground with a molded-in wear strip</p>		
<p>RIM OF BODY: The top of the container body shall be molded with a reinforced rim to add structural strength and stability to the container and to provide a flat surface for lid closure. This reinforced rim shall have a raised inner perimeter to serve as a barrier to escaping odors, intrusion of pests, and to prevent moisture from entering the cart from under the edge of the lid. The rim of the cart must not be designed to have an inward radius to obstruct free flow emptying of material out from the container.</p>		
<p>LID: The lid shall be of one piece construction, injection molded of high density polyethylene resin (HDPE) and must be manufactured of the same material as used in the cart body. The lid shall be configured to ensure that it will not warp, bend, slump, or distort to such an extent that it no longer fits the container properly or becomes otherwise unserviceable. The lid must be crowned in shape and designed to disallow entry of rain when in the closed position. The lid must open from a closed position through a full 270° arc and hang open without stressing the lid or container body. Living hinges and lid counter weights are unacceptable. The manufacturer may not attach lids to containers using metal hinges, brackets/bolts and/or screws, metal bars, PVC, plastic glued connections, or any hidden bars. Lid attachments must be constructed of weather resistant plastic only. Attachments must be easily installed during cart assembly and uninstalled during cart disassembly. Lid must be capable of being imprinted with a custom hot stamp, heat transferred label, or in-mold label technology. Lid attachment hinge must be no less than 1.25" in width.</p> <p>STATE LID HINGE ATTACHMENT WIDTH: _____ inches</p>		
<p>HANDLES: Each container must be equipped with a handle that is a minimum of 1" diameter. The handle and handle mounts must be an integrally molded part of the container body. The handle shall be designed to afford the user positive control of the loaded cart at all times. The handle must not have the ability to rotate on its own axis at any time. Handles that are molded as part of the lid are unacceptable. Bolted-on handle mounts or bolted-on handles are unacceptable.</p>		

AXLE: The axle must be a minimum of 3/4" diameter, high strength steel fully supported by cart body. Zinc chromate plated or powder coated equivalent for corrosion protection. Axle must slide through at least (4) four molded-in plastic journals in the cart bottom and must not be exposed to contents inside of container. There must also be (2) two half journals molded into the bottom of the container for the axle to slide through to ensure proper weight distribution of the contents of the cart. Axles attached by means of bolts or rivets are unacceptable.		
EASE OF ASSEMBLY AND DISASSEMBLY: The bidder must supply a container assembly instruction sheet with their response. The instruction sheet should include a list of container parts and a list of tools needed for assembly.		
PARTS AVAILABILITY: All bidders will supply a listing of replacement parts available for their model container.		
COLOR: Containers must be a distinctive color impregnated into the plastic. Painted universal recycling carts are unacceptable. City of Goodlettsville and chosen vendor will mutually determine color(s).		

3. CONTAINER SPECIFICATIONS – 95 GALLON

The container offered must be 95 gallons (+/-3%) and must comply with the following listed specifications:

Description	Yes	No
<p>LOAD RATING: The 95-Gallon container must be designed to regularly receive and dump the following pounds of recycled materials, excluding the weight of the container, without permanent damage or deformation. The load rating must conform to ANSI Standard Z245.30.</p> <p style="text-align: center;">95-Gallon – minimum 332 pounds</p> <p>STATE LOAD RATING OF CONTAINER: _____ pounds</p>		
<p>MANEUVERABILITY: To ensure that the proposed 95-gallon container is easily operated by the citizens of City of Goodlettsville, the bidder must state the average tipping forces required to maneuver a fully loaded container when tilted to the roll position. The bidder must also submit documentation that conforms to ANSI Z-245.60 Force To Tip testing that clearly defines the container's maximum average tipping force. The results of this testing may not exceed a maximum average of 77 pounds. Any container that is judged as too difficult to tilt when loaded to maximum capacity of material will be disqualified.</p> <p>STATE MAXIMUM AVERAGE FORCE: _____ pounds</p>		
<p>RESIN WEIGHT: The quoted container must be manufactured to achieve a minimum resin weight of the following:</p> <p style="text-align: center;">95-Gallon – minimum 34 pounds</p> <p>STATE RESIN WEIGHT OF CONTAINER: _____ pounds</p>		

<p>WALL THICKNESS: The quoted container must have a nominal wall thickness of .175 inches throughout the body of the container and a minimum wall thickness of .185 inches in the critical wear points (i.e. cart bottom, handle and lift mechanism). The minimum wall thickness of the lid must be .140 inches.</p> <p>STATE BODY WALL THICKNESS: _____ inches STATE CRITICAL WEAR POINT THICKNESS: _____ inches STATE LID WALL THICKNESS: _____ inches</p>		
<p>CAPACITY: The total capacity of the container body, excluding the lid, must be a 95 U.S. gallons (+/- 3%). Bidder must include an independent test result according to ANSI Z245.30, Appendix A (Volume Test), certified by an accredited professional engineer, showing the exact capacity of the cart body (to the nearest 0.1 U.S. gallon).</p> <p>STATE TOTAL CAPACITY: _____ gallons</p>		
<p>DIMENSIONS: The minimum exterior dimensions of the completely assembled container are as follows: HEIGHT: 45.00 inches DEPTH : 33.00 inches WIDTH : 28.50 inches</p> <p>STATE HEIGHT: _____ inches STATE DEPTH: _____ inches STATE WIDTH: _____ inches</p>		
<p>WHEELS: Wheels shall be minimum 10" in diameter and 1.75" wide with knobby treads. Wheels must be extra high molecular weight polyethylene capable of supporting a minimum of 200 lbs. Wheels must be snap on style wheels. Wheels that require the use of pal nuts, washers or other means of connection will be considered unacceptable.</p>		
<p>NUMBER OF PARTS: In order for ease of assembly and parts inventory, City of Goodlettsville is requesting the bidder to state the number of separate parts that comprise each container to include but not limited to; lid, body, wheels, axle, catch bar, rivets, lid fastener components, etc. A maximum of 8 parts is preferred.</p> <p>STATE NUMBER OF SEPARATE PARTS: _____</p>		

4. MARKINGS

Each container must be permanently marked with letter/numbers, as follows:

Description	Yes	No
<p>SERIAL NUMBER BAR CODES: Each container must have a bar code and associated serial number branded in white on the front face of its body. The final serial number bar code shall be determined by City of Goodlettsville, but will contain 8-9 alphanumeric digits. Adhesive or sticker serial number bar codes are not acceptable.</p>		
<p>CONTAINER LOGO: The City of Goodlettsville logo shall be affixed by hot stamp onto both sides of the cart body.</p>		

USER INSTRUCTION: Instructions for the safe use of the container must be molded into each lid. Instructions shall be approved by City of Goodlettsville.		
LOAD RATING: The load rating of the container must be raised-relief molded into the lid. Load rating shall be stated in both pounds and kilograms.		

5. EXPERIENCE/COMPLIANCE

The bidder must adhere to following experience qualifications:

Description	Yes	No
CART EXPERIENCE: The bidder must have at least (10) ten years of experience in the USA of continuous production/manufacturing of containers for use in automated and semi-automated collection systems. STATE YEARS OF EXPERIENCE: _____ years		
REFERENCES: Bidder must submit with its bid a reference list of municipalities currently using the proposed products in this bid. The list must include at least ten (10) municipalities who currently have at least 60,000 carts in service. Include the name of the municipality, year of installation, contact person, phone number, and quantity for each reference. Failure to include these references will result in bid disqualification.		

6. WARRANTY

The bidder must submit with its proposal a warranty specimen of the exact warranty offered for the universal refuse carts. The warranty must be for no less than ten (10) full years and must specifically provide for no-charge replacement of any component parts that fail in materials of workmanship for a period of ten (10) years after installation. The transportation costs of sending the warranty carts to City of Goodlettsville must be assumed by the bidder. Also, the warranty extends only to the first purchaser of containers. The Bidder's warranty is understood to include, whether stated in Bidder's warranty or not, the following coverage:

Description	Yes	No
Failure of the lid to prevent rainwater from entering the container when in the closed position.		
Damage to the container body, lid or any component parts through opening or closing the lid.		
Failure of the lower lift bar from damage during interface with standard ANSI approved lifting devices.		
Failure of the body and lid to maintain their original shape.		
Damage or cracking of the container body through normal operating conditions.		

Failure of the wheels to provide continuous easy mobility as originally designed.		
Failure of any part to conform to minimum standards as specified herein.		
If bidder is owned by another business entity, then the owning entity must also accept full financial responsibility for the warranty of the bidder. The bidder must submit with their bid a letter from the owning entity which clearly states its obligation and commitment to honor the warranty of the bidder, should the bidder ever be in a position to not do so. Such letter shall be signed by the owning entity's top officer and notarized.		

7. PRICE ADJUSTMENTS

Prices quoted in response to this Bid solicitation shall be firm for the first 90 days of the contract period. After 90 days, prices may be subject to revision and such changes shall be based on resin fluctuation during that period. Should the market price of resin increase or decrease from the initial unit bid price, the increase/decrease will be passed on to City of Goodlettsville 30 days following the bid opening and throughout the term of the contract. There will be no more than one (1) price adjustment per quarter. Request for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance from City of Goodlettsville before becoming effective. Proof of the validity of a request for a price change shall be the responsibility of the successful bidder. Upon request, the responsible bidder shall provide to City of Goodlettsville certified documentation from Chem Data Report and/or Plastic News that may also be utilized by the successful bidder to validate its request for a price change. City of Goodlettsville reserves the right to accept or reject any price increase(s) and to cancel any and all item(s) under the contract for which price increase(s) is/are considered unacceptable. Contract extensions will be based on a mutual written agreement between the successful bidder and City of Goodlettsville.

Yes	No