



August 1, 2024

**STATE OF ALABAMA
COUNTY OF SHELBY**

SEALED BIDS – LANDFILL SCALES

Sealed bids for **LANDFILL SCALES** for use by the Shelby County Landfill will be received in the office of the Chief Financial Officer, Shelby County Administration Building, 200 West College Street, Room 125, Columbiana, Alabama 35051 (**MAILING ADDRESS: 200 West College Street Room 125, Columbiana, AL 35051**) until 2:00 P.M., August 13, 2024 at which time bids will be opened publicly and read. The County Commission reserves the right to reject any or all bids and to waive informalities in awarding this bid to the lowest responsive bidder. Bidders are to state that bids submitted are firm and that no claims for errors will be made after bids are opened and subsequent thereof. Any entity of Shelby County Commission may purchase from this bid. If you have any questions concerning bid specifications, please contact Gina LeCroy at rlecroy@shelbyal.com.

GENERAL INFORMATION

Shelby County Commission requires a 10% bid bond or bank certified check on **any bid exceeding \$10,000.00**. Company checks that are not bank certified **will not** be accepted as bond. Bid bond based on the total bid amount.

All bidders **must** use our form for submitting their bid. Bidder must submit a unit price summary along with the bid form. Bidder must note any exceptions to bid specifications on a separate sheet of paper and attach exceptions to quotation. Approved equals must be submitted and approved prior to bidding. All bids must be sealed and marked in the lower left-hand corner **"LANDFILL SCALES" with opening date and time. Late bids will not be opened. Bids will not include State Sales Tax or Federal Excise Tax.**

Bid price submitted shall include price "DELIVERED, INSTALLED AND SETUP" (including surcharges, shipping charges, etc.)

Records showing successful bidder(s) and prices quoted will be placed on file and may be examined upon request. If contract is awarded to someone other than lowest bidder, a note of explanation will appear in the bid file and Commission Minutes. Use of trade names and numbers shall be interpreted as establishing a standard of quality and shall not be construed as limiting competition.

DISQUALIFICATION OF BIDS

Bids may be disqualified before awarding of the contract for any of the following:

1. Failure to mark envelope as required.
2. Failure to sign or notarize the bid document.
3. Failure to include requested information for other details of the bid; or
4. Failure to include bid bond.

NOTICE: If mailing bid, please note the mailing address noted in the first paragraph of this letter.

METHOD OF AWARD

The award will be made to the lowest responsive bidder meeting specifications. It is not the policy of the Shelby County Commission to purchase on the basis of low bid only. Quality, conformity with specifications, purpose for which required, terms of delivery, and past service and experience are among the factors that may be considered in determining the responsive bidder.

The Shelby County Commission reserves the right to award separate contracts for each item, each product, or any combination of products if in the best interest of the Shelby County Commission. Upon awarding of this contract and bid the Shelby County commission receives the sole right to end said contract at their sole discretion.

IMMIGRATION LAW

By signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.

OPEN TRADE

By signing this contract, vendor agrees that it is not currently engaged in, nor will it engage in, any boycott of a person or entity based in or doing business with a jurisdiction with which the State of Alabama can enjoy open trade.

Please provide your bid response in triplicate, one original and two copies.

Bids will not include State Sales Tax or Federal Excise Tax.

Chad Scroggins
County Manager

Landfill Scales for the Shelby County Commission

1.0) Bid Purpose

Shelby County is in the process of installing a new Landfill scale house and seeks to purchase three (3) new landfill scales as a part of this project.

2.0) Scope/Statement of Work

Shelby County plans to install three (3) landfill scales as part of the new scale house construction project that is currently underway. The successful bidder shall be responsible for coordinating with the County and its general contractor building the scale house the delivery and installation of the new scales. This bid is for the scales and scales installation only. The construction of the scale house and scale foundations shall be performed by the County and its general contractor. The building and foundation plans can be furnished upon request.

All scales must meet or exceed specifications provided herein. Shelby County plans to install 2- attended scales and 1- unattended scale. Scales must have the capability to function using the owner supplied Paradigm, Compu Weigh, Weigh Station and Weigh Pay module software. Vendors are required to clearly identify any deviations from the following bid specifications. All equipment must meet or exceed current state of the art industry standards. Quality, reliability and performance of equipment are essential to our applications. Qualified repair service, parts and technical support must be available locally.

3.0) Performance Requirements:

- The scales are to be installed and tested and made operational within 90 days from the date the notice to proceed is issued.
- Awarded company must provide training and written documentation.
- Awarded company must have a support representative that is available to handle any issues or emergencies 24 hours a day, 7 days a week.
- Awarded company will execute an agreement with County detailing asset purchase, installation, maintenance and support services. Agreement will contain project timeline and service levels expectations as well as a payment schedule based upon project completion stages.

4.0) Specifications:

- Furnish and install three steel deck landfill scales and associated electronic controls. The specified scales shall be bid each and times three total as shown on the proposal form.
- The scale shall have a clear and unobstructed weighing surface of not less than 70 feet long and 11 feet wide.
- The scale shall have a profile not to exceed 14-1/2 inches, which is measured from the top of the scale to the top of the foundation slab or pier at the load cell bearing points.
- The scale shall be fully electronic in design and shall not incorporate any mechanical weighing elements, check rods, or check stays.

- The scale shall be designed to perform as a single weighing platform and shall be of flat-top design. Side rail support beams are not acceptable.
- The scale shall have a gross weighing capacity of 100 tons.
- The scale shall be designed to perform as a single weighing platform and shall be of flat-top design. Side rail support beams are not acceptable.
- Scale is to have bolt on type side rails on both sides of the scales. Side rails are to be supported by a total of four (4) side rail brackets per side, per module and shall be constructed from 2.5 inch O.D. x 0.25" wall, steel pipe. Pipe should be powder coated or hot dip galvanized. Side rails shall extend 11 inches above the scale deck.
- The scale shall have a Concentrated Load Capacity (CLC) of 100,000 pounds.
- The scale shall be designed to accept vehicles that generate up to 80,000 pounds per tandem axle.
- The scale shall be designed to accept an average daily traffic volume of up to 250 vehicles per day, 365 days per year, for 20 years, assuming that 100% of the vehicles are fully loaded with the equivalent of 80,000 pounds on their dual tandem axle.
- In order for the bid to be considered, the supplier must provide written confirmation of empirical testing data to validate the design of the weighbridge through actual life-cycle testing. During the testing process the weighbridge must see a minimum of 2 million cycles, with at least 80,000 pounds of test load, applied on the 8 contact points of a standard truck's dual tandem axle tires. This documentation must be provided with the proposal submittal. Failure to provide this information will result in the bid being considered non-responsive.
- The scale shall be calibrated to a minimum of 120,000 pounds by 20-pound increments and not to exceed 200,000 pounds. System configurations with increments greater than 20-pound increments will not be accepted; therefore scales with gross capacities in excess of 200,000 pounds will not be acceptable in order for the scale to meet NTEP Legal-for-Trade regulatory requirements.
- The scale's weighing-related electronics shall consist solely of load cells, load cell cables, and digital weight display. No other devices shall be permitted between the load cell and the digital weight display. Junction boxes, summing boards, gathering boards, gathering boxes, totalizers, external analog-to-digital converter boxes, and sectional controller boxes will not be accepted because of their significant and inherent maintenance issues.
- The load cells and load cell mounting hardware shall be constructed of stainless steel. The cables shall be stainless steel sheathed. Load cells which are not stainless steel and hermetically sealed shall not be acceptable because of their inability to prevent moisture from entering the load cell and causing a premature failure.
- The scale shall meet the requirements set forth by the current edition of the National Institute of Standards and Technology Handbook 44 (NIST HB-44). The scale manufacturer shall provide a Certificate of Conformance (NTEP Certification) to these standards upon request.
- The design and manufacture of the scale weighbridge, load cells, and digital instrument shall all be of one manufacturer to maximize compatibility and availability of components and to insure maximum benefit from the system's lightning protection capability. Also, the

manufacturer shall have a quality system that has been registered to the standards of ISO 9001.

- The scale shall be a METTLER TOLEDO Model VTS231 or approved equal.

WEIGHBRIDGE SPECIFICATIONS

- The scale weighbridge shall be constructed of three prefabricated scale modules each with a nominal surface dimension of 11' wide by 23'-4" long.
- The scale weighbridge shall be capable of weighing trucks that have dual-tandem axle weights (4 feet minimum between dual axles and at least 10 feet from next axle) of up to 80,000 pounds, and shall have a Concentrated Load Capacity (CLC) of 100,000 pounds.
- All welding shall be completed in accordance with the American Welding Society (AWS) D1.1 Structural Welding Code.
- All welding shall be performed by welding operators who have been certified to the AWS D1.1 Structural Welding Code.
- All welding shall be performed in position 1F to ensure maximum weld integrity.
- Longitudinal weighbridge members shall be welded continuously, using a high-penetration, submerged arc welding process. The use of intermittent or stitch welds on longitudinal members or deck tread plate is unacceptable.
- The weighbridge shall be designed to allow access to load cell cables, base plates, and all foundation anchor bolts from the top of the scale platform.
- The weighbridge and load cell mounting assemblies shall be designed to allow installation or replacement of a load cell with only one additional inch of clearance required between the top of the foundation and the bottom of the weighbridge on pitless installations.
- There shall be no bolted connections between the load cell and weighbridge assemblies.
- The load cell assembly shall be designed so that when you are at the scale weighbridge with a lifting jack, the load cell can be replaced in less than 5 minutes.
- There shall be no field welding required for the installation of the scale.

SURFACE PREPARATION AND FINISH

- The weighbridge shall be shot blasted to a minimum SSPC-SP6 specification prior to painting.
- All enclosed chambers created by joining two steel members must be hermetically sealed to eliminate internal corrosion.
- All exterior surfaces of the scale shall have a two-component, high-build epoxy finish, impregnated with aluminum flake for increased corrosion resistance and UV protection, providing total Dry Film Thickness of 8-10 mils (International/Akzo Nobel Intergard 7562 or equivalent).
- The finish shall be force cured in order to reduce risk of contamination and ensure durability of the surface.

LOAD CELL SPECIFICATIONS

- Each load cell shall have a minimum capacity of 50 metric tons (110,000 pounds) with 300% ultimate overload rating.
- All Load cells shall be certified by NTEP and meet the specifications as set forth by NIST HB-44 for Class IIIL devices. The manufacturer shall provide a Certificate of Conformance to these standards upon request.
- All load cells shall be certified to meet the specifications set forth by the International Organization of Legal Metrology (OIML) in document R60 for C3 load cells, which requires 60% tighter accuracy tolerances than NIST HB-44 for Class IIIL devices. The manufacturer shall provide a Certificate of Conformance to these standards upon request.
- Load cells shall be digital with an integral microprocessor and analog-to-digital conversion function located within the load cell housing.
- Load cells shall output only converted digital information without load correction for load position to the scale instrument. Analog output of signals from the load cell is not acceptable due to susceptibility of signal interference.
- The load cell assembly shall be constructed so as to perform as a rocker pin and shall have no positive fixed mechanical connectors, such as bolts or links that are required in mounting the load cell to the weighbridge or foundation base plates.
- The load cell shall not require check rods, flexures, or chain links for stabilization, as these items are sources of ongoing maintenance requirements.
- The load cell shall not require a junction box to communicate between the load cell and scale instrument. No other devices shall be permitted between the load cell and the digital weight display. Junction boxes, summing boards, gathering boards, gathering boxes, totalizers, external analog-to-digital converter boxes, and sectional controller boxes will not be accepted because of their significant and inherent maintenance issues.
- The load cell shall be of stainless steel construction and hermetically sealed with a minimum NEMA 6P / IP68 (submersible) and IP69K rating.
- The load cell shall contain integral Transient Voltage Surge Suppressors (TVSS) for all input and communication lines. Each TVSS shall contain self-resetting thermal breakers to protect the load cell components from voltage and current surges.
- The load cell shall come equipped with a neoprene rubber boot to keep debris from contaminating the lower bearing surface.
- The load cell shall have a positive-lock quick connector integral to its housing for connecting and disconnecting the load cell interface cable at the load cell. The connector shall be of glass-to-metal, pin-type construction to maintain a hermetic seal.
- System shall be so designed as to permit a load cell cable to be replaced without either splicing the load cell cable or replacing the load cell, either of which will contribute to eventual system failure and unnecessary service costs. System shall be so designed as to permit the replacing the load cell cable without requiring that the scale must be recalibrated, further reducing service and maintenance costs.

- The load cell shall have the following specifications:
 1. V_{\min} : 5.0 pounds maximum
 2. Hysteresis: $\pm 0.025\%$ of full scale
 3. Non-Linearity: $\pm 0.015\%$ of full scale
 4. Creep (30 minutes): $\pm 0.017\%$ of applied load
 5. Temperature range: $-10^{\circ}\text{C} + 40^{\circ}\text{C}$
- The load cell interface cable shall be stainless steel sheathed for environmental and rodent protection. Neoprene covered load cell cable shall not be permitted.
- Load cell cables which are hard wired directly to the load cell are not acceptable due to the failure rates associated with moisture wicking into the load cell from aged cables or damaged cables, and due to the unnecessary expense associated with replacing entire load cells when only a cable has been damaged.
- The load cell shall have a minimum 10-year warranty against defects in materials and workmanship and failure resulting from lightning or surge voltages. The warranty shall cover all costs associated with replacement parts, travel, mileage, on-site labor, and recalibration after repair, the full cost of which shall be supported solely by the manufacturer and not in part by any other third party.
- Load cells shall be METTLER TOLEDO POWERCELL[®] PDX[®] load cell or equivalent.

JUNCTION BOXES AND CABLES

- Junction boxes shall not be permitted in the scale, attached to the exterior of the scale, or remotely mounted from the scale. Sectional controllers with encapsulated PCBs shall not be permitted due to the failure rates associated with PCBs that have wired connections made within enclosures which are not hermetically sealed.
- Load cell cables and scale instrument cables shall be stainless steel sheathed for environmental and rodent protection.
- In order to minimize maintenance issues, only a single cable shall be used to transmit data or weight signals between the weighbridge and the digital weight display.

LIGHTNING PROTECTION SPECIFICATIONS

- A comprehensive lightning protection system shall be provided with the scale.
- The system shall not require complicated wiring or devices to provide this protection.
- Major scale components including load cells and scale instrument (terminal) shall be included in the lightning protection system.
- Grounding of all scale components including load cells, scale instrument, and accessories shall be to one common point. Systems with multiple ground points are not acceptable.
- An AC line surge protector shall conveniently plug into a common electrical outlet and have a receptacle.
- Each AC line surge protector required shall have one isolated, grounding, hospital-grade duplex receptacle, and an internal 15-amp circuit breaker.
- Verification of the lightning protection system's performance shall be available in writing from a third-party verification laboratory upon request. Proposals submitted without confirming the availability of third-party verification that the load cells, cables, and

instrument as a system have been able to withstand the equivalent of a lightning strike with 80,000 amperes will be rejected.

- The lightning protection system shall be a METTLER TOLEDO StrikeShield™ Lightning Protection System or approved equal.

WARRANTY REQUIREMENTS

- The scale manufacturer shall warrant the scale assembly including weighbridge structure, scale instrument, and associated cables from failures due to a defect in manufacturing, workmanship, lightning, or surge voltages.
- The guarantee will warrant the product for a period of 10 years from date of installation or 122 months from date of shipment to the Buyer, whichever occurs first. Bidder shall promptly correct any such defect appearing within the warranty period.
- The warranty shall support 100% coverage of repair parts, labor, travel time, and mileage from the closest service location, or at the manufacturer's sole discretion, replacement of the product under warranty. The full cost of warranty as specified herein shall be supported solely by the manufacturer and not in part by any other third party or service provider.

5.0) Bid Submission:

The Bidder should submit bids with unit prices reflected on the bid form on all hardware and software. Professional services and other expenses should be listed separately. County reserves the right to purchase none, one or several of any items quoted based upon the bid unit prices.

The Bidder must submit no less than (3) three references from current clients. The County reserves the right to use itself as a reference and to solicit references from clients other than those listed.

6.0) Evaluation Criteria:

Evaluation will be based on the County's sole judgment of the quality and features of the services and scales offered, support capabilities of the supplier and price.

BID FORM



LANDFILL SCALES

Shelby County Commission

Bid Date: August 13, 2024
2:00 p.m.

Furnishing and Installation of LANDFILL SCALES as specified

_____ Per Scale
(x 3)

_____ Total Bid (Three Scales)

Include on a separate sheet service and labor rates for non-warranty items (regular, overtime and materials markup) and number of personnel available.

Include a copy and detailed explanation of all warranties.

The undersigned offers these price, terms, and delivery as per bid specifications.

Name of Company: _____

Signature: _____

Address: _____

Phone: (include area code) _____

Bid Bond: _____

(If applicable)

Sworn to and subscribed before me this

The ____ day of _____, 2024.

Notary Public

My Commission Expires_____