December 20, 2019

TO WHOM IT MAY CONCERN:

INVITATION TO BID

The Town of Greeneville will accept sealed bids at 200 N. College Street, Greeneville, TN 37745 until January 7, 2020 at 10:00 a.m., at which time they will be opened for the following:

- **Landfill Scales**

Specifications and bid documents may be viewed at www.greenevilletn.gov by clicking on the "Bid Portal" tab. For additional information contact Brad Peters at 423-787-6382 or via email at bpeters@greenevilletn.gov. Envelope should be clearly marked for item(s) being bid. If submitting bids for multiple items, each respective item should be placed in a separate envelope. The Town of Greeneville reserves the right to reject any and all bids and to waive formalities.

LANDFILL SCALES

The unit(s) to be furnished under this proposal shall be a set of **Landfill Scales** delivered complete and ready for municipal use.

Compliance with the specifications shall be so noted in the yes or no columns designated. Any addition, deletion, or variation from the following specifications shall be so stated in the space provided.

These specifications shall be construed as minimum; however, all exceptions will be weighed carefully against the needs, experiences, and resources of the Town of Greeneville. These specifications also require the bidder furnish descriptive literature, complete specifications, and all other technical data on the equipment as proposed by the perspective bidder. Failure to comply with these conditions will deem the bidder as non-responsive.

LANDFILL SCALES			
SPECIFICATIONS	**COMPLY**		
GENERAL:	**Y**	**N**	**OFFERED**
Weighbridge, load cells, and indicator shall be of one manufacturer to maximize compatibility and availability of components.			
Furnish and install one steel deck motor truck scale, specified options and peripheral devices.			
The scale weighbridge shall have an overall weighing surface of not less than 70 feet long and not less than 11 feet wide.			
The scale shall be fully electronic in design and shall not incorporate any mechanical weighing elements.			
The scale shall have a dual tandem axle capacity (Concentrated Load Capacity) CLC of no less than 100,000 lbs.			
The load cells, load cell mounting hardware, and junction boxes shall have all stainless steel construction. The load cell cables shall be detachable from the load cell and have a poly-coated stainless steel sheath.			
The scale shall meet the requirements set forth by the current edition of the National Institute of Standards and Technology Handbook 44 (NIST H-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, indicating instrument, and associated accessories shall be of one manufacturer as to maximize compatibility and availability of components. This manufacturer shall be certified ISO9001.			
The manufacturer shall provide with the bid proposal a listing of major spare parts and corresponding prices including, but not limited to, replacement load cells digital instrument, printer, and junction box circuit boards.			
The scale shall be a B-TEK Scales Model: Centurion CT-7010-DT or approved equal.			
Scale shall be installed at 1555 Old Stage Road, Greeneville, TN where existing pit-type scales are currently in use. Bid shall include removal and disposal of existing scales.			
FOUNDATION:	**Y**	**N**	**OFFERED**
The slab foundation shall not be altered in any way to allow for a scale height that deviates from 13.25 inches.			
The ramp and approach on the east end of the scale shall be excavated for a scale of 70 feet in length to be installed on the current foundation.			
Slab foundation shall be extended 10’ to allow for B-TEK Centurion 7010-DT. Height and thickness of concrete shall match current foundation.			
New 10’ approach with 25’ ramp to grade shall be formed and poured on east end of scale. Concrete shall be 12” thick and ramp to be capped.			
The foundation, approaches and ramps to be in accordance with NIST H-44 guidelines and local / state requirements.			
SCALE WEIGHBRIDGE	**Y**	**N**	**OFFERED**
The scale weighbridge shall have a dual tandem axle capacity (Concentrated Load Capacity) CLC of no less than 100,000 lbs.			
The weighbridge shall consist of prefabricated modules designed with removable center and sectional cover plates. The removable cover plates provide convenient top access to all load cells and junction box(es). They also insure easy access and clear visibility when cleaning the foundation.			

The weighbridge main beams shall be a minimum of WF10@22 built in a "BRIDGE" design such that all structural components are exposed to ambient air. The "BRIDGE" design insures that the main structural components do not corrode due to trapped moisture inside an enclosed / sealed type weighbridge design.			
The weighbridge decking shall be no less than 3/8" thick tread plate.			
The scale weighbridge assemblies shall incorporate no bolted connections between the load cell and weighbridge assemblies.			
The weighbridge platform shall be provided with side-to-side and end-wall checking assemblies. The side checking assemblies shall be integrated into the load cell base plates. End-wall bumper plates shall be embedded or bolted to the end-walls.			
The load cell base plates shall have a minimum thickness of 1/2" and shall be anchored securely to the scale foundation.			
SURFACE PREP & FINISH	**Y**	**N**	**OFFERED**
The weighbridge structural members shall be shot blasted to a minimum SSPC-SP6 specification prior to painting.			
All exposed weighbridge surfaces shall be coated with a cross-linked two-part epoxy (2-4 mil) primer coat followed by a two-part UV resistant polyurethane (2-4 mil) top coat finish. Single coat paint systems will not be accepted.			
LOAD CELL	**Y**	**N**	**OFFERED**
Each load cell shall have a capacity of 75,000 lbs.			
Load cells shall be NTEP certified. A Certificate of Conformance shall be provided by the manufacturer upon request.			
Load cells shall have a "digital" output with integral microprocessor and have all analog to digital signal conversions occur within the load cell housing. Old style load cell with millivolt output signals will not be accepted.			
Load cells shall output only converted digital information to the scale instrument. Small signal analog output from the load cell is not acceptable.			

The load cell assembly shall be a compression column type and 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 or chain links for stabilization.			
The load cell shall be of laser welded stainless steel construction and hermetically sealed. The load cell shall have a minimum rating of IP68 (NEMA 6P) that allows for submersion without loss of function or damage.			
The load cell shall have a threaded connector integral to its housing for connecting and disconnecting the load cell cable. The pin connector shall be of glass to metal construction to insure long-term integrity of the IP68 housing.			
The load cell cable shall be poly-coated stainless steel sheathed for environmental, moisture and rodent protection.			
The load cell shall have a minimum FIVE-YEAR WARRANTY against defects in materials and workmanship. The warranty shall cover damage due to surge voltage and lightning. The warranty shall also cover all costs associated with replacement parts, on-site labor and travel.			
Load cells shall be B-TEK Model CPD-M or approved equal.			
SCALE INSTRUMENT	**Y**	**N**	**OFFERED**
The scale instrument shall be NTEP certified. A Certificate of Conformance shall be provided by the manufacturer upon request.			
The scale instrument shall be housed in an enclosure that is suitable for desktop mounting.			
The scale instrument shall allow for all calibration and diagnostic routines to be performed without need for manual adjustments at scale weighbridge.			
The scale instrument shall use full text (descriptive word) based prompts for entry of setup and calibration parameters. Data and configuration parameters shall be entered through the instrument's alpha-numeric keypad – no external keyboard shall be required.			

The scale instrument shall provide multiple digital filtering parameters of the displayed weight. The instrument shall be capable of reading the digital load cell information at a rate up to 100 times per second.			
The scale instrument shall only receive digital information from the digital load cells. There shall be no analog to digital conversion function in the scale instrument or in junction boxes between the load cell and the scale instrument.			
The scale instrument shall be capable of displaying the "raw count" information of each individual load cell through the instrument without disconnecting any of the load cells from the system.			
The scale instrument shall communicate with each individual load cell and shall display an error code immediately in the event of a load cell failure.			
The scale instrument shall have gross/net weight switching and the ability to recall the gross or tare weights in the net mode.			
The scale instrument shall be capable of being programmed and calibrated in pounds or kilograms.			
The scale instrument shall have a (2) standard communication ports. One provides bi-directional RS232C and the second can be configured for RS232C, RS422 or RS485. The port shall be capable of receiving a remote print command via serial communication or hard wire input.			
The scale instrument shall have a standard analog output providing either 4-20mA or 0-10V.			
The scale instrument shall have (2) standard optically isolated inputs.			
The scale instrument shall have (2) standard relay output contacts.			
The scale instrument shall allow for adjustable digital signal filtering.			
The scale instrument shall have a built in clock / calendar.			
Scale instrument shall be B-TEK model D410 or approved equal.			
JUNCTION BOX & CABLE	**Y**	**N**	**OFFEFED**

All junction boxes shall be rated NEMA 4X and be constructed of stainless steel. Junction box strain relief fittings shall also be made of metal. Junction boxes made of plastic or FRP will not be accepted.			
Load cell cables shall be poly coated stainless steel sheathed for environmental, moisture and rodent protection.			
Junction boxes shall contain no active electronic circuitry or power supplies of any type. Old style summing boards will trim pot adjustments will not be accepted.			
Junction boxes shall contain no scale adjustment devices. All scale adjustments shall be made through the scale indicator.			
CATWALK	**Y**	**N**	**OFFERED**
Scale shall contain an integral catwalk that rests on sight rail and is connected to main beam of the scale. No ground contact shall be required.			
Catwalk shall be at least (4') in length and no more than (2' ½") wide			
Grating of catwalk shall be 1/8" thick and contain a kick-plate of 6" height			
Catwalk shall contain a handrail for the entire length of grating and continue along the stairs. The handrail shall be 37" high.			
Catwalk shall include as many stairs as needed to reach a safe height above grade. Stairs shall also contain a kick-plate and handrail.			
LIGHTING PROTECTION	**Y**	**N**	**OFFERED**
A comprehensive lightning protection system shall be provided with the scale			
The system shall not require complicated wiring or devices to provide this protection			
Lightning protection system shall cover load cells, junction boxes and scale instrument			
An AC line surge protection device shall be provided for the scale indicator			

Lightning protection system shall be backed by a 5-year (minimum) lightning warranty covering load cells, junction boxes and scale indicator			
WARRANTY	**Y**	**N**	**OFFERED**
The scale manufacturer shall warrant the scale weighbridge structure and all load cells, scale instrument and junction boxes for a period of 5-years from the date of shipment from failures due to a defect in manufacturing, workmanship and lightning / surge voltages.			
Within the 5-year warranty period, the manufacturer shall cover the cost of replacement parts, on-site labor and trip charges associated with the repair or replacement of the scale parts or assemblies due to general failure, workmanship and lightning / surge voltages.			
The manufacturer and/or its local representative shall present a program of regular maintenance and calibration service, including the associated inspection costs. Inspection shall occur at a minimum of once every six months and shall comply with the guidelines set forth by the manufacturer, local regulations, and NIST H-44. The biannual inspections are required to meet the terms of the warranty.			
MISCELLANEOUS	**Y**	**N**	**OFFERED**
Scales shall be compatible with PDOX v 5.9.1 software.			
Estimated delivery time (weeks)			
Estimated installation time (days)			
*Installation shall be scheduled so that the interruption of landfill operations is kept to a minimum. The current landfill hours are Monday through Friday, 7:00 am to 3:00 pm.			

Base Bid

Turnkey price for **Landfill Scales** as specified or with listed exceptions: _____

List Bid Alternates Below:

_____ _____

_____ _____

_____ _____

_____ _____

Bidder must submit bids strictly in accordance with the specifications. Each variance to these specifications must be specifically stated in writing by the bidder.

Bidder warrants by virtue of bidding that the prices quoted in the bid will remain firm from the date of bid opening until completion of delivery.

Delivery shall be F.O.B., Greeneville, Tennessee with freights to be paid by shipper.

All bids must indicate the firm name and address, and be signed in ink by an officer or employee having the authority to bind the company or firm by his signature.

The bidder, by executing a contract or bid on the terms of the invitation to bid, warrants the product that is supplied to the buyer shall remain fully in accord with the specifications and to be of the highest quality.

BID FORM

Company: _____

Contact Name: _____

Address: _____

_____

Email Address: _____

Phone: _____ **Fax:** _____

Federal Tax Identification Number: _____

_____

If you have questions regarding the specifications contained in this bid package, please contact:

Brad Peters
200 N College St.
Greeneville, Tennessee 37743
(423) 787-6382
Email: bpeters@greenevilletn.gov

Bid Submitted by:

_____ _____
Authorized Signature **Name (Print)**

_____ _____
Title **Date**

STATEMENT OF INTENTION TO BID

NOTE: Please notify the Town of your intent to respond to this solicitation so we may send you any issued addenda, by returning this form on or before the stated deadline to:

Email: bpeters@greenevilletn.gov or Fax: 423-639-0093

We value your feedback and ask that you complete the following:

Solicitation Name: _____

_____ We, the undersigned, intend to submit on the above bid/proposal.

We, the undersigned, decline to submit on the above bid/proposal for the following reason(s):

_____ Insufficient time to adequately prepare a response

_____ Our company does not offer this product or service. Remove us from the vendor list

_____ Our schedule will not permit us to perform in a timely manner

_____ We are unable to meet bond requirements

_____ We are unable to meet insurance requirements

_____ We are unable to offer comparable product or service

_____ We are unable to meet specifications (explain below)

_____

_____

_____

Company Name: _____

Address: _____

Signature: _____

Telephone: _____

Email: _____

Date: _____

Revised January 2016