



## **Region 2000 Services Authority Invitation for Bid (IFB)**

Region 2000 Services Authority is accepting sealed bids for two (2) new Weigh-Tronix Model FCXT Steel Bridge XT, Low-Profile Motor Truck Scale-Pitless Design-Concrete Deck or equal.

For bid package please visit:

<http://www.region2000servicesauthority.org/procurements> or contact Felicia West at [fwest@region2000.org](mailto:fwest@region2000.org) or (434) 455-6086.

### **BID SUBMISSION DETAILS:**

Issue Date: December 11, 2020

Bids Due: No later than 2:00 pm (EST) December 28, 2020

All Bids must be **Sealed and Delivered** to:

Region 2000 Services Authority  
***Attn: Felicia West***  
361 Livestock Road  
Rustburg, VA 24588

Sealed Envelopes shall be clearly marked "Scale Bid"

Bid opening: Bid opening will take place at the Region 2000 Services Authority offices located at 361 Livestock Road, Rustburg, Virginia 24588. Sealed bids must be received by 2:00 pm (EST) Monday, December 28, 2020 at which time they will be opened and read aloud. Bids received after 2:00 pm (EST) by the official clock at our main office located at 361 Livestock Road Rustburg Virginia 24588 will not be considered.

## **VENDOR INSTRUCTIONS:**

- Vendor shall mark each specification either “YES” to indicate item being quoted is exactly as specified or a “NO” to indicate any deviation of item being bid from the specifications.
- Any “NO” response or deviation shall be explained in spaces provided.
- Where certain brands “or equal” are specified, be sure to state the brand/model of option quoted.
- Any additions, deletions, or variations from the following specifications must be noted.
- Any items appearing in the manufacturers regularly published specifications and offered as standard equipment by the manufacturer shall be included in any submitted bid, unless otherwise expressly specified herein.
- Any additions, deletions or variations from the manufacturer’s regularly published specifications must be outlined in an attached letter, to provide the Region 2000 Services Authority with enough information to clearly evaluate that which is being offered. Failure to properly complete this component of a submitted bid shall, at the sole discretion of the Region 2000 Services Authority, subject your bid to rejection.
- The Region 2000 Services Authority reserves the right to utilize value engineering to determine the selection of the item most advantageous for its use and make an award in accordance with such provisions.
- There is no requirement to accept the lowest cost equipment offered and specific requirements may be waived or amended at the discretion of the Region 2000 Services Authority.

**BID SPECIFICATIONS:**

**Section 1.0 – TRUCK SCALE SPECIFICATIONS**

The **two (2) new truck** scales will be a fully electronic, low profile, concrete deck design truck scale. The scale platforms, weigh-bars or load cells and digital indicators will be 100% designed, manufactured and assembled by one manufacturer located in the United States of America.

The scale will meet the following minimum standards:

<b>General Specifications</b>	
<b>Manufacturer Model No.:</b>	Weigh-Tronix Model FCXT-7010-100T <b><i>or equal</i></b>
<b>Capacity:</b>	135 Tons
<b>Platform Size:</b>	70' x 10'
<b>Number of Modules:</b>	3
<b>Structural Steel Content:</b>	25,711 lbs.
<b>Number of Weigh Bars:</b>	8 (maximum)
<b>Dual Tandem Axle Rating:</b>	90,000 lbs.

- 1.1 Scale shall be a full electronic design. Mechanical lever systems are not acceptable. Scale weighbridge will consist of three factory welded modules each having a minimum longitudinal span of 23'4" and platform width of 10'.

***\*Scales using flexure restraint systems will not be permitted. No field assembly or welding will be allowed.***

YES       NO

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- 1.2 Each scale module shall be designed with a CLC (Concentrated Load Capacity) of 45 Tons as defined by NIST. When the designed CLC is applied at midspan on a module according to NIST regulations, the maximum bending stress in the steel shall not exceed 16,000 PSI. The maximum stress due to bending in the concrete shall not exceed 1,700 PSI. The deflection at this loading condition shall not cause the scale to exceed the allowable accuracy tolerance as specified by NIST in Handbook 44.

YES       NO

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1.3 Scale shall have a nominal capacity of 100 Tons (200,000#) and a resolution of 20# increments.

YES  NO

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1.4 The scale provided will have an unobstructed weighing surface of ten feet (10') wide by seventy feet (70') in length and a **14" maximum profile.**

YES  NO

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1.5 The scale system shall be a full electronic design with internal self-checking weighbridge.

***External check rods will not be permitted.***

YES  NO

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1.6 The scale shall have a minimum calculated "r" factor of 2.65.

YES  NO

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1.7 Minimum deck thickness will be 10-1/4" including steel support substructure.

YES  NO

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1.8 Concrete deck will be poured at job site and have a minimum cured strength of 4000 PSI at 28 days. Minimum concrete deck thickness will be 5" with fiber mesh additives & deck will be reinforced with Nelson shear studs.

YES  NO

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1.9 All concrete elements within axle pattern of vehicles shall be in a compression application above the neutral axis of the structure.

***\*Concrete decks that have no steel deck substructure will not be permitted. Pre-cast concrete decks are not acceptable.***

YES     NO

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1.10 The minimum dual tandem axle ratings shall be equivalent to the CLC as approved by NIST, and shall be as follows:    **Dual 90,000#**

YES     NO

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1.11 The scale shall be designed to accommodate up to 270 trucks per day with a Dual Tandem Axle Load of up to 72,000 lbs. for a period of twenty (20) years without weighbridge fatigue.

YES     NO

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1.12 The scale shall be sandblasted to SPC 6 standards.

YES     NO

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1.13 The scale shall receive a high-solids, urethane primer to 2-3 mils dry film thickness.

YES     NO

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1.14 The scale shall receive a high-performance, two-part, acrylic polyurethane top coating to 2-3 mils dry film thickness.

YES     NO

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1.15 The scale will be NTEP certified and shall meet the requirements set forth by the NIST Handbook 44 for Class III-L devices.

***The bidder shall submit a current copy of COC (Certificate of Conformance) with bid.***

YES     NO

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1.16 The scale provided shall be a Weigh-Tronix Steel Bridge Model FCXT-7010 **or equal.**

YES     NO

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1.17 Concrete and steel elements of weighbridge shall be tied together with Nelson shear studs running both laterally and longitudinally insuring a composite adhesion of the steel and concrete elements.

YES     NO

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1.18 The weight sensors and junction boxes contained in the weighbridge shall be warranted by the manufacturer for a period of five (5) years from the date of installation and the weighbridge structure shall be warranted for fifteen (15) years.

YES     NO

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**Section 2.0 – WEIGH BARS**

2.1 Weight sensors shall be Avery Weigh-Tronix Weigh Bars **or equal.**

YES     NO

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2.2 Weigh Bars or load cells will be mounted within the weighbridge perpendicular to traffic flow. Suspension will be hardened, single link suspension to allow a free-floating platform.

YES     NO

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2.3 Weigh Bars or load cells will be **stainless steel** analog type and have a minimum capacity of 75,000 lbs. each with an overload safety factor of 200%.

***\*Hybrid digital cells with analog/digital circuitry in the load cell or junction box will not be permitted.***

YES     NO

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2.4 All access to Weigh Bars or load cells will be from the top of the scale through steel access panels secured by stainless steel bolts.

YES     NO

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2.5 All conduit runs within the scale weighbridge will be through dedicated conduit.

***\*Loose or unprotected wires will not be allowed.***

YES     NO

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2.6 The Weigh Bar or load cell strain gauges and wire connection to the gauges shall be potted using a urethane potting material to prevent moisture, conductive dust and corrosive material from entering the gauge area as well as protecting the sensitive gauges from physical damage.

YES  NO

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2.7 All Weigh Bars (8 maximum) or load cells and load cell junction boxes (2) will be and have a NEMA 4X rating and be of **stainless-steel** construction.

YES  NO

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2.8 Suspension stands will be flush mounted to concrete piers and anchored using Red Head wedge locks or similar bolts.

***\*Grout plates or flexure restraints will not be allowed.***

YES  NO

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2.9 All Weigh Bars or load cells & **stainless-steel** load cell cables will be connector-less.

***\*Cannon or similar connectors will not be allowed.***

YES  NO

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2.10 Surge voltage and lightning protection will be provided as standard for protection of Weigh Bars or load cells.

YES  NO

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2.11 Weigh Bars will be warranted a full 5-years.

YES       NO

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2.12 Service and installation shall be provided by a factory-authorized distributor within a 40-mile radius of the Region 2000 Services Authority landfill in Campbell County, VA.

YES       NO

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2.13 The truck scale will be designed so that alternative brands of digital indicators can be substituted for the original equipment so that the owner of the equipment will have the option of replacing the original digital instrument with an alternative type or brand in the future, if desired.

YES       NO

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**Section 3.0 – OPTIONS**

The following items or equal if not standard shall be included:

3.1 Guide rails

YES       NO

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3.2 W-T Wi-127 indicator w/ extra RS-232

YES       NO

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3.3 XR 4500 TL w/traffic light remote display

YES       NO

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3.4 Pole, base anchor brackets

YES       NO

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3.5 (2) red green traffic lights

YES       NO

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3.6 Stainless steel weigh bars

YES       NO

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3.8 (8) bollards/guideposts

YES       NO

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**Section 4.0 – VENDOR BID SHEET**

**Purchase Price:**

Total purchase price including demolition and disposal of existing scales and modification of existing foundation and approach aprons, if required, installation, calibration and delivery for:

Model # \_\_\_\_\_

Price \$ \_\_\_\_\_

Company: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Contact Information:

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

eMail: \_\_\_\_\_

Authorized Representative Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_