State of Illinois

Department of Transportation

Bureau of Business Services

**Specifications and Questionnaire**

**For Portable Wheel Load Scale and Electronic Accessories**

April 2019

This specification and questionnaire covers individual wheel load portable electronic scales for use by the Department of Transportation in determining truck axle loading.

Each bidder shall submit with their bid two sets of descriptive literature and specifications describing all the equipment proposed. This information shall be clearly marked to indicate the make, model, and accessories proposed to be furnished.

Bidders quoting on equipment other than specified must submit with their bid written proof of the following:

* The equipment proposed equals or exceeds that specified in all respects including capacity, operating features, and accessory items.
* The manufacturer of the equipment proposed has been actively involved in the manufacture of the equipment called for in the Proposal for a period of not less than 5 years and has produced and sold such equipment to the satisfaction of previous buyers.
* Parts and service for the equipment proposed are readily available to the State of Illinois.

It is the responsibility of each bidder to complete and return this questionnaire with the bid.

**Unless otherwise specified, the proposed equipment shall be complete in all parts and ready for immediate use upon delivery.**

**Bidders are advised to carefully read these specifications as changes have been made since the last solicitation issue.**

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| --- |
| **Proposed With This Bid:** |
|  |
| Make: |       |
| Model: |       |
| Manufactured By: |       |
| Bidder: |       |
|  |       |
|  |       |
| Telephone: |       |
| Contact Name: |       |
| Email: |       |

**Note: If the equipment proposed exceeds the minimums called for in the specification please do not mark NO. Mark YES and explain with a short comment on how it exceeds.**

**Portable Scales:**

These specifications define a fully electronic portable wheel load weighing system with integrated read out, rechargeable, self-contained power source.

***Note:*** Fully or partially hydraulic operated devices do not meet these requirements.

Units will be purchased in sets. Each set shall include the following:

1. Electronic wheel load weighers – 8 each

Complies: Yes [ ]  No [ ]

**Component Specifications:**

Wheel Load Weighers:

Weight capacity of 0 to 20,000 lbs.

|  |  |  |
| --- | --- | --- |
| Capacity: |       | Pounds |

Complies: Yes [ ]  No [ ]

The overall dimensions of the scale shall be 33.8”x 20.4”x1.5”.

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| --- | --- | --- | --- | --- | --- | --- |
| Dimensions |       | “ x |       | “ x |       | “ |

Complies: Yes [ ]  No [ ]

The wheel weighers must be tested and certified for use by: **(1)** The Department of Weights and Measures or authorized state agency, according to state regulations; and **(2)** National Bureau of Standards Handbook 44 for portable wheel load weighers, Class IV devices.

Complies: Yes [ ]  No [ ]

Certificate of Conformance or N.T.E.P. certification number with the National Bureau of Standards Handbook 44 requirements must be presented with bid. Bids received without these certifications will not be considered.

Complies: Yes [ ]  No [ ]

The height of scale weight pad with base-board ready to weigh shall not exceed 1.5".

Complies: Yes [ ]  No [ ]

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| Overall scale height: |       | Inches |

Active weighing surface shall be a minimum of 15” x 22” and capable of accurately weigh dual tires up to 27.5" wide.

Complies: Yes [ ]  No [ ]

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| --- | --- | --- | --- | --- |
| Size of weighing area |       | “ x |       | “ |

***Note:*** Scales provided will be tested for strict compliance for these dimensions.

Weight of the scale is**not to exceed** 50 lbs.

Complies: Yes [ ]  No [ ]

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| --- | --- | --- |
| Weight |       | Pounds |

Cord and cordless operation of scales is required.

Complies: Yes [ ]  No [ ]

Scales must have capability of**minimum** of eight (8) hours cordless continuous weighing operation before recharging is required.

Complies: Yes [ ]  No [ ]

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| Length of cordless operation: |       | hours |

Recharging capability to operate from 12-volt **DC** system to recharge sets of up to six (6) scales at the same time.

Complies: Yes [ ]  No [ ]

Capable of use in all weather conditions on following surfaces: asphalt, concrete, hard packed crushed stones and hard packed dirt.

Complies: Yes [ ]  No [ ]

Capable of operating accurately in a temperature range of 0o to 125o F.

Complies: Yes [ ]  No [ ]

Integrated digital readout on each wheel weigher. Minimum character height of 3/4".

Complies: Yes [ ]  No [ ]

Display range shall be 0 to 21,000 lbs. in 50 lbs. increments as selected.

Complies: Yes [ ]  No [ ]

Each scale shall be shielded against radio frequency interference caused by mobile radio transceivers or other mobile communications.

Complies: Yes [ ]  No [ ]

Automatic built-in calibration and circuit check, display test and zero point adjustment must be completed in one step by activation of either **"ON/OFF"** switch or any other single control.

Complies: Yes [ ]  No [ ]

Scale must have an automatic zeroing capability without activation of any control button when weight leaves the scale.

Complies: Yes [ ]  No [ ]

Scale shall be capable of automatic shut off after fifteen (15) minutes of non-use.

Complies: Yes [ ]  No [ ]

Scale must be capable of operating with optional, disposable non-rechargeable batteries.

Complies: Yes [ ]  No [ ]

Total scale, **including weight display area and handle*,*** must withstand truck overrun at all points without damage.

Complies: Yes [ ]  No [ ]

Each scale must be capable to weigh and display either axle load or wheel load.

Complies: Yes [ ]  No [ ]

**Conditions:**

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| --- | --- | --- |
| Number of years in scale manufacturing and distribution business |       | Years |

List other product lines offered:

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List a minimum of two (2), current or past customers (State DOT’s or State Law Enforcement agencies, etc.) who are currently using quoted models.

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| Agency Name: |       |
|       |

Address:

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| Contact Name: |       |
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| Agency Name: |       |
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Address:

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| Contact Name: |       |
| Telephone: |       |
| Email: |       |

**Requirements Covering Items Detailed Above:**

All equipment cataloged as standard shall be furnished and in place and shall be included in the purchase price of the unit. Any parts, tools, and/or accessories not specifically called for but required for proper operation shall be provided.

Complies: Yes [ ]  No [ ]

The component parts of the unit shall be of proper size and design to safely withstand maximum stresses imposed by a capacity load, and the manufacturers rated loads for chains and bearings shall not be exceeded when the unit is loaded with such loads.

Complies: Yes [ ]  No [ ]

Standard tool kits shall be supplied, if required.

Complies: Yes [ ]  No [ ]

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| If No, explain: |       |
|       |

Manufacturer shall warranty the product provided for three (3) years. Bidder shall attach copy of warranty with bid. Since the continuous operation of this equipment is of the utmost importance and sometimes of an emergency nature, it is necessary that the successful bidder be in a position to render prompt parts and service. Review of the bidder's ability to provide prompt parts and service within the state of Illinois will be considered.

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| Describe warranty: |       |
|       |

The vendor or manufacturer of the unit which is seriously considered for award shall, at the request of the state of Illinois, demonstrate this equipment at a location chosen by the state and in the presence of authorized state personnel to prove out any features which may be in question.

Complies: Yes [ ]  No [ ]

This equipment is to be delivered in first-class operating condition with acceptance subject to Department of Transportation inspection and approval.

The Illinois Department of Transportation reserves the right to waive minor informalities, deficiencies or technical variances which by their nature are restrictive to a given manufacturer, if in its’ judgement, it would be in the best interest of the State to do so and it would not prejudice the rights of other bidders.

If **No** to any portion, explain:

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**Bid Package:**

Bidders will need to send two copies of each of the following with their bid response.

1. Specification Questionnaire
2. Descriptive Literature