

SPECIFICATION FOR WEIGH SCALES

170. 1.0 SCOPE

These Specifications govern all operations for and pertaining to supplying, installing and maintaining truck weigh scales.

170. 2.0 DEFINITIONS

The following definitions apply only for the purposes of interpreting these Specifications:

Certification

Certification is the process by which Measurement Canada or a Measurement Canada Authorized Service Provider approves a scale for use in trade. Certification generally occurs once in the life of the scale unless modifications are made to the scale.

Calibration

Calibration is the process by which Measurement Canada or a Measurement Canada Authorized Service Provider approves a certified scale for use should the scale fail Field Accuracy Testing or following repair of the scale.

Field Accuracy Testing

Field Accuracy Testing is the procedure by which the Department will approve the use of a scale after scale set-up and by which the Department will randomly test the scale for accuracy.

170. 3.0 SCALES

3.1 Supply

The Contractor shall supply weigh scales and test weights when:

- (i) material provided by the Department and received by the Contractor at the site requires weighing to verify quantity.
- (ii) the terms of the Contract require aggregate or material to be measured by weight.

Separate scales may be required when two or more different types of material measured by weight are being hauled simultaneously. At least one set of test weights shall be available on or near the project. At a minimum, the Contractor shall provide at least 5000kg of test weights.

3.2 Type and Capacity

Each weigh scale shall be certifiable and a type approved by Measurement Canada. The scale shall be equipped with metric scale heads. The use of double wide scales is permitted. Belt scales are not acceptable to weigh material for payment purposes.

Each scale shall be of sufficient capacity and length to weigh, in one operation, any truck, or truck and trailer combination, hauling material to be paid for by weight as a contract item.

3.3 Safety

The Contractor shall locate the scale shack away from the scale platform and outside of the scale platform clear zone as approved by the Department. If the scale shack cannot be located a sufficient distance from the scale platform, the Contractor must provide one of the following:

- Rub rails manufactured by the scale supplier specifically for the scale platform(s) in use on the project.
- Engineered guide rails designed and sealed by a professional engineer specifically for the scale platform(s) in use on the project.
- Other mitigative measures acceptable to the Department.

If requested by the Engineer, the Contractor shall provide satisfactory documentation that the railing system has been designed for use with the scale platform(s) in use on the project.

3.4 Location

Scales shall be located as specified in the applicable Specifications or in the Special Provisions. When not specified, scales shall be located at sites approved by the Engineer.

3.5 Foundation

The foundation and ramp for the scale shall be adequate to support the largest load to be scaled without movement or deflection in the foundation or weighbridge. The scale shall be installed so as to prevent the ramp from binding against the scale platform. Each ramp shall be constructed straight and to the same elevation as the scale platform for a distance equal to at least the length of the platform.

The scale shall be kept level and must be able to withstand loads up to the device capacity without movement or deflections. If ground or weather conditions cause movement or deflection, operations shall be suspended. Shims and other means of height adjustment shall be made of any suitable material that resists compression at least as well as the main support structure, and shall fill the entire void area under the level stands or load cell bases to ensure that the scale remains stable and level under normal conditions of use of the scale.

3.6 Certification

The Contractor shall provide evidence that scales have been certified for use in trade at least once in the past according to the standards and procedures set out by Measurement Canada. The certification must have been performed by Measurement Canada or a Measurement Canada Authorized Service Provider before the scales will be accepted for use.

The Contractor shall provide evidence that the test weights have been certified for use in trade at least once in the past according to the standards and procedures set out by Measurement Canada.

The certification must have been performed by Measurement Canada or a Measurement Canada Authorized Service Provider before the weights will be accepted for use.

3.7 Set-up and Field Accuracy Testing

The Department will provide a representative that has been trained by Measurement Canada to oversee the scale set-up and perform Field Accuracy Testing. Scales will not be accepted for use until the trained Department representative has approved the scale set-up and performed field accuracy testing.

Scales that do not meet the tolerances for Field Accuracy Testing shall be recalibrated, at the expense of the Contractor, by Measurement Canada or a Measurement Canada Authorized Service Provider Canada before the scales will be accepted for use on the project.

Scales shall be tested on a regular basis or as requested by the Engineer. If subsequent recalibration of the scale by Measurement Canada or a Measurement Canada Authorized Service Provider is required, it shall be performed at the expense of the Contractor.

3.8 Operation

The Engineer will direct the operation of the scale and issue weigh tickets showing gross, tare and net weight for each load of material. The tare weight shall be established when hauling begins on a project, and thereafter as frequently as directed by the Engineer.

In the event that material provided to the Contractor by the Department is delivered at a time when the Department scale person is not on duty, the Contractor shall verify the quantity delivered by weighing the hauling vehicle before and after unloading. These weights shall be recorded on the delivery slip which shall be given to the Engineer the next working day.

The scale platform and mechanism shall be kept clean and maintained free of gravel, mud, snow, ice or other deleterious material.

170. 4.0 SCALE HOUSE

Each scale shall be equipped with one well constructed weatherproof scale house, having minimum floor dimensions of 1.8 m x 2.4 m. The walls shall be at least 2.13 m high. A wooden door, screen door and step shall be located either on the wall opposite to approaching trucks or on the wall farthest away from the scales.

A screened window facing approaching trucks shall have an area of at least 0.46 m² and shall be capable of being opened. A window facing the scale shall have an area of at least 0.74 m². Provision shall be made in the window to allow the checker to pass the scale ticket directly to the trucker.

The walls, floor and ceiling shall be insulated. A suitable table and chairs shall be provided.

The Contractor shall provide an approved heating and/or cooling unit with controls to maintain a room temperature of 18-25 degrees Celsius.

A fully charged fire extinguisher with a minimum size of 2.3 kg., rated ABC, shall be supplied and conveniently located on the wall.

The Contractor shall provide a carbon monoxide detector.

The Contractor shall provide adequate lighting on the scale, the ramps and in the scale house when hauling or receiving goods over the scale during darkness.

The Contractor shall provide washroom facilities for the exclusive use of Department staff. The washrooms shall be the self-contained chemical type which are cleaned and serviced a minimum of once a week.

170. 5.0 BASIS OF PAYMENT

No direct payment will be made for providing scales, scale buildings, heating fuel or other items necessary or incidental thereto, as herein described, all of which will be considered incidental to the operations being performed.