

Notification of the Central Bureau of Weights and Measures

Regarding Prescription on Checklist for Testing Prototype of Non - Automatic
Weighing Instrument with Weighing Platform Fixed at Place
Having Capacity Range of 10 Metric Tons Upwards (Vehicle Scale)¹

Whereas the Minister of Commerce, upon the recommendation of the Committee on Weights and Measures, already issued the Notification of the Ministry of Commerce regarding Rules, Procedures and Conditions Relating to Submission of Prototype and Approval for Prototype of Measuring Instrument by Competent Official, dated 11th July B.E. 2566 (2023), prescribing that the Central Bureau of Weights and Measures shall prescribe a checklist for testing a prototype of a measuring instrument in order that a test unit is capable of testing the prototype pursuant to the prescribed checklist.

By virtue of the definition of the word “checklist” as provided in Article 2 of the Notification of the Ministry of Commerce regarding Rules, Procedures and Conditions Relating to Submission of Prototype and Approval for Prototype of Measuring Instrument by Competent Official, dated 11th July B.E. 2566 (2023), the Director-General of the Department of Internal Trade, therefore issues this Notification, as follows.

Article 1 This Notification shall come into force as from the date of its publication onwards.

Article 2 In this Notification,

“Prototype of Vehicle Scale” (type or pattern) means the pattern or drawing of the non - automatic weighing instrument with a weighing platform fixed at a place having a capacity range of 10 metric tons upwards and having a weighing indicator being a digital system (the vehicle scale) which an applicant wishes to manufacture or import.

Article 3 As for testing the prototype of the vehicle scale, the test unit is required to carry out the test pursuant to the checklist and the following rules and procedures in order that the prototype of the vehicle scale shall be accurate, precise and in compliance with the Notification of the Ministry of Commerce regarding the prescription on the type and characteristic of weighing instruments, the detail of materials used for manufacturing weighing instruments, maximum permissible error, a prohibition on subsequent verification and a term of verification, including the stipulation of other relevant notifications and regulations.

¹ Published in the Government Gazette, Volume 142, Special Part 203 d, Page 17, dated 26th May B.E. 2568 (2025).

(1) Visual Inspection. It is the inspection of the general characteristics of the prototype of the vehicle scale prior to the technical test under (2), by inspecting the external appearance of every part of the prototype of the vehicle scale in order to check that it is accurate, complete and neither defective nor abnormal. The weighing of the prototype of the vehicle scale shall operate accurately, precisely and continuously. The detail and indication of various values on the prototype of the vehicle scale shall be indicated in a legible, clear and indelible manner. In this regard, the visual inspection shall be conducted pursuant to the checklist as provided in Table 1 as attached to this Notification.

(a) As for the inspection of the structure of a weighing platform, it is the inspection of the weighing capacity of the non - automatic weighing instrument with the weighing platform fixed at a place having a capacity range of 10 metric tons upwards (the vehicle scale). The drawing of the structure of the weighing platform shall be made and certified by a civil engineer who has a professional license. In this regard, the inspection shall have at least the checklist of the weighing platform as provided in Table 1 as attached to this Notification.

(b) The inspection of the technical details of a load cell is made from a report on the result of test issued by the International Organization of Legal Metrology or the measurement institute or organization of the foreign government which is the ordinary member or the associate member of the International Organization of Legal Metrology. In this regard, the inspection shall have at least the details as provided in Table 3 as attached to this Notification.

(c) The inspection of the consistency of a scale, a weighing indicator and a load cell of the prototype of the vehicle scale is made by the calculation of the consistency of the weighing indicator and the load cell pursuant to the form attached the Notification of the Central Bureau of Weights and Measures regarding Rules, Procedures and Conditions Relating to Inspection of Consistency of Loading Indicator and Load Cell, B.E. 2560 (2017), dated 31st July B.E. 2560 (2017). In this regard, the inspection shall be conducted according to the stipulation as made in Table 4 as attached to this Notification.

(d) As for the inspection of documents concerning a weighing program (a peripheral computer in particular), it is the inspection of the documents detailing the step of the operation method of the weighing program. The weighing program shall have the operation method in a proper manner pursuant to the relevant law. In this regard, the inspection of the documents concerning the weighing program shall be conducted according to the checklist as provided in Table 5 as attached to this Notification.

(2) Technical Test. It is the test on the accuracy and precision of the prototype of the vehicle scale, whereby the test shall be done by weighing according to the following rules and procedures:

(a) Test on Immunity to Conducted Radio - Frequency Fields. It is the test on the capability of a weighing indicator in resisting radio - frequency waves while being disturbed by radio - frequency waves. The weighing indicator shall pick up a weighing signal, indicate, record and print a weight value in an accurate and precise manner. In this regard, the test on immunity to conducted radio - frequency fields shall be done pursuant to the checklist as provided in Table 6 as attached to this Notification

(b) Test on Weighing Program (a peripheral computer in particular). It is the test on picking up a weighing signal of the weighing program sent from a weighing indicator to the computer used for assessing the result of weight and printing a weighing report. The test aims to inspect the assessment of the program and the sending of data to a device for printing the weighing report in real time, and to inspect the ownership of the weighing program and the code of registration. In this regard, the test shall be done pursuant to the checklist as provided in Table 7 and Table 8 as attached to this Notification.

(c) Weighing Performance Test. It is the test on the weighing capability of the prototype of the vehicle scale at the time of weighing at a weight rate used for testing as specified, whereby the weighing result of the prototype of the vehicle scale shall be accurate and precise. In this regard, the weighing performance test shall be done pursuant to the checklist as provided in Table 9 as attached to this Notification.

(d) Discrimination Test. It is the test on the indication of values of the prototype of the vehicle scale at the time of weighing at a weight rate used for testing as specified, and increasing or decreasing the load consecutively and continuously within one period of time, whereby the prototype of the vehicle scale shall indicate values in an accurate and complete manner. In this regard, the discrimination test on the prototype of the vehicle scale shall be done pursuant to the checklist as provided in Table 10 as attached to this Notification.

(e) Repeatability Test. It is the test on the weighing capability of the prototype of the vehicle scale at the time of weighing at a weight rate used for testing for consecutive times, whereby the prototype of the vehicle scale shall indicate values in an accurate and precise manner. In this regard, the repeatability test shall be done pursuant to the checklist as provided in Table 11 as attached to this Notification.

(f) Eccentricity Test. It is the test on the weighing capability of the prototype of the vehicle scale at the time of weighing at a weight rate used for testing at various positions

on the weighing platform as specified, whereby the prototype of the vehicle scale shall indicate values in an accurate and precise manner. In this regard, the eccentricity test on the prototype of the vehicle scale shall be done pursuant to the checklist as provided in Table 12 as attached to this Notification.

Article 4. When the test unit has already carried out the test of the prototype of the vehicle scale under Article 3, it is required to make a test report pursuant to Form ThorSor.1013 as attached to this Notification. And the test unit shall send the report in writing to a competent official by a registered and replied mail or an electronic mail (E-mail : cbwmtype@gmail.com) within seven days as from the date of completion of the test in order that the competent official shall further consider the report for approving the prototype of the vehicle scale.

Given on the 17th Day of April B.E. 2568 (2025)

Wittayakorn Maneenetr

Director-General of the Department of Internal Trade