

Notification of the Central Bureau of Weights and Measures

Regarding Prescription on Checklist for Testing Prototype of Spring Weighing Instrument¹

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 spring weighing instrument” (type or pattern) means the pattern or drawing of the spring weighing instrument which an applicant wishes to manufacture or import.

Article 3. As for testing the prototype of the spring weighing instrument, 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 spring weighing instrument shall be accurate, precise and in compliance with the stipulation of the Notification of the Ministry of Commerce regarding the prescription on the type and characteristic of weighing instruments, the details of materials used for manufacturing weighing instruments, maximum permissible errors, 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 140, Special Part 318 d, Page 49, dated 19th December B.E. 2566 (2023).

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

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

(a) Weighing Performance Test. It is the test of the weighing capability of the prototype of the spring weighing instrument at the time of weighing at a weight rate used for testing as specified, and being placed at various positions on a weighing tray, whereby the weighing result of the prototype of the spring weighing instrument shall be accurate and precise. In this regard, the weighing performance test shall be done pursuant to the checklist as provided in Table 2 as attached to this Notification.

(b) Discrimination Test. It is the test of the display of values of the prototype of the spring weighing instrument at the time of weighing at a weight rate used for testing as specified, and increasing or decreasing the weight consecutively and continuously within one period of time, whereby the prototype of the spring weighing instrument shall display values in an accurate and complete manner. In this regard, the discrimination test of the prototype of the spring weighing instrument shall be done pursuant to the checklist as provided in Table 3 as attached to this Notification.

(c) Eccentricity Test. It is the test of the weighing capability of the prototype of the spring weighing instrument at the time of weighing at a weight rate used for testing at various positions on a weighing tray as specified, whereby the prototype of the spring weighing instrument shall display values in an accurate and precise manner. In this regard, the eccentricity test on the prototype of the spring weighing instrument shall be done pursuant to the checklist as provided in Table 4 as attached to this Notification.

(d) Repeatability Test. It is the test of the weighing capability of the prototype of the spring weighing instrument at the time of weighing at a weight rate used for testing for five consecutive times, whereby the prototype of the spring weighing instrument shall display values in an accurate and precise manner. In this regard, the repeatability test shall be done pursuant to the checklist as provided in Table 5 as attached to this Notification.

(e) Creep Test. It is the test of the prototype of the spring weighing instrument in terms of spring fatigue in weighing at the time of weighing at a weight rate used for testing as specified, and being placed on a weighing tray, by recording a reading and displaying weight values after a lapse of fifteen minutes, thirty minutes and four hours, whereby the aforesaid weighing result shall be accurate and precise. In this regard, the creep test shall be done pursuant to the checklist as provided in Table 6 as attached to this Notification.

(f) Tilting Test. It is the test of weighing while the prototype of the spring weighing instrument is being located on a floor with a slope of 3 degrees, whereby the prototype of the spring weighing instrument shall weigh and display weight values in an accurate manner. In this regard, the tilting test shall be done pursuant to the checklist as provided in Table 7 as attached to this Notification.

(g) Endurance Test. It is the test of the prototype of the spring weighing instrument in terms of usage endurance at the time of weighing consecutively for ten thousand times and above, whereby the prototype of the spring weighing instrument shall display weighing results in an accurate and precise manner. In this regard, the endurance test shall be done pursuant to the checklist as provided in Table 8 as attached to this Notification.

Article 4. When the test unit has already carried out the test of the prototype of the spring weighing instrument under Article 3, it is required to make a test report pursuant to Form ThorSor.1011 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 spring weighing instrument.

Given on the 27th Day of November B.E. 2566 (2023)

Wattanasak Sur-iam

Director-General of the Department of Internal Trade