

Notification of the Central Bureau of Weights and Measures

Regarding Prescription on Checklist for Testing Prototype of Non - Automatic Weighing Instrument (Analog Self - Indicating Type and Non - Self - Indicating Type)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 Non - Automatic Weighing Instrument (Analog Self - Indicating Type and Non - Self - Indicating Type)” (type or pattern) means the pattern or drawing of the non-automatic weighing instrument, an analog self - indicating type and a non - self - indicating type, which an applicant wishes to manufacture or import.

Article 3 As for testing the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type), 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 non - automatic weighing instrument (an analog self - indicating type

¹ Published in the Government Gazette, Volume 142, Special Part 213 d, Page 17, dated 9th June B.E. 2568 (2025).

and a non - self - indicating type) 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, the maximum permissible error, a prohibition on subsequent verification and a term of verification, including the stipulation of other relevant notifications and regulations.

(1) Visual Inspection. It is the inspection of the general characteristics of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) prior to the technical test under (2), by inspecting the external appearance of every part of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) in order to check that it is accurate, complete and neither defective nor abnormal. The weighing of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) shall operate accurately, precisely and continuously. The detail and indication of various values on the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) shall be provided 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 on the accuracy and precision of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type), whereby the test shall be done by weighing according to the following rules and procedures:

(a) Weighing Performance Test. It is the test on the weighing capability of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) 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 non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) 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 on the indication of values of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) 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 non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) shall indicate a value in an accurate and complete manner. In this regard, the discrimination test on the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) shall be done pursuant to the checklist as provided in Table 3 as attached to this Notification.

(c) Sensitivity Test. It is the test on the sensitivity of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type). While a small load is placed on a weighing platform, a pointer shall permanently move from equilibrium for a specified distance. In this regard, the sensitivity test on the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) shall be done pursuant to the checklist as provided in Table 4 as attached to this Notification.

(d) Eccentricity Test. It is the test on the weighing capability of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) 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 non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) shall indicate values in an accurate and precise manner. In this regard, the eccentricity test on the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) shall be done pursuant to the checklist as provided in Table 5 as attached to this Notification.

(e) Repeatability Test. It is the test on the weighing capability of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) at the time of weighing at a weight rate used for testing for ten consecutive times, whereby the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) shall indicate a value in an accurate and precise manner. In this regard, the repeatability test shall be done pursuant to the checklist as provided in Table 6 as attached to this Notification.

Article 4 The technical test under 3 (2) shall be done for the prototypes of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) as follows :

(1) the prototype of a weighing instrument with a weighing platform having a round dial,

- (2) the prototype of a weighing instrument with two equal arms,
- (3) the prototype of a Roberbal balance and a Beurer balance,
- (4) the prototype of a steelyard balance,
- (5) the prototype of a weighing instrument with a weighing platform having a counterweight,
- (6) the prototype of a weighing instrument with a weighing platform having a sliding weight.

Article 5 When the test unit has already carried out the test of the prototype of the non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type) under Article 3, it is required to make a test report pursuant to Form ThorSor. 1010/1015 - 8 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 : cbwmttype@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 non - automatic weighing instrument (an analog self - indicating type and a non - self - indicating type).

Given on the 30th Day of April B.E. 2568 (2025)

Wittayakorn Maneenetr

Director-General of the Department of Internal Trade