

Notification of the Central Bureau of Weights and Measures

Regarding Prescription on Checklist for Testing Prototype of Meter for Liquids¹

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,

“Meter for Liquids” means the meter for liquids pursuant to the Notification of the Ministry of Commerce Regarding Prescription of Type and Characteristic of Meter for Liquids, Detail of Materials Used for Manufacture, Maximum Permissible Error and Term of Verification, but not including the meter for fuel oil at petrol stations,

“Prototype of Meter for Liquids” (type or pattern) means the pattern or drawing of the meter for liquids which an applicant wishes to manufacture or import.

Article 3 As for testing the prototype of the meter for liquids, 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 meter for liquids shall be accurate,

¹ Published in the Government Gazette, Volume 141, Special Part 258 d, Page 8, dated 17th September B.E. 2567 (2024).

precise and in compliance with the Notification of the Ministry of Commerce regarding the prescription on the type and characteristic of the meter for liquids, the detail of materials used for manufacture, maximum permissible error 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 meter for liquids prior to the technical test under (2), by inspecting the external appearance of the prototype of the meter for liquids in order to check that it is accurate, complete and neither defective nor abnormal. Indicating devices, zero setting devices and an associated device, e.g. a vapor eliminator, a filter, a pump, a valve or a pipe shall be in ready condition for the operation in order to increase confidence in the result of accurate and precise measurement. The measurement of the volume of liquid and the indication of the result of the prototype of the meter for liquid shall operate accurately, precisely and continuously. The detail and indication of various values on the prototype of the meter for liquids shall be provided 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.

(2) Technical Test. It is the test on the accuracy and precision of the prototype of the meter for liquids, whereby the test shall be done according to the following rules and procedures:

(a) Accuracy Test at Minimum Measured Quantity : MMQ. It is the test on the accuracy and precision of a measuring system by measuring a liquid quantity at the minimum quantity which can be measured by the system correctly. In this regard, the accuracy test at the minimum measured quantity of the system of the prototype of the meter for liquids shall be done pursuant to the checklist as provided in Table 2 as attached to this Notification.

(b) Accuracy Test. It is the test on the accuracy and precision of the prototype of the meter for liquids by comparison with a standard at various flow rates. In this regard, the accuracy test on the prototype of the meter for liquids shall be done pursuant to the checklist as provided in Table 3 as attached to this Notification.

(c) Repeatability Test. It is the test on the capability of a system in measuring the value of a liquid quantity and indicating the result of the prototype of the meter for liquids at a flow rate used for testing for three consecutive times, whereby the prototype of the meter for liquids shall indicate values in an accurate and precise manner. In this regard, the repeatability test on the prototype of the meter

for liquids shall be done pursuant to the checklist as provided in Table 3 as attached to this Notification.

Article 4 When the test unit has already carried out the test on the prototype of the meter for liquids under Article 3, it is required to make a test report pursuant to Form ThorSor. 3052/3054-8 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 : 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 meter for liquid.

Given on the 16th Day of August B.E. 2567 (2024)

Wattanasak Sur-iam

Director-General of the Department of Internal Trade