

Notification of the Ministry of Commerce

Regarding Prescription of Type and Characteristic of Rice Moisture Analyzer, Detail of Materials Used for Manufacture, Maximum Permissible Error and Term of Verification

In order to prescribe the type and feature of rice moisture analyzer to be clear and standardized, resulting in the fairness to all parties pertinent to the purchase - sale, the Weights and Measures Committee had resolution at the meeting No. 3/2561 on Tuesday, 18 December B.E. 2561 (2018) to prescribe the type and feature of rice moisture analyzer.

By virtue of Section 5, paragraph two of Section 8, Section 16, Section 26 and Section 33 of the Measurement Act, B.E. 2542 (1999), as amended by the Measurement Act (No.3), B.E. 2557 (2014), the Minister of Commerce, upon the recommendation of the Weights and Measures Committee, has therefore issued this Notification, as follows.

Article 1. This Notification shall come into force upon the expiration of sixty days from the date of its publication in the Government Gazette.¹

Article 2. In this Notification:

“Rice” means paddy, steamed paddy, milled rice, steamed milled rice, brown rice, and steamed brown rice;

“Rice Moisture Analyzer” means the instrument which is used to measure the moisture rate of rice while being still, the instrument can immediately display the result of measure of the moisture rate, but not including the rice moisture analyzer, which consists of a weighing machine, and applies the heat of an electric bulb or an electric wire to get rid of water from the rice;

“Sample Rice” means the rice derived from the random of rice which shall be measured to search the moisture rate;

“Standard” means the rice moisture analyzer in the type of standard;

¹ Published in the Government Gazette, Volume 136, Special Part 76 d, Page 1, dated 26 March B.E. 2562 (2019).

“Moisture Rate” means the percentage of weight of water in the sample rice as compared to the weight of the sample rice;

“Principal Scale Marks” mean the difference rates between rates that represent two consecutive rates;

“Ancillary Device” means the device which is used to perform a particular function for being directly involved in measurement results, e.g. the printing device, the price displaying device, the overall result device, the scale conversion device, the thermometer, the rice pouring device or the rice measuring cup;

“Capacity” means the capacity of the rice moisture analyzer which can measure the moisture rate of grain;

“Indicating Device” means the part of the rice moisture analyzer which is used to display the moisture rate of the sample rice as measured;

“Error” means the result of measurement of the moisture rate of the rice moisture analyzer which deviates from the result of measurement of the moisture rate of standards;

“Range” means the range of measurement which the rice moisture analyzer can measure the moisture rate;

“Maximum Permissible Error : MPE” means the maximum deviation of the rice moisture analyzer as permitted.

Article 3. The following rice moisture analyzers are the instruments being subject to the Measurement Act, B.E. 2542 (1999), as amended by the Measurement Act (No.3), B.E. 2557 (2014),

(1) the paddy moisture analyzer which can measure the moisture rate at the maximum percentage of 35 only,

(2) the milled rice and brown rice moisture analyzer which can measure the moisture rate at the maximum percentage of 20 only,

(3) the rice moisture analyzer having the measure system in the type of electrical resistance which can measure the moisture rate at the maximum percentage of 20 only.

Article 4. The rice moisture analyzer which is used in purchasing – selling or exchanging goods with other person, or providing the service of measurement or using the instrument for the benefit of calculating considerations, taxes and fees, shall have the characteristic as specified in this Notification.

In the case of any person who wishes to produce or import the instrument, the characteristic of which differs from that as specified in this Notification, the instrument shall be examined by the Central Bureau. If the result of examination appears that the standard characteristic of the aforesaid instrument does not differ that as specified in this Notification and the instrument is approved by the Minister of Commerce, a competent official is required to give verification for the aforesaid instrument.

Article 5. The rice moisture analyzer shall be produced permanently. In addition, it shall not be simply used as a tool of fraud.

The rice moisture analyzer shall be produced from good materials. In addition, it shall be designed and produced in a manner that when it is used as usual, it can always operate accurately. The components of the instrument can operate continuously without defect, bend or deformation which affects the accuracy of the instrument. In the case of adjusting the instrument, the adjusted instrument is required to maintain the condition of accuracy appropriately and clearly has the characteristic of use in accordance with the type of rice as specified.

Article 6. The rice moisture analyzer shall provide a space for sealing in order to prevent the modification after the examination and verification. The instrument shall be modified or repaired after the sealing is destroyed.

Article 7. The accuracy of the rice moisture analyzer shall be subject to the maximum permissible error as specified in this Notification.

The maximum permissible error for granting the initial verification, the subsequent verification, the examination of the used rice moisture analyzer shall be subject to the stipulation in Article 13.

Article 8. The rice moisture analyzer shall display the following details on the instrument. Such details shall be easily read, clearly and hardly disappeared.

- (1) the name or the trademark of a producer, an importer or a seller,
- (2) the series and model of the instrument,
- (3) the maximum capacity of the instrument,
- (4) the quantity of the sample rice which is measured the moisture rate at each time,
- (5) the range of measurement of the instrument,
- (6) the range of temperature of using the instrument,

(7) Wordings “For measuring the moisture rate of rice (to specify the type of rice under this Notification) only”, by displaying such wordings in alphabets which shall be clearly read, the height of alphabets being not less than 4 millimeters.

The display of wordings under paragraph one shall be made in front of the instrument and above the indicating device in a manner that all parties relevant to the measurement can clearly see simultaneously. In this regard, the wordings shall be adhered and not easily peeled off.

Article 9. The rice moisture analyzer in the number of one instrument shall be used to measure the moisture rate of the rice in any type as specified only.

Article 10. The display of the moisture rate of the rice shall have the following characteristics.

(1) The indicating device shall display the rate of measurement in the digital indication, by showing that:

(a) numbers on the screen shall be clearly seen and easily read, the height of numbers being not less than 10 millimeters,

(b) if there are many places of the indicating device, every place shall display the same and accurate rate,

(c) the moisture rate shall be displayed in the end of the measurement procedure,

(d) the number of times of the measurement shall be specified (if any),

(e) the calculation and the display of the average rate of the result of measurement shall be made accurately (if any).

(2) The instrument which has the printing device shall have the following characteristics:

(a) the moisture rate shall be printed to match up with the indicating device,

(b) the moisture rate shall be printed when the measurement procedure has already been completed only.

(3) The instrument is required to display the accurate rate in the range of temperature of using the instrument as fixed by a producer. In this regard, the range of temperature of using the instrument shall cover the temperature at least from 10 degree Celsius to 40 degree Celsius.

(4) The principal scale marks of the indicating device or the printing device of the moisture rate shall not exceed 0.1 percent.

Article 11. In the case of the rice moisture analyzer which is used with the ancillary device which is separated from the instrument or combined with the instrument, the ancillary device shall have the following characteristics.

(1) The weighing machine to be used for determining the quantity of the sample rice to be tested shall have the principal scale marks of the weighing machine not exceeding 10 milligrams, by having the maximum error or the minimum error not exceeding 0.5 times of the principal scale marks of the weighing machine.

(2) The thermometer shall be suitable for the rice moisture analyzer and have the display to be detailly read up to 0.5 degree Celsius.

Article 12. The rice moisture analyzer shall have a manual guideline which shows the important details of the instrument, the using method, and other accessories.

Article 13. The maximum permissible error of the rice moisture analyzer shall have the following characteristics.

(1) The maximum permissible error for granting the initial verification and the subsequent verification shall have both positive and negative sides not exceeding 0.8 percent.

(2) The examination of the used rice moisture analyzer shall have both positive and negative sides not exceeding 1.0 percent.

Article 14. The rice moisture analyzer shall have the term of verification for two years as from the date of giving the verification.

In the case where the rice moisture analyzer is verified by a repairer, there shall be the term of verification for sixty days as from the date of granting the verification.

Article 15. All of the rice moisture analyzers under the Ministerial Regulation stipulating the instrument which is subject to the Measurement Act, B.E. 2542 (1999), the type, the feature, the detail of materials used for production, the maximum permissible error and the term of verification of weighing and measuring machines, and Rules and Procedures of Registration of Unique Mark (No.2), B.E. 2547 (2004), which have been verified prior to the date of this Notification coming into force, are still enforceable until the expiry date of the verification.

Given on the 11st Day of March B.E. 2562 (2019)

Chutima Bunyapraphasara

Deputy Minister of Commerce, acting for

Minister of Commerce