

केन्द्रीय मुहर विभाग -2

संदर्भ- : के मू वी-2/16: 2480 (Part 1)

05 09 2024

विषय: **IS 2480 (Part 1) : 2024** के **revision** के अनुपालन के दिशा निर्देश

यह उपरोक्त विषय के संदर्भ में है।

सक्षम अधिकारी द्वारा अनुमोदित दिशा निर्देश अनुपालन हेतु संलग्न है।

अनुरोध है कि दिशा निर्देशों का तत्काल प्रभाव से अनुपालन सुनिश्चित करें।

(अमित चौधरी)
वैज्ञानिक - डी

प्रमुख (के मू वी 2)

सभी क्षेत्रीय/शाखा कार्यालय/प्रयोगशालाएँ/ CHD/LRMD

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/16: 2480 (Part 1)

05 09 2024

Subject: Guidelines for implementation of Revised IS 2480 (Part 1):2024

This has reference to the subject mentioned above.

The Competent Authority has approved the enclosed Guidelines for implementation.

It is requested to ensure the implementation of the above Guidelines with immediate effect.

(Amit Choudhary)
Scientist D

Head (CMD-2)

All ROs/BOs/Labs/CHD/LRMD

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/16: 2480 (Part 1)

05 09 2024

Subject: Guideline for Implementation of revised IS 2480 (Part 1) : 2024 (General Purpose Glass Thermometers — Specification Part 1 Solid-Stem Thermometers)

1. Specification for General Purpose Glass Thermometers, Part I Solid-Stem Thermometers as per IS 2480 (Part 1) : 1983 is revised to General Purpose Glass Thermometers — Specification Part 1 Solid-Stem Thermometers as per IS 2480 (Part 1) : 2024.
2. The product is under voluntary certification with 1 Licence in operation under PRBO. There are no application for the IS pending in India.
3. IS 2480 (Part 1) : 1983 and IS 2480 (Part 1) : 2024 are under concurrent running till 22nd October 2024 and the last date for implementation of revised IS 2480 (Part 1) : 2024 is 22nd October 2024.
4. The major changes in the standard on account of the revision are given in the table below for the purpose of general guidance:

Major Changes in IS 2480 (Part 1) due to the revision-

Clause (as per Revised IS)	Remarks
2	New Clause added for References and subsequent Clauses renumbered
3	Column and table reference for schedule mark updated
5.1 and 5.2	New Clauses under Calibration and immersion added giving reference to IS 6274 for calibration, and defining preferred immersion as 75 ± 1 mm for Partial Immersion thermometer and adjustment of such thermometer at ambient temperature of (27 ± 2) °C.
6.1.2.2	Recommended thermometric liquids and the approximate temperature ranges has now been provided under Table 1 and the subsequent Tables renumbered. Kerosene oil has been added as thermometric liquid for temperature range from -20 to +150
6.2.2	New sentence <i>The plain top thermometers may be provided with a suitable plastic or rubber cap/ring</i> is added. The requirement for <i>diameter of the top finish of the thermometer shall not exceed that of the stem</i> and the requirement for ring in the case of ring top finish, that <i>the ring shall be in a plane at right angle to the line of sight when reading the thermometer</i> given at Cl 5.2.2 and 5.2.2.1, respectively (of IS 2480 (Part 1):1983) have been deleted
6.3.1.2	Word <i>smallest</i> has been added before the word <i>scale</i>
6.3.1.4	Use of <i>black/brown</i> pigment on the etched marking on the stem has now been provided in place of <i>black</i> pigment. The sentence <i>They (graduation lines) shall be of uniform thickness not exceeding 0.15 mm</i> has been deleted.
6.3.1.5	The requirement of graduation lines is provided under Cl 6.3.1.5 with the dimensions given under figure 2. It is now given that the lines shall be of uniform thickness. The maximum thickness of graduation lines is now provided as 0.25 mm in place of 0.15 mm earlier
6.2.4, Fig 1	Figure 1 replaced.
3.1, 6.3.1.1, 6.5, Table 2	New temperature ranges (- 100 to + 100 with smallest division 2 °C, - 10 to + 50 with 0.5 °C and 0.25 °C smallest divisions) have been added and accordingly the schedule mark renumbered. Minimum Distance from Bottom of Bulb to Start of Main Scale has

	been increased from 60 to 75 mm. Stem diameter range has been changed to 6 mm - 8 mm from 5.5 - 8mm. Note under the table 2 is modified to exclude Schedule mark 1, 2 and 3 from partial immersion. It is suggested to avoid use of kerosene as thermometric fluid in thermometers with Smallest division of 0.25 mm, due to low accuracy.
6.3.1.6	Fourth pattern of graduation having smallest scale division 0.25 °C, has been added, and accordingly, first sentence is modified to refer to four patterns instead of three
6.3.1.5, 6.3.1.6, 6.3.2, Figure 2	Figure 2 replaced
6.3.2.1 e)	A new series of figures under Figuring has been added as 5 °C, 10 °C, 15 °C and 20 °C for the smallest scale division of 0.25 °C (see E in Fig. 2).
6.6	Word <i>smallest</i> has been added before the word <i>scale</i>
6.7	New clause for Stability is added
7.2.1 d) & (f)	The year of manufacture has been added. The sentence is modified to <i>Immersion line on partial immersion thermometers, an indication of the immersion depth for which the thermometer is calibrated with the word "IMM" for example "75 mm IMM</i>
7.2.2	BIS Certification Marking Clause is updated for <i>Bureau of Indian Standards Act, 2016</i>
8	A new Clause on sampling plan for lot testing has been prescribed

5. The existing Product manual has been revised to incorporate the changes due to the revised IS and it is being circulated separately, through BIS website, as Product Manual Doc: PM/IS 2480 (Part 1)/2 September 2024.

6. The guidelines for implementation of the revised IS are as given below:

A. LICENSEES:

- i. Licensee shall implement the revised Indian Standard by 22nd October 2024. Any difficulty in implementation shall be brought to the notice of CMD-2 within 30 days from the date of issuance of these guidelines. BO shall ensure that the Licence is not under operation as per IS 2480 (Part 1) : 1983 (old standard) after 22nd October 2024. The status of implementation of the revised Indian Standard shall be confirmed by Head (BO) to CMD-II within two weeks of the last date of implementation of concurrent running.
- ii. New temperature ranges (- 100 to + 100 with smallest division as 2 °C, - 10 to + 50 with 0.5 °C and 0.25 °C smallest divisions) have been added. These are new varieties incorporated in the IS, which can be included through CSoL. Stem diameter range has been changed to 6 mm - 8 mm from 5.5 mm - 8mm. Minimum Distance from Bottom of Bulb to Start of Main Scale has been increased from 60 to 75 mm. Also, test for Stability has been added with the revision. Due to these, Licensee is required to submit evidence of conformity as per the revised IS through In-house Test Reports/ Independent Test Reports.
- iv. There has been addition of test for Stability. However, the equipment required is similar to the equipment required for the test of accuracy. Scope of the Licence shall be aligned as per the Revised Product Manual (for the smallest Division) based on the available independent Test Reports.
- v. Verification of implementation of the revised IS, shall be done in the next surveillance visit, preferably within 30 days of confirmation of implementation of the revised standard by licensee.

vi. If the Licensee fails to complete all actions by 22nd October 2024, it shall be dealt with as per the prevailing guidelines.

B. APPLICATIONS FOR GRANT OF LICENCE:

- i. Existing Applications where Sample has been submitted in the Laboratory/Test Report has been issued by the Laboratory may be processed as per the old standard or the revised standard. However, if the Applicant is desirous of considering the Application, as per the revised IS, a declaration may be obtained from the Applicant to that effect and the Application may be processed accordingly. An undertaking shall also be obtained from such Applicants that if the sample fails while considering the provisions of the revised IS, Licence will not be granted by BIS as per the old version.
- ii. Applications which are recorded henceforth may be processed as per the old standard / the revised Standard. Processing of Applications as per the old Standard, shall be permitted only upto 21st October 2024. For such cases Applicant shall give a declaration that they will implement the revised Standard by 22nd October 2024.
- iii. Beyond 22nd October 2024, no Licence shall be granted as per IS 2480 (Part 1) : 1983.

C. CHANGE IN SCOPE OF LICENCE:

- i. For change in scope of licence, the relevant provisions as given above for Applicants shall apply.
- ii. However, processing of such applications for change in scope of licence as per the old Standard shall be permitted only up to the date of implementation of the revised Standard.

7. No application for grant of licence and/or change in scope of licence shall be accepted or grant of licence/change in scope permitted as per IS 2480 (Part 1) : 1983 (Old IS) after 22nd October 2024.

8. BOs are requested to circulate this guideline to the licensees and applicants immediately within 7 days of issuance of this circular.

9. The above guidelines come into force with immediate effect.

(Amit Choudhary)
Scientist D

Head (CMD-2)
DDG(Certification)
Circulated to:

- i) All RO/BOs
- ii) All other concerned - through BIS intranet