

केंद्रीय मुहर विभाग-2

संदर्भ : कें.मु.वि-2/जी-73/16: 16240

10-04-2023

विषय: आई एस 16240:2023 Reverse Osmosis Based Point of Use Water Treatment System for Drinking Purposes के कार्यान्वयन के लिए विशावनिश

- 1) यह उपरोक्त के संदर्भ में है।
- 2) सक्षम अविकारी द्वारा अनुमोवदत वदशावन्देश अनुपालन हेतु संलग्न हैं।
- 3) सभी शाखा कार्यालयों से अनुरोध है की यह प्रॉडक्ट मानुयल जिसमें SAT भी संयुक्त है, को आवेदकों एवं अनुज्ञप्तिधारकोंको 7 दिन के भीतर भेजें।

(शौविक चंदा)
वैज्ञानिक-डी

प्रमुख, (कें.मु.वि.-2)

उपमहानिदेशक(प्रमाणन)

क्षेत्रीय/शाखा कार्यालयों को intranet माध्यम से परिचालित

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/G-73/16:16240

10-04-2023

Subject: Guidelines for implementation of IS 16240:2023 for Reverse Osmosis Based Point of Use Water Treatment System for Drinking Purposes

This has reference to the subject mentioned above.

The Competent Authority has approved the enclosed Guidelines for implementation.

All ROs/BOs are requested to ensure the implementation of the above Guidelines with immediate effect.

(Shouvik Chanda)
Scientist-D

Head (CMD 2)

DDG (Certification)

Circulated to: All ROs/BOs through BIS intranet

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/16:16240

10-04-2023

Subject: Guidelines for implementation of revised IS 16240:2023 and extension in implementation of Amendment No. 2 to IS 16240:2015 (Reverse Osmosis Based Point of Use Water Treatment System for Drinking Purposes — Specification)

1. This has reference to the Guidelines for implementation of Amendment No. 2 to IS 16240:2015 for Reverse Osmosis (RO) Based Point-of-Use (PoU) Water Treatment System for Drinking Purposes circulated vide CMD-2 circular of Ref: CMD-2/16:16240 dated 29-09-2022, wherein the concurrent running period for IS 16240:2015 with and without amendment no. 2 was till 24 March 2023. Now, considering the requests received and the present status of implementation of Amendment no. 02 to IS 16240:2015 by licensee, the concurrent running period for implementation of revised IS 16240:2015 with and without Amendment no. 2, has been extended till **15th December, 2023**.
2. Furthermore, IS 16240:2015(Amendment No. 1 and 2) has been revised as IS 16240:2023 for Reverse Osmosis Based Point of Use Water Treatment System for Drinking Purposes — Specification. IS 16240:2015(Amendment No. 1 and 2) and IS 16240:2023 for Reverse Osmosis Based Point of Use Water Treatment System for Drinking Purposes — Specification are under concurrent running till **15th December 2023** and the last date for implementation of revised IS 16240:2023 is **15th December 2023**, after which the old standard [IS 16240:2015(Amendment No. 1 and 2)] shall stand withdrawn
3. As on date there is only 01 licence for IS 16240:2015 (Reverse Osmosis Based Point of Use Water Treatment System for Drinking Purposes - Specification), which is operational under AHBO.
4. The significant changes in the standard due to revision of IS 16240:2015(Amendment No. 1 and 2) to IS 16240:2023 are as listed in the Table below and is given below for the purpose of general guidance. BOs shall ensure that the product conforms to all the requirements, as applicable, as per the revised IS 16240:2023.

Clause No. of IS 16240:2023	Changes due to revised IS 16240:2023
3.6 and 3.11	In the terminology clause, new terms, 'permeate' and 'reject water' have been incorporated
4.3.1	For TDS display, hand held TDS meter and IoT enabled display methods have been incorporated as alternative options to inbuilt TDS display meter
4.3.2	The RO system may have the following components additionally installed: a) Flushing Mechanism; b) Ultraviolet (UV) Disinfection Chamber/In Tank Sanitization; c) Ultrafiltration (UF) Membrane; d) TDS Control Valve;

	e) Mineraliser /Taste Enhancer Media f) Activated Carbon Media
6.3.1.3, 6.4.3 and Annex-A	a) Method of testing TDS reduction has been incorporated b) Method of test for recovery testing has been elaborated to incorporate details of influent challenge water preparation
6.3.1.3, Annex-C and Annex-D	Method of test for Microbiological Reduction has been elaborated
6.4.1	Requirement of recovery percentage has been increased from 20 percent to 40 percent in order to minimize water wastage
6.3.2.1, 6.3.3.1, B-1.3 and Table 1	Alternative test method has been incorporated for testing of MS-2 Coliphage (Virus)
6.6	Clauses on electrical safety and power supply have been updated
6.7 and Annex E	Hydrostatic testing has been revised, to differentiate between different zones of pressurization in the complete RO system
11(Marking)	In the revised IS 16240:2023, the following information is required to be additionally marked on each RO system: a) Address of the manufacturer or assembler of product; b) Date of manufacture of product; c) Rated recovery efficiency and corresponding water reject generation;

5. The existing Product manual (PM/IS 16240/ 4, March 2023) 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 16240/ 5, April 2023.

6. The guidelines for implementation of the revised IS 16240:2023 and Amendment No. 2 to IS 16240:2015, are as given below:

A. LICENSEES:

- (i) Licensees shall submit evidence of conformity to the modified requirements through In-house/Independent Test Reports or combination thereof, indicating conformity to all the requirements given in IS 16240:2023.
- (ii) Licensees shall implement the revised Indian Standard by **15th December 2023**. Any difficulty in implementation shall be brought to the notice of CMD-2 at the earliest, but in case atleast 30 days before the last date of implementation. BOs shall ensure that Licences are not under operation as per IS 16240:2015 (old standard) after **15th December 2023**. The status of implementation of IS 16240:2023, shall be confirmed by Head (BO) to CMD-II within two weeks of the last date of implementation of concurrent running.

- (iii) BOs shall verify the documentary evidences submitted by the licensees for their compliance as per IS 16240:2023 and shall issue endorsement with regards to switchover to IS 16240:2023.
- (iv) Verification of implementation of the revised IS, shall be done by the BO positively within 30 days of implementation of the revised IS by the licensee. Sample as per IS 16240:2023 shall be drawn during this verification visit as surveillance sample and got tested for possible tests in a third-party laboratory.
- (v) If the Licensee fails to complete all actions by **15th December 2023**, it shall be dealt 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 IS 16240:2015(with Amendment No. 1) / IS 16240:2015(with Amendment No. 1 and 2) / revised IS 16240:2023. Processing of Applications as per IS 16240:2015(with Amendment No. 1) / IS 16240:2015(with Amendment No. 1 and 2), shall be permitted only upto **15th December 2023**. For such cases, Applicants shall give a declaration that they will implement the revised IS 16240:2023 by **15th December 2023**.
- (iii) Beyond **15th December 2023**, no Licence shall be granted as per IS 16240:2015.

C. CHANGE IN SCOPE OF LICENCE:

- (i) For change in scope of licence, the relevant provisions as given above for Applicants shall apply.

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

(Shouvik Chanda)
Scientist D

Head (CMD-2)
DDG(Certification)

Circulated to:

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