

**भारतीय मानक ब्यूरो
(केंद्रीय मुहर विभाग III)**

हमारा संदर्भ : सी एम डी - III/16 : IS 14333

29 दिसंबर 2022

विषय : पुनरीक्षित आई एस 14333:2022 के अनुपालन के लिए दिशानिर्देश ।

इसमें ऊपर उल्लिखित विषय का संदर्भ है।

सभी शाखा कार्यालय से आग्रह है कि गाइडलाईन का अनुपालन तत्काल प्रभाव से सुनिश्चित करें।

(ए के कअंर)
वैज्ञानिक-सी (सी एम् डी-III)

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सभी क्षेत्रीय /शाखा कार्यालय

**BUREAU OF INDIAN STANDARDS
(Central Marks Department-III)**

Our Ref: CMD-III/16 : 14333

29 Dec 2022

Subject: Guidelines for implementation of revised IS 14333:2022 - 'Polyethylene Pipes for Sewerage and Industrial Chemicals and Effluent'

This has reference to the subject mentioned above.

BOs may kindly ensure implementation of the guidelines with immediate effect.

(A K Kanar)
Sc-C (CMD-III)

Head (CMD-III)

Circulated to: All ROs/BOs

CENTRAL MARKS DEPARTMENT III

Our Ref: CMD-III/16 : 14333

29 Dec 2022

Subject: Guidelines for implementation of revised IS 14333:2022 - ‘Polyethylene Pipes for Sewerage and Industrial Chemicals and Effluent’

1. IS 14333:1996 has been revised as IS 14333:2022 and has been published. The last date for implementation of the revised Standard is **11 June 2023** after which the old Standard shall stand withdrawn.
2. All BOs shall inform the Applicants and Licensees under their jurisdiction about implementation of the revised Standard **within a week of issuance of these guidelines**.
3. The significant changes in the revised Standard as listed in the Table is given for the purpose of general guidance. BOs shall ensure that the product conforms to all the requirements, as applicable, as per the revised Standard.

Clause	Requirement
1	The scope has been extended to include polyethylene pipes for industrial chemicals
Title	As polyethylene pipes are designated by their MRS and PE pipes for industrial chemicals have also been covered, the earlier nomenclature of high density polyethylene pipes for sewerage has been changed to polyethylene pipes for sewerage and industrial chemicals and effluents
6.1.4.1	Overall service design coefficient of minimum 1.25 and operating temperature of 30 °C was only covered, which has been revised to cover allowable operating pressure (working pressure) chart for temperature up to 60 °C and overall service design coefficient of 1.25, 1.6 and 2.0
8.1, 8.5, 8.7, 8.8 & 8.9	Tests such as hydrostatic strength for 100 and 1 000 h (Cl 8.1), slow crack growth rate test (Cl 8.9), tensile strength for butt fusion (Cl 8.7), oxidation induction time (Cl 8.5), and elongation at break (Cl 8.8) have been included for pipes based on IS 4984 : 2016
6.1.3	The range of nominal diameter has been increased from 1 000 mm to 2 500 mm. Wall thicknesses have been specified based on Standard Dimension Ratio (SDR)
1.6	Pipe stiffness properties for different MRS and SDR pipes have been added for guidance for ascertaining pipe external load bearing capability
Table-2	Tests for oxidation induction time, volatile matter content and water content for resin have been included
1.5	Chemical resistance of polyethylene and its compatibility with various fluids and its performance in different general uses has been recommended based on IS 16268/ISO TR 10358
5.2 & 5.3	Requirements of raw materials – resin (Cl 5.2) and carbon black master batch (Cl 5.3) have been modified
5.5	Quantity of own rework material has been reduced to 5% from 10%.
6.1.4	Pressure Rating PN 20 has been included
6.1	Standard Dimension Ratio (SDR) has been included in pipe designation.

7.4	Dimensions of pipes have been modified
10.1	Markings on pipe have been modified and format of batch number on the pipe has been specified.

4. Consequent upon the issuance of the revised Standard, existing SIT in the Product Manuals has been revised and included in the revised Product Manual as Doc: **PM/IS 14333/2/Dec 2022**.

5. The guidelines for implementation of the revised Standard is given below:

A. LICENSEES:

- (i) All Licensees shall implement the revised Standard by **11 June 2023**. Any difficulty in implementation shall be brought to the notice of CMD III at the earliest but in any case, at least 30 days before the last date of implementation. BOs shall ensure that no Licences are under operation as per the old Standard after **11 June 2023**. The status of implementation of the revised Standard shall be confirmed by Head (BO) to CMD-III within two weeks of the last date of concurrent running.
- (ii) As Standard Dimension Ratio (SDR) has been included in pipe designation, the scope of existing licensees may be reviewed and endorsements may be issued accordingly.
- (iii) Licensees shall submit the declaration of the varieties as per the new version of the Standard and submit the evidence of conformity to the additional/modified requirements through In-house/Independent Test Reports. Licensee shall also to submit the declaration of additional manufacturing and testing capabilities as per the new version of the Standard. Licensees shall also submit the conformity of the modified requirements of raw materials through Test Certificates or independent test reports, as applicable. Verification of implementation of the revised Standard shall be done through a surveillance visit, which shall be completed within one month from the date of confirmation of implementation by the manufacturer. During such visit, additional test facilities and manufacturing capabilities, if applicable, shall be verified and reported.
- (iv) If the Licensee fails to complete all actions by **11 June 2023**, 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. However, if the Applicant is desirous of considering the Application as per the revised Standard, 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 in new test requirements, 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 or the revised Standard. Processing of Applications as per the old Standard shall be permitted only upto **11 June 2023** and for such cases, Applicant shall give a declaration that they will implement the revised Standard by **11 June 2023**.
- (iii) Beyond **11 June 2023** no Licence shall be granted as per the old Standard.

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 upto the date of implementation of the revised Standard or upto **11 June 2023** whichever is earlier.
6. The above guidelines come into force with immediate effect.

Ashish K Kanar
Sc-C/Dy Dir, CMD-III

Head (CMD III)
DDG (Certification)