

भारतीय मानक ब्यूरो
(केंद्रीय मुहर विभाग III)

हमारा संदर्भ : सी एम डी - III/16 : IS 15450

28 जून 2022

विषय : पुनरीक्षित आई एस 15450:2022 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 : 15450

28 June 2022

Subject: Guidelines for implementation of revised IS 15450:2022 - 'Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot & Cold Water Supply'

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 : 15450

28 June 2022

Subject: Guidelines for implementation of revised IS 15450:2022 - 'Polyethylene-Aluminium-Polyethylene Composite Pressure Pipes for Hot & Cold Water Supply'

1. IS 15450:2004 has been revised as IS 15450:2022 and has been published. The last date for implementation of the revised Standard is **16 Dec 2022** after which the old Standard shall stand withdrawn.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
4	Pipe designation has been defined based on the outside diameter (OD) as against nominal inside and outside diameter followed earlier, as per standard practice followed in other Indian Standards for plastic pipes.
9.1	Nominal pipe sizes, 63 mm (OD) and 75 mm (OD) which are being used in the country have been added.
5.2, 5.3	Requirement of PE material & UV stabilizer to be used for manufacture of pipes have been modified.
5.4	Grade of aluminium strips has been specified
5.4	Aluminium strip thickness as well as total wall thicknesses have been revised
11.8.2	Layer separation test for adhesion has been included for pipe sizes 40 mm OD and above
Annex A	Guideline for outside storage has been updated and guidelines for supply, handling, transportation and storage of PE-Al-PE composite pipes have been added. Requirements of connectors and fittings for use with PE-Al-PE composite pressure pipes have been updated and additional tests have been included
14.1.1	Details to be mentioned under batch number has been specified
11.7	Resistance to weathering test is added
11.9	Requirement of apparent tensile strength has been modified for all sizes except 16, 20 & 25mm OD
11.10	Requirement of burst pressure has been modified for 40 & 50mm OD
11.11.1	Temperature and test pressure condition in short term hydraulic pressure test have been modified for various sizes of pipes
11.11.2	Test pressure condition in long term hydraulic pressure test has been increased from 0.8 to 0.9 MPa for 50mm OD

4. Consequent upon the issuance of the revised Standard, existing SIT in the Product Manual has been revised and included in the revised Product Manual Doc: **PM/IS 15450/2/Apr 2022**.
5. The guidelines for implementation of the revised Standard is given below:

A. LICENSEES:

- (i) All Licensees shall implement the revised Standard by **16 Dec 2022**. 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 **16 Dec 2022**. 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 the pipe designation has been defined based on the outside diameter (OD) as against nominal inside and outside diameter followed earlier, the scope of existing licensees may be reviewed and endorsements may be issued accordingly.
- (iii) The revised Standard has added a new test, i.e. Resistance to weathering test which is a long duration test with testing time 2 years 42 days. Towards the compliance of resistance to weathering test, the changeover to the revised Standard shall be processed based on an undertaking for long duration test that, in the event of non-conformity of the sample in resistance to weathering test or its inability to submit the test report immediately but not later than 30 days (one month) from the date of test report confirmed by the laboratory, the licence shall be processed for cancellation. In case resistance to weathering test is carried out in-house, the status of testing of the same shall be verified and mentioned in the report during surveillance visit.
- (iv) Licensees shall submit evidence of conformity to the additional/modified requirements (except resistance to weathering test) through In-house/Independent Test Reports or Test Certificates, as applicable. Verification of implementation of the revised Standard shall be done through special 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 shall be verified and reported.
- (v) If the Licensee fails to complete all actions by **16 Dec 2022**, 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 **16 Dec 2022** and for such cases, Applicant shall give a declaration that they will implement the revised Standard by **16 Dec 2022**.

(iii) Beyond **16 Dec 2022** 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 **16 Dec 2022** 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)