

## केन्द्रीय मुहर विभाग – III

हमारा संदर्भ- केन्द्रीय मुहर विभाग-III/16: IS 784

28 March 2019

विषय: अनुपालन हेतु गाइडलाइन

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

(एस डी राणे)  
वैज्ञानिक 'ई' (सी एम डी-III)

प्रमुख (सी एम डी-III)

सभी क्षेत्रीय/शाखा कार्यालय

आई टी एस विभाग — बीआईएस इंटरनेट पर अपलोड करने हेतू

## CENTRAL MARKS DEPARTMENT-III

Our Ref: CMD-III/16: IS 784

28 March 2019

**Subject: Guidelines for implementation of Revised IS 784 : 2019 'Prestressed Concrete Pipes (Including Specials)**

This has reference to the subject mentioned above.

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

(S D Rane)  
Sc-E (CMD III)

Head (CMD - III)

Circulated to: All ROs/BOs

Copy to: ITSD - For hosting on BIS Intranet please

### CENTRAL MARKS DEPARTMENT III

Our Ref: CMD III/16: 784

27 March 2019

**Subject: Guidelines for implementation of Revised IS 784 : 2019 ‘Prestressed Concrete Pipes (Including Specials)**

1. IS 784 : 2001 has been revised as IS 784 : 2019 and has been published. The last date for implementation of the revised Standard is 04/09/2019 after which the old Standard shall stand withdrawn.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	Modification
4.2	Silt content for natural sand ( 3%) and crushed sand (10%) specified separately
4.6	Minimum yield for steel for cylinder specified as 250 N/mm <sup>2</sup> , also steel equivalent to IS 2062 is permitted
4.7.3	Requirement for natural rubber composition is deleted
5.1 Table 1	Note 2 modified with permission for manufacturing of higher diameter of pipes beyond 2500 mm  Note 3 added defining requirement for thickness of pipes of sizes in between the specified diameter
5.2	Effective length requirement for cylinder and non-cylinder pipes revised.
5.3.1	Tolerance for length of cylinder pipes revised to 2.5%
5.3.2.1 5.3.2.2	Tolerance on internal diameter on pipes of effective length 3 meter and above 3 meter is revised
7.8.1	Design for cylinder prestressed pipes is added as annex.
8.1.2	Minimum cement content in concrete revised to 450 kg/m <sup>3</sup> and water cement ratio as 0.45 max
8.3.3	Minimum wire diameter for longitudinal reinforcement is specified

8.4.2	Requirement for prestressing by die method is deleted
8.4.6	Diameter of circumferential wire is specified
8.4.7	Conversion factor for establishing relation between concrete cube strength and strength of concrete in pipes for spun pipe, requirement added
9.1.2.1	Duration of test pressure specified as 1 minute
10.4	Restriction for use of chaulking method for joining for pipes suitable upto 3 kg/cm <sup>2</sup> pressure rating is withdrawn
13.1	Typical arrangement for testing of Design proving and manufacturing process approval test in factory is given in Annex-L
13.2	Requirement for hydrostatic factory test for Non-cylinder pipes and cylinder pipes defined separately
13.3	Permission for retesting of pipes for permeability test added
13.7	Requirement for Boiling absorption test on coating mortar added
13.8	Requirement for Pressure permeability test added
15.1.4	Fig 3 is modified
Annex-B	Note below table for indicative dimensions of socket deleted
Annex-C	Requirement for soil investigation and soil data in enquiry form added
Annex-H	Annex-H on winding process by die method replaced by Cylinder pipe-winding by process of counter weight break
Annex-L	Typical test setup for designing proving test added

4. Consequent upon the issuance of the revised Standard, existing STI has been revised as Doc: SIT/784/1, March 2019.

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

**A. LICENSEES:**

- (i) All Licensees shall implement the revised Standard by 04/09/2019 BOs shall ensure that no Licences are under operation as per the old Standard after 04/09/2019. **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) Licensees shall submit evidence of conformity to the additional/modified requirements through In-house/Independent Test Reports or Test Certificates, as applicable. Verification of implementation of the revised Standard, wherever required, may be done during the next visit **which may normally be completed within six months of the last date of concurrent running.**
- (iii) If the Licensee fails to complete all actions by 04/09/2019, 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 from such Applicants also be obtained that 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 04/09/2019 and for such cases Applicant shall give a declaration that they will implement the revised Standard by 04/09/2019.
- (iii) Beyond 04/09/2019 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 04/09/2019 whichever is earlier.
6. The above guidelines come into force with immediate effect.

**(S D Rane)**  
**Sc-E**

Head (CMD III)

**DDG (Certification)**