

केन्द्रीय मुहर विभाग – III

हमारा संदर्भ- केन्द्रीय मुहर विभाग-III/16: IS 4989

17 जनवरी 2019

विषय: अनुपालन हेतु गाइडलाइन

सभी शाखा कार्यालय से आग्रह है कि गाइडलाइन 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 4989

17 January 2019

Subject: Guidelines for implementation of Revised IS 4989 : 2018 'Foam concentrate for producing mechanical foam for fire fighting'

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

CENTRAL MARKS DEPARTMENT III

Our Ref: CMD III/16: 4989

14 January 2019

Subject: Guidelines for implementation of Revised IS 4989 : 2018 'Form Concentrate for Producing Mechanical Foam for Fire Fighting'

1. IS 4989 : 2006 and IS 4989 (Part 4) : 2003 has been amalgamated and revised as IS 4989 : 2018 and has been published. The last date for implementation of the revised Standard is 19 June 2019 after which the old Standards shall stand withdrawn.
2. All BOs shall inform the Applicants and Licensees under their jurisdiction about implementation of the revised Standard.
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																																			
-	IS 4989 : 2006 and IS 4989 (Part 4) : 2003 amalgamated and revised as IS 4989 : 2018.																																			
3.1	New varieties in Type AFFF, FP, AR AFFF, AR FFFP, AR FP and SF are included in the revised Standard.																																			
3.2	Application is restricted to top application.																																			
6.5	Shelf life of foam concentrate added																																			
7.1	Requirement for declaration of Freeze protected foam and fluorocarbon surfactant at (h) and (j) added in marking clause.																																			
8, 8.8.1 & 8.2	Requirement for nonpolar and polar solvent fire specified																																			
Table 1	Following are changes in Table 1 : <table border="1" style="margin-left: 20px;"><thead><tr><th>Requirement</th><th>AFFF</th><th>PF</th><th>FFFP</th><th>SF</th></tr></thead><tbody><tr><td>P_H</td><td style="text-align: center;">-</td><td style="text-align: center;">Modified</td><td style="text-align: center;">Modified</td><td style="text-align: center;">Modified</td></tr><tr><td>Sp Gravity</td><td style="text-align: center;">Modified</td><td style="text-align: center;">Modified</td><td style="text-align: center;">Modified</td><td style="text-align: center;">Modified</td></tr><tr><td>Viscosity</td><td style="text-align: center;">Modified</td><td style="text-align: center;">-</td><td style="text-align: center;">Modified</td><td style="text-align: center;">Modified</td></tr><tr><td>Sludge content</td><td style="text-align: center;">-</td><td style="text-align: center;">-</td><td style="text-align: center;">Modified for after ageing</td><td style="text-align: center;">-</td></tr><tr><td>Surface tension</td><td style="text-align: center;">Added</td><td style="text-align: center;">-</td><td style="text-align: center;">Added</td><td style="text-align: center;">-</td></tr><tr><td>Spreading coefficient</td><td style="text-align: center;">Added</td><td style="text-align: center;">-</td><td style="text-align: center;">Modified</td><td style="text-align: center;">-</td></tr></tbody></table>	Requirement	AFFF	PF	FFFP	SF	P_H	-	Modified	Modified	Modified	Sp Gravity	Modified	Modified	Modified	Modified	Viscosity	Modified	-	Modified	Modified	Sludge content	-	-	Modified for after ageing	-	Surface tension	Added	-	Added	-	Spreading coefficient	Added	-	Modified	-
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Table 2	Expansion requirement for existing type , 25 % Drainage time, requirement of fire test on hydrocarbon fires (Non-Polar) and Polar solvent fires are modified.
Annex-A	Method for visual examination and ageing /conditioning of foam concentrate solution – Added
Annex-B	Method of P _H testing modified.
Annex-C	Preparation of sample for type 1, 3 and 6 specified separately.
Annex-F	For Sludge content test, sample preparation and test method modified.
Annex-G	Surface tension test – Sample preparation and test method modified Interface tension test – test procedure modified.
Annex-J	Method of test for expansion and drainage time modified.
Annex-K	Fire performance test modified

4. Consequent upon the issuance of the revised Standard, existing STI has been revised as Doc: SIT/4989/1, January 2019 .

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

A. Licensees:

- (i) All Licensees shall implement the revised Standard by 19 June 2019. BOs shall ensure that no Licences are under operation as per the old Standard after 19 June 2019.
- (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 additional facilities, if any, may be done during the next visit.
- (iii) If the licensee is holding licences as per IS 4989 : 2006 and IS 4989 (Part 4) : 2003, these licences shall be merged into one licence and the licensee may retain one of the licence number and second licence number shall be processed for cancellation. If the firm is holding one licence either as per IS 4989 : 2006 or IS 4989 (Part 4) : 2003, same shall be changeover to revised IS 4989 : 2018.
- (iv) If the Licensee fails to complete all actions by 19 June 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 19 June 2019 and for such cases Applicant shall give a declaration that they will implement the revised Standard by 19 June 2019.
- (iii) Beyond 19 June 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 19 June 2019 whichever is earlier.
6. The above guidelines come into force with immediate effect.

S D Rane
Sc-E

Head (CMD III)

DDG (Certification)