

केन्द्रीय मुहर विभाग-2

हमारा संदर्भ : सीएमडी-2/16: 8887

10 07 2018

विषय : आई एस 8887:2017 की संशोधित एस टी आई

1. आई एस 8887:2017 की संशोधित एस टी आई अवलोकन हेतु संलग्न है।

(अदाने खासी)
वैज्ञानिक सी (सीएमडी-2)

प्रमुख (सीएमडी-2)

सभी क्षेत्रीय/शाखा कार्यालयों/पीसीडी को परिचालित

आई टी एस विभाग – बीआईएस इंटरनेट पर अपलोड करने के लिए

CENTRAL MARKS DEPARTMENT -2

Ref: CMD-2/16:8887

10 07 2018

Subject: Revised STI for IS 8887: 2017

1. Please find enclosed revised STI for IS 8887: 2017 for kind consideration.

Khrasi)

(Adane

2)

Scientist C (CMD-

Head (CMD-2)

Circulated to: All ROs/BOs/PCD

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**SCHEME OF TESTING AND INSPECTION FOR
BITUMEN EMULSION FOR ROADS (Cationic Type)
ACCORDING TO IS 8887 : 2017
(Third Revision)**

1. LABORATORY

- 1.1** A laboratory shall be maintained, which shall be suitably equipped and staffed, where different tests given in the specification shall be carried out in accordance with the method given in the Indian Standard.
- 1.2** All test apparatus/measuring instruments shall be periodically checked, verified and calibrated and records of such checks/verification/calibration shall be maintained.

2. TEST RECORDS

- 2.1** All records of the tests as per this Scheme of Testing and Inspection shall be kept in suitable forms approved by Bureau.
- 2.2** Copies of any such records that may be required by BIS shall be made available at any time on request.

3. QUALITY CONTROL

- 3.1** It is recommended that, as far as possible, Statistical Quality Control (SQC) methods may be used for controlling the quality of the product during production as envisaged in this Scheme [See IS 397 (Various parts)].
- 3.2** In addition, efforts should be made to gradually introduce a Quality Management System in accordance with IS/ISO 9001.

4. STANDARD MARK

- 4.1** The standard mark as given in column (1) of the First Schedule of the licence shall be stenciled on each container and / or printed on the label applied to the container; provided that the material in each container to which this mark is thus applied conforms to every requirement of the specification.

5. MARKING

- 5.1** Each container shall be legibly and indelibly marked with the following information:
- a) Name of the manufacturer and recognised trade mark, if any;
 - b) Name of the material;
 - c) Type / Grade;
 - d) Volume or Net weight of the material in the container;
 - e) Batch number;

- f) 'Made in India', if required;
- g) Month & year of manufacture;
- h) Date of expiry,
- i) BIS Licence No. CM/L.....
- j) BIS website details : www.bis.gov.in

5.2 Other details of packing and marking shall be in accordance with instructions given by the purchaser.

6. LEVELS OF CONTROL

6.1 The tests as indicated in Table 1, and at the levels of control specified there in shall be carried on the whole production of the factory covered by this Scheme and appropriate records and charts maintained in accordance with paragraph 2 above. All the production which conforms to the standards and covered by this licence shall be marked with certification mark of the Bureau.

7. CONTROL UNIT

7.1 For the purpose of this Scheme, the Bitumen Emulsion of a particular type /grade of setting produced in a shift shall constitute a **control unit**.

7.2 The **control unit** shall be considered fit for the purpose of marking if sample taken from control unit and tested as in Table 1 is found to conform to the relevant requirements of the specification.

7.3 In case the sample fails to conform to any of the requirements as laid down in the specification, the entire material in the **control unit** shall be considered as unfit for the application of the Certification Mark of the Bureau. The **control unit** could, however, be reprocessed and then retested for compliance with the specification.

8. RAW MATERIAL

8.1 Bitumen may be tested as per IS 73 and appropriate records maintained. In respect of all other clauses for the specification, the factory will maintain appropriate controls and checks to ensure that their finished product conforms to the specification.

9. REJECTION

A separate record providing the detailed information regarding the rejected control unit and mode of their disposal shall be maintained. Such material shall in no case be stored together with that conforming to the specification.

10. SAMPLES

- 10.1** The licensee shall supply, free of charge, the sample(s) required in accordance with the Bureau of Indian Standards (Certification) Regulations from the factory or godown. The BIS shall pay for the samples taken by it from the open market.

11. REPLACEMENT

- 11.1** Whenever a complaint is received soon after the goods with Standard Mark have been purchased and used, and if there is adequate evidence that the goods have not been misused, defective goods or their components are replaced or repaired free of cost by the licensee in case the complaint is proved to be genuine and the warranty period (where applicable) has not expired. The final authority to judge the conformity of the product to the Indian Standard shall be with the Bureau.
- 11.2** In the event of any damages caused by the goods bearing the standard mark, or any claim being filed by the consumer against BIS Standard Mark and not “conforming to” the relevant Indian Standard, entire liability arising out of such non-conforming product shall be of the licensee and BIS shall not in any way be responsible in such cases.

12. STOP MARKING

- 12.1** The marking of the product shall be stopped under intimation to the Bureau if, at any time, there is some difficulty in maintaining the conformity of the product to the specification, or the testing equipment goes out of order or due to any other reason. The marking may be resumed as soon as the defects are removed under to intimation to BIS.

The marking of the product shall be stopped immediately if directed to do so by BIS for any reason. The marking may then be resumed only after permission by BIS. The information regarding resumption of markings shall also be sent to BIS.

13. PRODUCTION DATA

- 13.1** The licensee shall send to BIS a statement of quantity produced, marked and exported by him and the value thereof at the end of each operative year of the licence as per the enclosed proforma (Annex 1) which has to be authenticated by a Chartered Accountant.

IS: 8887:2017
BITUMEN EMULSION FOR ROADS (Cationic Type)
TABLE 1 LEVELS OF CONTROL
(Para 6 of the Scheme of Testing and Inspection)

Test Details				Levels of Control		
Clause	Requirements	Test Method		No. of samples	Frequency	Remarks
		Clause	Reference			
4.1	Bitumen	5	IS 73	One	Each Consignment	No further testing required if test certificate from manufacturer is available
6.1	Homogeneity	6.1	IS 8887:2017	One	Once in a Month	
6.2 & Table 1	i) Residue on 600 micron IS Sieve	Annex B	-do-	One	Each control unit	
	ii) Viscosity by Saybolt Furol Viscometer, At 25 ⁰ C At 50 ⁰ C	----	IS 3117	One	-do-	
	iii) Coagulation of emulsion at low temp	Annex C	IS 8887:2017	One	-do-	This requirement shall be applicable only under situation where the ambient temperature is below 15 ⁰ C.
	iv) Storage stability after 24 hrs.	Annex D	-do-	One	-do-	
	v) Particle charge	Annex E	-do-	One	-do-	
	vi) Coating ability and water resistance	Annex F	-do-	One	-do-	Applicable to MS Grade only
	vii) Stability to mixing with cement (% Coagulation)	Annex G	-do-	One	-do-	Applicable to SS-2 Grade only
	viii) Miscibility with water	Annex H	-do-	One	-do-	

	<p>ix) Test on residue</p> <p>a) Residue by evaporation</p> <p>b) Penetration 25⁰ C/100g/5 Sec</p> <p>c) Ductility 27⁰ C/cm</p> <p>d) Solubility</p>	Annex J	<p>IS 8887:2017</p> <p>IS 1203</p> <p>IS 1208</p> <p>IS 1216</p>	One	-do-	<p>Not applicable for SS-1 Grade</p> <p>Not applicable for SS-1 Grade</p> <p>Not applicable for SS-1 Grade</p> <p>Value of Solubility is determined on distillation residue at 360⁰ C for SS-1 Grade</p>
	<p>x) Distillation in percent volume of distillate recovered at 360⁰ C at</p> <p>1)190⁰ C</p> <p>2)225⁰ C</p> <p>3)260⁰ C</p> <p>4)316⁰ C</p> <p>5)Residue at 360⁰ C</p>	-----	IS 1213	One	-do-	Applicable to SS-1 Grade only
	xi) Water content	----	IS 1211	One	-do-	-do-

ANNEX 1
PROFORMA FOR OBTAINING PRODUCTION DETAILS

Period covered	
Name of Licensee	
CM/L No.	
Name of Articles (s)	IS No.
Grade/Type/Size/Variety/Class/Rating	
Brand/Trade/Name(s) of Product covered under BIS Certification Mark	
Total production of the articles(s) licensed for certification marking	
Total production of the article(s) conforming to Indian Standard	
Production covered with BIS Certification Mark and its Value :	
a) Quantity	
b) Value (Rs.)	
Brand Name used on production covered under BIS Certification Mark	
Calculation of marking fee on unit-rate basis; Marking Fee per unit	
a) Unit*	
b) Quantity covered with BIS Certification Mark	
c) Marking fee rounded off in whole rupees as obtained by applying unit rates given in (a) on quantity given in (b)	
Quantity not covered with BIS Certification Mark, if any.	
Reasons for such non-coverage	
Brand Name under which non-ISI goods were sold	
Quantity exported with BIS Standard Mark and its value	
Brand Name under which BIS Certified goods are exported	
Authentication by Chartered Accountant	