Doc: SIT/1117/1
Feb 2019

केन्द्रीय मुहर विभाग-2

हमारा संदर्भ: के मू वी-2/16: 1117 25 02 2019

विषय: संशोधित IS 1117:2018 की एस आई टी (Scheme of Inspection and Testing)

1. यह उपरोक्त विषय व 07 01 2019 को जारी किए गए कार्यान्वयन दिशा निर्देशों के संदर्भ मे है।

2. सक्षम अधिकारी द्वारा अनुमोदित संशोधित IS 1117:2018 की एस आई टी अनुपालन हेतु संलग्न है।

(आदित्य दास)
वैज्ञानिक सी

प्रमुख (के मू वी-2)

सभी क्षेत्रीय/शाखा कार्यालय

प्रतिलिपि :

आई टी एस विभाग – बी आई एस इंट्रानेट पर डालने हेतु

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/16: 1117 25 02 2019

Subject: Scheme of Inspection and Testing (SIT) for Revised IS 1117:2018

1. This has reference to the above and further to the implementation guidelines issued on 07 01 2019

2. Scheme of Inspection and Testing for Revised IS 1117:2018, duly approved by the CA, is enclosed for implementation.

(Aditya Das)
Scientist C

Head (CMD-2)

All ROs/BOs

SCHEME OF INSPECTION AND TESTING FOR CERTIFICATION OF LABORATORY GLASSWARE- SINGLE-VOLUME PIPETTES ACCORDING TO IS 1117:2018/ISO 648:2008 (Second Revision)

1. **LABORATORY** - A laboratory shall be maintained, which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare a calibration plan for the test equipments.

2. **TEST RECORDS -** The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. **PACKING AND MARKING** -The Standard Mark as given in Schedule of the license shall be inscribed on each pipette indelibly/permanently, provided always the laboratory glass ware single-volume pipettes thus marked conforms to all the requirement of the specification.

3.1 Marking and packing shall be done as per the provisions of the Indian Standard. If colour coding is used, it shall comply with the requirements of ISO 1769. In addition, BIS Licence number i.e. CM/L--- and details of BIS website shall be marked permanently and prominently on the external packaging as follows: “For details of BIS certification please visit www bis.gov.in”

4. **CONTROL UNIT –** For the purpose of this scheme, pipettes of the same class and nominal capacity produced in one day shall constitute a control unit.

4.1 On the basis of test results, decision shall be taken regarding conformity of the control unit as a whole to the requirements of the specification.

5. **LEVELS OF CONTROL -** The tests, as indicated in Table 1 and at the levels of control specified therein, shall be carried out 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 Indian Standard and covered by the licence shall be marked with the BIS certification Mark.

5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard mark.

6. **REJECTION -** Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016. A separate record providing the detailed information regarding the rejected control units and mode of their disposal shall be maintained, such material shall in no case be stored together with that conforming to the specification.

Table – I
Levels of Control-IS 1117:2018/ISO 648:2008- One Mark Pipettes (Second Revision)
(Para – 5 of the Scheme of Inspection and Testing)

Test Details				Test equipment requirement R:required (or) S: Sub-contracting permitted	Levels of Control		Remarks
Clause	Requirements	Test Method			No. of Samples	Frequency	
		Clause	Reference				
6	Maximum permissible errors	Table I	IS 1117:2018	R	Each Pipette	-	All the samples shall comply with the requirements
7.1	Material (Freedom from Visual defects and internal stress)	5.1	IS 1117:2018	R	-do-	-	-
7.1.1	Material (Chemical resistance and thermal properties of glass)		IS 2303 (Pt 1/Sec 1):2012/ISO 719	R	One	Every fifth control unit	See Note 2
7.2	Shape	7.2	IS 1117:2018	R	Each Pipette	-	-
7.3	Bulb	7.3	-do-	R	-do-	-	
7.4	Dimensions	Table 2, 3 & 4	-do-	R	Two Pipettes	Every hour	
7.5	Top of pipette	7.5	-do-	R	-do-	-	
7.6	Delivery jet	7.6	-do-	R	-do-		
7.7	Delivery time	7.7	-do-	R	Two	Each control unit	
7.8	Waiting Time	7.8	-do-	R	-do-	-do-	For class AS pipes
8	Graduation line	8	-do-	R	-do-	-do-	
9	Setting of the meniscus	5.4	IS 8729:2018/ISO 384:2015	R	-do-	-do-	

11	Visibility of graduation line, figures and inscriptions	11	-do-	R	-do-	-do-	

Note-1: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.

Note 2- If the sample fails in the requirement of Material (Chemical resistance and thermal properties of glass) as per Cl 7.1. of IS 1117:2018, the control unit shall not be marked and one sample from the subsequent control units shall be tested until five consecutive control units are found to be satisfactory, whereupon the original frequency of one sample from every fifth control unit shall be resumed.