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उत्पाद मानुयल
LACTOMETERS
IS 9585 : 2021 के अनुसार

PRODUCT MANUAL
FOR LACTOMETERS
ACCORDING TO IS 9585 : 2021

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरण के प्रचलन में रीति और पारदर्शिता के सुसंगत सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेंस धारियों द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस लाइसेंस/प्रमाण पत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

1.	उत्पाद Product	:	IS 9585 : 2021
	शीर्षक Title	:	LACTOMETERS - SPECIFICATION
	संशोधन संख्या No. of amendments	:	NIL
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	The bulb and stem shall be made of clear glass, as far as possible, free from visible defects and shall be well annealed. The glass shall be neutral and have sufficient resisting power against mechanical influences, in particular, against scratches and against corrosion by common chemicals. The external surface of the stem shall be finished smooth and free from irregularities. The lactometer shall be loaded by means of lead shots, or other

			suitable loading material embedded in a suitable cementing material, in the base of the bulb. The lead shots, or other suitable loading material, shall be securely fixed in position so that there is no loose material in the bulb. The cementing material used shall not soften at 80 °C (Mercury may be used in place of lead as a loading material but it should be confined in the lower portion of the bulb.)
b)	समूहिकरण दिशा निर्देश Grouping Guidelines	:	Not Applicable
c)	नमूने का परिमाण Sample Size	:	2 PIECES
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX – <u>A</u>
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX – <u>B</u>
5.	एक दिन में संभावित परीक्षण Possible tests in a day: All		
6.	लाइसेन्स का कार्यक्षेत्र/Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 9585 : 2021 with the following scope:		
	Name of the product	Lactometers	

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ANNEX - A
LIST OF TEST EQUIPMENT

Major test equipment required to test as per the Indian Standard

Sl. No.	Test Equipment	Tests used in with Clause Reference
1	Lactometer Jars conforming to Cl. 12 of IS 9585	Size Cl. 3
2	Protractor	Workmanship Cl. 6
3	Steel Scale Vernier Caliper Ball-ended Micrometer	Dimensions Cl. 7
4	Steel Scale Vernier Caliper Micrometer Anhydrous Sodium Carbonate Distilled Water Industrial Methylated Spirit (92%, ethanol) AC Thermometer conforming to Cl. 13 of IS 9585 Measuring Cylinder of capacity 50 ml Certified Lactometer Rectangular plate glass tank Pycnometer/Relative density bottle	Scale Cl. 8 and Accuracy of Scale Cl. 11

The above list is indicative only and may not be treated as exhaustive.

ANNEX - B

SCHEME OF INSPECTION AND TESTING

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.

1. PACKING AND MARKING — Each lactometer shall be marked with the Standard Mark as given in Column(1) of the First Schedule of the license provided always that each lactometer so marked conforms to every requirement of the standard.

3.1 In addition, inscriptions as per Cl. 10 of IS 9585:2021 shall be marked on the paper bearing the scale or on the label fixed inside the bulb. When the inscriptions are marked on the paper bearing the scale, they shall not encroach upon the space occupied by the scale and shall not intersect any of the graduation marks on numbers

3.2 In addition, the following shall be marked on the package of lactometer

- (i) Identification Number (batch number) and date of manufacturing to enable tracing back to factory's records, and
- (ii) For BIS Certification details, visit www.bis.gov.in.

3. CONTROL UNIT – For the purpose of this Scheme, All lactometers manufactured under identical conditions with same raw material in one day shall constitute a control unit for the purpose of tests according to this scheme.

4. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

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

5. REJECTIONS – 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.

TABLE 1
LEVELS OF CONTROL

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub- contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
3	Size	3	IS 9585	R	Each Piece	-	
4	Form	4	IS 9585	R	Each piece		
5	Material of Construction (Visual)	5.1 to 5.3	IS 9585	R	Each piece		
5	Material of Construction (Softening point of cementing material)	5.3	IS 9585	S	One	Each consignment	No testing is required if material is accompanied with supplier's test certificate
6	Workmanship	6.1 to 6.6	IS 9585	R	Each Piece	-	
7	Dimensions	7	IS 9585	R	Each Piece	-	
8	Scale	8.1 to 8.7	IS 9585	R	Each Piece	-	
8.2.1 and 11.2	Correction for scale errors	Appendix A	IS 9585	R	Each Piece		
9	Reference Mark	8.1	IS 9585	R	Each Piece	-	
10	Inscriptions	10	IS 9585	R	Each Piece	-	
11	Checking (Accuracy of Scale)	11.1	IS 9585	R	Each piece	-	

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-2: 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.

