



उत्पाद मैनुअल
माप विज्ञान - लम्बाई मापन उपकरण
भाग 2 इस्पात का मापन टेप
आईएस 1269 (Part 2): 1997 के अनुसार

PRODUCT MANUAL
LEGAL METROLOGY - MATERIAL MEASURES OF LENGTH
PART 2 STEEL TAPE MEASURES
According to IS 1269 (Part 2): 1997

यह उत्पाद नियमावली सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसधारियों द्वारा विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम, 2018 की योजना-1 के अंतर्गत प्रमाणन के संचालन में एकरूपता और पारदर्शिता सुनिश्चित करने के लिए संदर्भ सामग्री के रूप में उपयोग की जाएगी। बीआईएस प्रमाणन प्राप्त करने के इच्छुक भावी आवेदक भी इस दस्तावेज़ का उपयोग कर सकते हैं।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity 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.

1.	मानक संख्या / IS No.	:	IS 1269 (Part 2): 1997
	शीर्षक / Title	:	Legal metrology - Material measures of length Part 2 Steel Tape Measures
	संशोधनों की संख्या No. of amendments	:	01
2.	नमूनाकरण दिशानिर्देश / Sampling Guidelines		
a)	कच्चा माल Raw material	:	As per Clause 4 of IS 1269 (Part 2) <i>Note: This section indicates the requirements for raw material (if specified in the IS) for which compliance is to be established during Grant of Licence/Change in Scope of Licence/Factory Surveillance.</i>
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Please refer ANNEX – A
c)	नमूने का परिमाण Sample Quantity	:	03 tapes
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर Parameters to be Declared in Test Request	:	Same as the parameters given in scope of the licence under S. No. 6. <i>Note: Apart from the above, any other requirements/ parameters may also be declared as per the standard, as applicable.</i>
3.	परीक्षण उपकरण की सूची List of Test Equipment	:	Please refer ANNEX – B
4.	निरीक्षण एवं परीक्षण योजना Scheme of Inspection and Testing	:	Please refer ANNEX – C

5.	एक दिन में संभावित परीक्षण Possible tests in a day	:	• Construction (Cl. 5) • Graduations (Cl. 6) • General Requirements (Cl. 7.1) • Accuracy Class and Maximum Permissible Errors (Cl. 8) • Winding Device (Cl. 9) <i>Note: This section is for the guidance of BIS Certification Officers/ Technical Auditors of BIS Authorized Outside Surveillance Agencies (OSAs) during factory inspection to provide ready reference regarding the tests which can be witnessed during the inspection in the factory by the officer/ auditor.</i>
6.	लाइसेंस का दायरा / Scope of the Licence:		
“Licence is granted to use Standard Mark as per IS 1269 (Part 2): 1997 with the following scope:			
Name of the product		Steel Tape Measures of Length	
Nominal Length		As per Clause 3.1	
Accuracy Class		Class I / Class II / Class III (for nominal lengths above 5 m to 200 m only)	
Winding Device type		Automatic Winding Device / Hand Winding Device	

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ANNEX A

**समूहीकरण दिशानिर्देश
Grouping Guidelines**

1. Steel Tape Measures according to IS 1269 (Part 2): 1997 may be classified as below:

Nominal Length	As per Clause 3.1
Accuracy Class	Class I / Class II / Class III (for nominal lengths above 5 m to 200 m only)
Winding Device type	Automatic Winding Device / Hand Winding Device

2. Further, Steel Tape Measures may be further grouped as follows:

Group	Nominal Length	Accuracy Class
Group 1	0.5 m to 5 m	Class I / Class II
Group 2	Above 5 m to 200 m	Class I / Class II / Class III

3. Based on the above classification and grouping, following guidelines shall be followed for considering Grant of Licence (GoL)/Change in Scope of Licence (CSoL):
- Sample of Steel Tape Measures of any nominal length from each group shall be tested to cover Steel Tape Measures of all nominal lengths in that group.
 - If Sample of Steel Tape Measures of higher accuracy class in a group is tested, Steel Tape Measures of lower accuracy class (es) in that group may also be covered.
 - Steel Tape Measures with each winding device type shall be tested separately.
4. The Firm shall declare the varieties of Steel Tape Measures intended to be covered in the Licence. The Scope of Licence may be restricted based on the Manufacturing and testing capabilities of the Manufacturer.
5. During the operation of the Licence, BO shall ensure that all the varieties covered in the Licence are tested in rotation, to the extent possible.

ANNEX B

परीक्षण उपकरण की सूची

List of Test Equipments

(Indicative List, For Guidance Only)

Sl. No.	Cl. Ref.	Tests used in with Clause Reference	Test Equipment
1	5	Construction	- Micrometer - Vernier Caliper - Radius Gauge
2	9	Case Thickness	
3	6	Graduations	- Traveling Microscope with Magnification - Suitable Reference Scales for Length Measurement - Profile Projector / Magnifying Glass
4	8	Accuracy Class	
5	3.1, 8.3.2	Nominal length	- Horizontal plane surface - Facility for providing a stable tension of 50 N - Air conditioner
6	9.3	Winding Device load test	- Test rig/weights for providing a tension of 100 N - Stop Watch/Timer

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

ANNEX C

निरीक्षण एवं परीक्षण योजना

Scheme of Inspection and Testing

1. QUALITY ASSURANCE PLAN

1.1 It is expected that during operation of BIS licence manufacturers will implement a Quality Assurance Plan (QAP) i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan (QAP) defining the control unit (i.e. lot/batch etc.), the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and declare the arrangement for testing i.e. whether in-house or sub-contracting/ sharing for each applicable test and submit the same to BIS Branch Office for information. The manufacturer shall comply with the QAP and maintain test records in accordance with para 2.1.

1.3 Recommended Levels of Control/ Control Unit:

1.3.1 For the guidance of manufacturers, the recommended definition of control unit is: *entire quantity of Steel Tape Measures of same accuracy class, same nominal length, having same type of winding device and manufactured in a day under similar process condition* shall constitute a control unit.

1.3.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in [Table 1](#). Manufacturer has the discretion of declaring their own levels of control or accept the levels of control given in this document.

1.3.3 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan.

1.4 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

2. ENSURING COMPLIANCE THROUGH TESTING

The manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard for which they may have in-house test facilities. However, there is no obligation to maintain in-house laboratory. Licensee may use alternative arrangements for tests of the production as per the declared QAP. Various alternatives are available for operation of BIS certification as given below and the relevant guidelines for availing such relaxations by the manufacturers, as amended from time to time, are to be referred:

- i) Shared testing resources like common facility,
- ii) Cluster based testing facility,
- iii) Sub-contracting to outside laboratories which may either be:
 - a) BIS recognized/ empanelled laboratories, or
 - b) Any accredited laboratory as per ISO/IEC 17025

2.1 Test Records- The manufacturers shall maintain test records for the tests carried out (either in-house or at a sub-contracted or at shared test facility) to establish conformity of the product to the Standard for operation of licence. For the tests being subcontracted or conducted at a shared test facility, test results issued by the laboratories or test facilities, shall be made available for inspection by BIS.

3. PACKING AND MARKING

The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on the product and packaging of the Steel Tape Measures provided always that the Steel Tape Measures so marked conforms to each requirement of the specification.

3.1 Marking of Steel Tape Measures shall be done as per Cl. 10 of IS 1269 (Part 2): 1997.

3.2 **Additional Marking requirements:** The Steel Tape Measures shall also be marked with the following additional requirement on its packaging:

a) "For BIS certification details please visit www.bis.gov.in"

4. REJECTION

The production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark. 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

(Recommended Levels of Control by BIS - for Guidance Only)

(1)				(2)		
Test Details				Levels of Control		
Cl.	Requirement	Test Method		No. of Sample	Frequency	Remarks
		Clause	Reference			
4	Material	5.1.3	IS 1269 (Part 2)	01	Each Control Unit	
3	Nominal length	3.1, 8.3	IS 1269 (Part 2)	01	Each Control Unit	
5	Construction	5.1 to 5.9	IS 1269 (Part 2)	Each Piece		
6	Graduations	6.1 to 6.5	IS 1269 (Part 2)	Each Piece		
		6.6 to 6.10	IS 1269 (Part 2)	05	Each Control Unit	
7	General Requirements	7.1 to 7.4	IS 1269 (Part 2)	Each Piece		
		7.5, 7.6	IS 1269 (Part 2)	05	Each Control Unit	
		7.7	IS 1269 (Part 2)	Each Container		
8	Accuracy Class & Maximum Permissible Errors	8.1, 8.2	IS 1269 (Part 2)	01	Each Control Unit	
9	Winding Device					
	Automatic Winding Device	9.1	IS 1269 (Part 2)	01	Each Control Unit	
	Hand Winding Device	9.2	IS 1269 (Part 2)	01	Each Control Unit	
	Winding Device Load Test	9.3	IS 1269 (Part 2)	01	Each Control Unit	
10	Marking	10.1 to 10.3	IS 1269 (Part 2)	Each Piece		
11	Provision of Stamping	11	IS 1269 (Part 2)	Each Piece		