



**PRODUCT MANUAL FOR
CYLINDRICAL METAL MEASURES FOR USE IN
TESTS OF AGGREGATES AND CONCRETE
ACCORDING TO IS 10079 : 1982**

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	Product	: IS 10079 : 1982
	Title	: CYLINDRICAL METAL MEASURES FOR USE IN TESTS OF AGGREGATES AND CONCRETE
	No. of Amendments	: NIL
2	Sampling Guidelines:	
a)	Raw material	: As per clause 3.1 of IS 10079 : 1982
b)	Grouping guidelines	: Please refer ANNEX – A
c)	Sample Size	: Cylindrical metal measure - 1 No Accessories - Tamping Rod/ Tamping Bar (As applicable) - 1 No
3	List of Test Equipment	: Please refer ANNEX – B
4	Scheme of Inspection and Testing	: Please refer ANNEX – C
5	Possible tests in a day	: All tests possible in a day
6	Scope of the Licence :	
	Licence is granted to use Standard Mark as per IS 10079 : 1982 with the following scope:	
	Name of the product	CYLINDRICAL METAL MEASURES FOR USE IN TESTS OF AGGREGATES AND CONCRETE
	Capacity	3/10/15/20/30 Litres
	Accessories (As applicable)	Tamping Road/Tamping Bar

ANNEX A
Grouping Guidelines

1. IS 10079 : 1982 covers cylindrical metal measures for use in tests of aggregates and concrete of different capacities. These are grouped as given below:

	Group 1	Group 2
Capacity	3 and 10 litres	15, 20 and 30 litres

2. Considering the above, following grouping guideline is developed for GoL/CSoL:
- a) One sample of any size of cylindrical metal measure from each group shall be tested for all requirements to cover all sizes of covered in that group.
 - b) Sample of tamping rod/tamping bar shall be tested to cover same in the scope of the licence.
3. The Firm shall declare the varieties they intend to cover in the Licence. The Scope of Licence may be restricted based on the manufacturing and testing capabilities of the manufacturer.
4. During the operation of the Licence, BO shall ensure that all varieties covered in the Licence are tested in rotation, to the extent possible.

ANNEX B**List of Test Equipment***Major test equipment required to test as per the Indian Standard*

Sl. No.	Tests used in with Clause Reference	Test Equipment
1	Dimensions (Clause 4.1) Construction (Clause 5.1)	<ul style="list-style-type: none"> - Vernier caliper - Micrometer/Ultrasonic thickness gauge - Weighing balance/Volumetric measures of different capacities/Measuring cylinders of different capacities. - Height gauge - Inside/outside caliper (Optional) - Steel scale
2	Accessories (Clause 6.1 and 6.2)	<ul style="list-style-type: none"> - Steel scale - Vernier caliper - Weighing balance

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

ANNEX C

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 equipment.

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

3. LABELLING AND MARKING – As per the requirements of IS 10079 : 1982

4. LEVELS OF CONTROL – The tests as indicated in column 1 of Table 1 and the levels of control submitted by the manufacturer 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 Standard 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

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S:contracting permitted	Levels of Control		
Cl.	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
3	Material	3.1	IS 10079	-	One	Each lot received	Further testing is not required if material received with manufacturers test certificate
4	Dimensions	4.1	IS 10079	R	1	Each piece	-
5	Construction	5.1	IS 10079	R	1	Each piece	-
6	Accessories						
6.1	Tamping rod	6.1.1	IS 10079	R	1	Each piece	-
6.2	Tamping bar	6.2.1	IS 10079	R	1	Each piece	-

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.