



PRODUCT MANUAL FOR MOULDS FOR USE IN TESTS OF CEMENT AND CONCRETE ACCORDING TO IS 10086: 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 10086: 1982
	Title	:	Moulds for Use in Tests of Cement and Concrete
	No. of Amendments	:	5
2.	Sampling Guidelines:		
a)	Raw material	:	Clause 3.1 and Table 1 of IS 10086: 1982.
b)	Grouping guidelines	:	Mould/Accessory of each type and size shall be tested to cover that Mould/Accessory in the Scope of Licence.
c)	Sample Size	:	Qty- 1 Piece.
3.	List of Test Equipment	:	Please refer ANNEX - A
4.	Scheme of Inspection and Testing	:	Please refer ANNEX - B
5.	Possible tests in a day:		
	<ul style="list-style-type: none"> (i) Dimension and Tolerances (Clause 4.1) (ii) Construction (Clause 5/1) (iii) Special Requirements (Clause 5.2) (iv) Arrangement for Fastening/Clamping (Clause 5.3) (v) Accessories (Clause 6) 		
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 10086: 1982 with the following scope:		
	Name of the product	Moulds for Use in Tests of Cement and Concrete	
	Type and size of Mould		
	Type and size of Accessories		

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

Sl. No.	Tests used in with <i>Clause</i> Reference	Test Equipment
1.	Dimensions and Tolerances (Clause 4)	<ul style="list-style-type: none"> - Vernier Calliper - Micrometer - Bevel Protector
2.	Construction (Clause 5.1)	<ul style="list-style-type: none"> - Straight Edge - Filler Gauges - Dial Height Gauge - Dial Bore Gauge
3.	Special requirements (Clause 5.2)	<ul style="list-style-type: none"> - Dial Indicator (Plunger Type) - Plain Plug Gauge (GO- NOGO) - Plunger Dial Gauge
4.	Accessories (Clause 6)	<ul style="list-style-type: none"> - Steel Scale - Weighing balance - Right angle - Hardness tester

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.

3. LABELLING AND MARKING – As per the requirement of IS 10086: 1982

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

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl	Requirements	Test Method			No. of Samples	Frequency	Remarks
		Clause	Reference				
3.1	Material	3.1, Table 1	IS 10086	S	One	Each consignment	Record of conformity of material as per clause 3.1 of IS 10086 shall be maintained
4.1	Dimensions and Tolerances	4.1, Table 2 to 5, Fig 1 to 8	IS 10086 IS 2102	R	Each mould	-	-
5	Construction a) General b) Special requirements c) Special requirements	5.1, 5.2, 5.3	IS 10086	R	Each mould	-	-
6	Accessories						
6.1	Tamping Rod	6.1, Fig 9, 10	IS 10086	R	Each tamping rod	-	-
6.2	Gauging Trowel	6.2, Fig. 11	IS 10086	R	Each gauging trowel	-	-
6.3	Trowel	6.3, Fig. 11	IS 10086	R	Each trowel	-	-

Note-1: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

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.