



**उत्पाद मैनुअल
आई एस 650:1991 के अनुसार
सीमेंट के परीक्षण के लिए स्टैंडर्ड सैंड के लिए**

दस्तावेज़ संख्या – पी एम/ आई एस 650/2/ जुलाई 2023

भारतीय मानक ब्यूरो की स्कीम-I (अनुरूपता मूल्यांकन) विनियम, 2018 के तहत यह उत्पाद मैनुअल प्रमाणीकरण के प्रचालन में रीति और पारिश्रिता की सुसंगतता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसी द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस प्रमाणीकरण लाइसेंस/ प्रमाणपत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है।

**PRODUCT MANUAL FOR STANDARD SAND FOR
TESTING CEMENT ACCORDING TO IS 650 : 1991**

Document No- PM/ IS 650/2/July 23

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.

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1.	Product	:	IS 650 : 1991
	Title	:	STANDARD SAND FOR TESTING CEMENT
	No. of Amendments	:	2
2.	Sampling Guidelines:		
a)	Raw material	:	Source of sand shall be from locations specified in clause 3 of IS 650 : 1991
b)	Grouping guidelines	:	Sand of each size fraction as per clause 4.2 shall be tested to cover that size in the scope of licence
c)	Sample Size	:	2 kg of each size fraction for all tests
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 :		
	(i) Physical characteristics (Clause 4.2) (ii) Chemical requirement (Clause 5.1)		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 650 : 1991 with the following scope:		
	Name of the product	STANDARD SAND FOR TESTING CEMENT	
	Size fraction		

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ANNEX A**List of Test Equipment**

Major test equipment required to test as per the Indian Standard

S. No.	Tests used in with Clause Reference	Test Equipment
1	Physical characteristics (Clause 4.2)	- IS sieves - 2 mm, 1 mm, 500 micron and 90 micron
2	Chemical requirements (Clause 5.1)	- Drying oven - Weighing balance - Porcelain disc - Distilled water - Water bath - Covered crucible - Hydrochloric acid - Stop watch - pipette

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 equipment.

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

3. LABELLING AND MARKING – As per Clause 6 of IS 650: 1991. Batch/control unit number, brand name, manufacturer's location, date of manufacturing and source shall also be marked on the package containing standard sand. The Standard Mark, as given in the Schedule of the licence, shall be marked on the package of standard sand, provided always that the package containing standard sand thus marked conforms to all the requirements of the specification. In addition, the licence no. CM/L-_____and details of BIS website shall be marked on the package of standard sand as follows: "For details of BIS certification please visit www.bis.gov.in".

4. CONTROL UNIT – Standard Sand of same size fraction produced in one hour from raw material received from same source shall constitute a control unit.

5. 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.

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

6. 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.	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
4	Physical Characteristics						
	Visual inspection	4.1	IS 650	R	Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
	Sieve analysis	4.2	IS 650	R	One	Each control unit	-
5	Chemical requirements	5.1 5.1.1	IS 650	R	One	Daily for each size fraction and source of raw material	-

Note: 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.