



**PRODUCT MANUAL FOR
MARBLES (BLOCKS, SLABS AND TILES)
ACCORDING TO IS 1130 :1969**

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 1130 : 1969
	Title	:	Marble (Blocks, Slabs and Tiles)
	No. of Amendments	:	Nil
2.	Sampling Guidelines :		
a)	Raw material	:	Not applicable
b)	Grouping guidelines	:	Please refer ANNEX A
c)	Sample Size	:	Marble – Block/Slab - 1 No Marble – Tiles – 4 Nos
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 :		
	(i)	General Requirements (Clause 4.1)	
	(ii)	Sizes and Tolerance (Clause 5 and 6)	
	(iii)	Hardness (Clause 7.1)	
	(iv)	Workmanship (Clause 8)	
6.	Scope of the Licence:		
	Licence is granted to use Standard Mark as per IS 1130: 1969 with the following scope:		
	Name of the product	Marble	
	Shape	Block/Slab/Tiles	
	Classification	Broad classification / Classification/Sub-classification and Source of Marble	
	Finish	(i) Sand and /or Abrasive finish (ii) Hone Finish and (iii) Polished finish	
	Size		

ANNEX A
Grouping Guidelines

1. Marbles (Blocks, Slabs and Tiles) as per IS 1130: 1969 are categorized as given below:

a) Classification (As per clause 3.2 and Appendix A) :

Broad Classification	Classification	Sub - Classification	Source of Marble
White Marble	Plain white marble	Makrana First Quality	Chosira, Doongri, Pahar Kuwan and Bhot
		Makrana Second Quality	Chosira, Pahar Kuwan, Doongri and Ulodi Doongri
		Abu White Marble	Ambaji
	Abu Panther Marble	-	Ambaji
	White Veined Marble	Makrana Doongri Adanga Marble	Doongri and Pahar Kuwan
		Makrana Chak Doongri Marble	Chak Doongri
		Abu White Veined Marble	Ambaji
Coloured Marble	Black Marble	Plain Black Marble	Bhainslana
		<i>Black Zebra Marble</i>	
		a) Bhainsiana Black Zebra Marble	Bhainslana
		b) Kishangarh Black Zebra Marble	Kishangarh
		c) Abu Zebra Marble	Abu
		d) Narnaul Zebra Marble	Narnaul
		e) Makrana Dhobi Doongri Zebra Marble	Dhobi Doongri
	Green Marble	Baroda Green Marble	Baroda
		Abu Green Marble	Ambaji
		Falna Green Marble	Falna
		Bundi Green Marble	Umar (Bundi)
	Pink Marble	Plain Pink Marble	Makrana and Bar
		<i>Pink Adanga Marble</i>	
		a) Makrana Pink Adanga	Makrana
		b) Bar Pink Adanga Marble	Bar
	Grey Marble	Kumari Grey Marble	Makrana
		Bundi Grey Marble	Umar (Bundi)
		Brown Marble	Bar Brown Marble
	Narnaul Brown Marble		Narnaul

b) Finish (applicable for marble slabs and tiles):

- (i) Sand and /or Abrasive finish
- (ii) Hone Finish
- (iii) Polished finish

c) Geometrical Size/Shape:

Geometrical Shape	Sizes		
	Length	Width	Thickness
Blocks	30 to 250 cm (In stages of 10 cm)	30 to 100 cm (In stages of 10 cm)	30 to 100 cm (In stages of 10 cm)
Slabs	70 to 250 cm (In stages of 10 cm)	30 to 100 cm (In stages of 10 cm)	20 to 150 mm (In stages of 10 mm)
Tiles	60 × 60 cm, 50 × 50 cm, 40 × 40 cm, 30 × 30 cm, 20 × 20 cm, 10 × 10 cm		18 to 24 mm in the same piece

Note: The sizes other than those mentioned above may be supplied as agreed to between the supplier and the purchaser.

2. Considering the above, following grouping guidelines for GoL/CSoL have been developed:

- a) One sample of Block of any size shall be tested for size (Clause 5 of IS 1130: 1969) to cover blocks of all sizes.
- b) One sample of Slab of maximum thickness shall be tested for size and workmanship requirement (Clause 5 and 8 of IS 1130: 1969) to cover Slabs of all sizes for thickness upto and including the thickness tested.
- c) One sample of Tile of any thickness shall be tested for size and workmanship requirement (Clause 5 and 8 of IS 1130: 1969) to cover Tiles of all sizes.
- d) One sample of Marble (used for manufacturing blocks/slabs/tiles as at 2 a, b, c above) from each classification and sub-classification and from each source shall be tested for physical requirements as per clause 7, Table 1 to cover that classification and sub-classification for that particular source of marble.
- e) For Slabs and Tiles, if sample of higher grade of finish is tested, sample of other lower grades of finish may also be included in the scope of the licence i.e if Polished finish is tested, then Hone finish and Sand and/or Abrasive finish may also be included and if Hone finish is tested, Sand and/or Abrasive finish may also be included.

3. The Firm shall declare the varieties intended to be covered in the Licence. The Scope of Licence may be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.

4. During operation of license, BOs shall ensure that all the 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	Test used in with clause reference	Test Equipment
1	Sizes (Clause 5), Tolerances (Clause 6)	a) Vernier caliper b) Micrometer /Screw gauge c) Measuring tape d) Steel scale
2	Moisture absorption after 24 immersion in cold water (Clause 7.1)	a) Drying oven b) Heating apparatus of inert material c) Weighting Balance d) Stone crusher e) IS sieve 20 mm and 10 mm f) Cylindrical measuring Glass jar 1000ml & 100 ml g) Glass Vessel of 1.5 litre capacity h) Desiccator i) Dry absorbent cloth
3	Hardness (Clause 7.1)	a) Mohs scale b) Reference minerals as per Mohs' Scale
4	Specific gravity (Clause 7.1)	a) Analytical Balance b) Drying oven c) Specific gravity Bottle with stopper d) Weighting Bottle and desiccator e) Thermometer f) Weighing balance g) Stone crusher h) 3 mm sieve i) 150 micron sieve j) Magnet
5	Workman ship (Clause 8.3)	a) Light /Gloss meter (recommended to check the polished finish). b) Right angle (Tri square)

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 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 requirements of IS 1130: 1969

4. CONTROL UNIT – All Blocks or Slabs or Tiles of same size manufactured from same marble received from same source and of similar structure, under similar condition of manufacturing 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 Standards 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	General Requirements	4.1	IS 1130	-	Each block/slab/tile	-	-
5	Size and tolerance	5.1 to 5.3, 6.1	IS 1130	R	Five from each shape manufactured	Each Control Unit	-
7, Table 1	Physical properties						
	i. Moisture absorption	7.1	IS 1130 IS 1124	R	One	From each lot of base marble rock of similar structure and classification and sub-classification received from same source in a consignment. In case of failure of sample in any physical requirement, additional two samples from same lot of marble received shall be tested and lot shall be accepted if both the samples pass.	
	ii. Hardness	7.1	IS 1130	R	One		
	iii. Specific gravity	7.1	IS 1130 IS 1122	R	One		
8	Workmanship	8.1, 8.2, 8.3	IS 1130	R	Each block/slab/tile	-	-

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.