



**उत्पाद मैनुअल
आईएस 5758:2020 के अनुसार
पूर्वढलित कंक्रीट कर्ब, चैनल, एजिंग, क्वाड्रेंट्स व अन्य
सम्बन्धित फिटिंग के लिए**

दस्तावेज संख्या - पीएम/ आईएस 5758/1/ अप्रैल 2021

भारतीय मानक ब्यूरो की स्कीम-1 (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 दस्तावेज का उपयोग किया जा सकता है।

**PRODUCT MANUAL FOR
PRECAST CONCRETE KERBS, CHANNELS, EDGING,
QUADRANTS AND OTHER ASSOCIATED FITTINGS
ACCORDING TO IS 5758: 2020**

Document No.- PM/ IS 5758/1/Apr 2021

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.

भारतीय मानक ब्यूरो
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1.	Product	:	IS 5758 : 2020
	Title	:	PRECAST CONCRETE KERBS, CHANNELS, EDGING, QUADRANTS AND OTHER ASSOCIATED FITTINGS
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	As per Clause 7 of IS 5758
b)	Grouping guidelines	:	Please refer ANNEX – A
c)	Sample Size	:	10 units
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:		
	- Shape and dimensions (clause 4) - General (clause 9.1) As the licence is operated on Factory Testing basis, complete testing of a sample shall be done in factory. 4 mandays are required for complete testing.		
6.	Scope of the Licence:		
	Please refer ANNEX – D		

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ANNEX - A

Grouping Guidelines

1. IS 5758:2020 covers Precast Concrete Kerbs, Channels, Edging, Quadrants and Other Associated Fittings which are classified as given below:
 - (a) Kerbs
 - Straight Kerb
 - Transition Kerb
 - Dropper Kerb
 - (b) Channels
 - Channel Square
 - Channel Dish
 - (c) Edgings
 - Profile Edging
 - Round Top Edging
 - Flat Top Edging
 - (d) Quadrants
 - (e) Angles
 - Internal Angle
 - External Angle
 - (f) Offlets
 - (g) Radiussed Kerbs
 - Convex
 - Concave

Units of sizes other than those specified in Table 2 of IS 5758:2020 may also be used by mutual agreement between the purchaser and the supplier. In case of special units, the specified sizes may not necessarily apply.

2. Considering the above, the guidelines given below shall be followed for GoL/ CSoL:
 - Each Unit (Kerbs/ Channels/ Edgings/ Quadrants/Angles/ Offlets/ Radiussed Kerbs) shall be tested separately.
 - Sample of any dimension from any sub-classification of each unit shall be tested for all requirements to cover all sub-classifications for that particular unit.
3. The Firm shall declare the varieties of Units 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 the types and sizes 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.	Size of aggregates (Clause 7.2)	Sieve set of IS Sieves: Designation- 80 mm, 40 mm, 20 mm, 10 mm, 4.75 mm, 2.36 mm, 1.18 mm, 600 μ , 300 μ and 150 μ
2.	Shape and Dimensions (Clause 4)	a. Vernier Caliper b. Steel Scale c. Measuring Tape d. Right Angle e. Straight Edge f. Radius gauge
3.	Bending Strength/ Compressive Strength Test (Clause 9.3)	a. Transverse Testing Machine b. Steel scale c. Vernier caliper d. Radius gauge e. Water tank (inside the lab) f. Air conditioner g. Clock/ watch h. Cloth
4.	Water Absorption (Clause 9.4)	a. Water tank (inside the lab) b. Ventilated Drying Oven c. Weighing balance d. Potable water e. Flat based vessel f. Stiff Brush g. Cloth, Cutter h. Vernier Caliper i. Watch/ Clock
5.	To maintain room temperature	a. Air conditioner

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 5758: 2020.

4. CONTROL UNIT – Every 2000 units or part thereof of Kerbs, Channels, Edgings, Quadrants and other associated fittings from each sub-classification manufactured from same source of raw materials in a week shall constitute a control unit.

5. 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.

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	Recommended Levels of Control		
Clause	Requirement	Test Methods Clause Reference			No. of Sample	Frequency	Remarks
7	Cement	7.1	IS 5758	S	-	-	Shall be ISI marked and received with test certificate.
7	Aggregates	7.2	IS 5758 IS 383	S R (for sieve analysis only)	One	Once in a year for each source and size	No further testing is required, if accompanied with test certificate or ISI marked.
7	Pulverised Fuel Ash	7.3	IS 5758 IS 3812 (Pt 1) IS 3812 (Pt 2)	S	One	Each consignment	
7	Ground Granulated Blast Furnace Slag	7.4	IS 5758 IS 16714	S	One	Each consignment	
7	Additives or Admixtures	7.5	IS 5758 IS 9103	S	One	Each consignment	
7	Pigments	7.6	IS 5758	S	One	Each consignment	
9	General (except angles of units)	9.1	IS 5758	-	Each Unit	-	-
	General (Angles of units)			R	Eight Units	Each control unit	-

9	Dimensions	9.2 & Annex-B	IS 5758	R	Eight Units	Each control unit	-
9	Bending Strength/ Compressive Strength	9.3 & Annex-C	IS 5758	R	Five Units	Each control unit	-
9	Water Absorption	9.4 & Annex-D	IS 5758	R	Three Units	Each control unit	-

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

Note-2: 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.

ANNEX - D**Scope of the Licence**

Licence is granted to use Standard Mark as per IS 5758 :2020 with the following scope:	
Name of the Product	Precast Concrete Kerbs/ Channels/ Edgings/ Quadrants/ Other Associated Fittings
Sub-classification	• Straight Kerb/ Transition Kerb/ Dropper Kerb • Channel Square/ Channel Dished • Profile Edging/ Round Top Edging/ Flat Top Edging • Quadrants • Internal Angle/ External Angle • Offlets • Convex Radiussed Kerb/ Concave Radiussed Kerb