



**PRODUCT MANUAL FOR
CROW-BARS AND CLAW-BARS
ACCORDING TO IS 704: 1984**

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 704: 1984
	Title	:	Crow-Bars and Claw-Bars
	No. of Amendments	:	2
2.	Sampling Guidelines:		
a)	Raw material	:	---
b)	Grouping guidelines	:	One sample of each Type of Bar (Clause 2 of IS 704) of any Dimension shall be tested for all requirements for considering GoL/CSoL of that particular Type.
c)	Sample Size	:	2 Pieces
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	:	All tests
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 704: 1984 with the following scope:		
	Name of the product	Crow-Bar / Claw-Bar	
	Type	As per Clause 2 of IS 704 (as applicable)	

ANNEX A**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 and Tolerances (Clause 3)	(i) Vernier Calipers (ii) Measuring Tape
2	Hardness (Clause 6)	Vicker's Hardness Testing Machine
3	Drop Test (Clause 8.1)	Drop Test Setup with a Height Measuring scale of 600mm
4	Static Load Test (Clause 8.2)	(i) Static Load Test Setup as per Clause 8.2 of IS 704 (ii) Load Weights
5	Falling Weight Test (Clause 8.3) <i>(Applicable to Claw Bars only)</i>	(i) Falling Weight Test Setup as per Clause 8.3 of IS 704 (ii) Load Weight of 64 kgf

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 704:1984.

4. CONTROL UNIT –All Crow-Bars/ Claw Bars of a particular type and size manufactured in a day under similar conditions of production 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 Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
5	Material	5	IS 704	S	1	Each Consignment	No further testing is required if received with test certificate or ISI marked
3	Shape, Dimensions and Tolerances	3.1, 3.2 & Table 1 to 9	IS 704	R	5	Each Control Unit	--
6	Hardness	6	IS 704	R	5	Each Control Unit	--
7	Manufacture and Finish	7	IS 704	R	Each Bar		--
8.1	Drop Test	8.1	IS 704	R	2	Each Control Unit	--
8.2	Static Load Test	8.2	IS 704	R	2	Each Control Unit	--
8.3	Falling Weight Test	8.3	IS 704	R	As per the agreement between purchaser and manufacturer.		
9	Preservative Treatment	9	IS 704	R	Each Bar		--

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 B.O. Head.