



**PRODUCT MANUAL FOR
SAFES
ACCORDING TO IS 550 (Part 1):2014**

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 550 (Part 1): 2014
	Title	:	Safes
	No. of Amendments	:	2
2.	Sampling Guidelines:		
a)	Raw material	:	As per Clause 6, 8 and Table 3
b)	Grouping guidelines	:	Please see ANNEX - A
c)	Sample Size	:	As per Clause 12.1 of IS 550 (Part 1): 2014
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) Dimensions and Sizes Cl 5		
	(ii) Construction and Workmanship Cl 8		
	(iii) Painting Cl 10		
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 550 (Part 1):2014 with the following scope:		
	Name of the product	Safes	
	Class	D/ C/ CC/ CCC/ BB/ A/ A+/ AA/ AAA/ X	
	Type	Double Door/ Single Door	
	Sizes		

ANNEX - A

GROUPING GUIDELINES

1. Safes as per IS 550 (Part 1): 2014 are classified as per the following:
 - Class: D, C, CC, CCC, BB, A, A+, AA, AAA and X
2. For considering GoL/ CSoL, Safe with highest Size from each Class shall be tested for all requirements to include all lower sizes in that Class.
3. However if Safes with Double Door are tested, Safes with Single Door having corresponding sizes and lower may also be covered.
4. The Manufacturer shall declare Sizes of the various Classes of Safes they intend to cover in the Licence along with the respective nominal weight.
5. The Scope of Licence may be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.
6. During the operation of Licence, it shall be ensured 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.	Tests used in with Clause Reference	Test Equipment
1	Dimensions and Sizes Cl 5& Table 1 Construction and Workmanship Cl 8	Steel Scale
		Measuring Tape
		Vernier Calliper
		Micro Meter
		Try Square
		Degree Protector
		Weight Bridge
2	Test for Locks Cl 8.6.3	Wire Gauge
		Arrangement for cycle test of locks, automated machine fitted with calibrated counter
3	Painting Cl 10	Coat Meter
4	Cross Hatch Test Cl 10.1	Sharp Metal Pointer, Transparent adhesive tape not less than 20 mm width

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 Clause 11 of IS 550 (Pt 1). In addition, Size, Serial Number (different from identification number of key) and nominal declared weight of safe shall also be marked.

4. CONTROL UNIT - Safes of same Class manufactured in one 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 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				
6	Material	6, 8, Table 3	IS 550 (Part 1)	S	One	Each consignment	No testing is required if the material is ISI Marked or accompanied with a test certificate.
5	Dimensions	5.1, 5.2, Table 2	IS 550 (Part 1)	R	One	Every 5 th safe or each control unit whichever is earlier	---
	Weight	Sl. no. vi of Table 2	IS 550 (Part 1)	R	Each safe		---
8	Construction and workmanship	8.1 to 8.6.2, 8.6.4 to 8.8	IS 550 (Part 1)	R	One	Every 5 th safe or each control unit whichever is earlier	---
	Test for locks	8.6.3	IS 550 (Part 1)	R	One	Every batch of lock manufactured or every consignment of lock received, subject to a minimum of 1 per month	A tested lock shall not be used in the product after testing. Appropriate records of such locks shall be maintained

9	Internal fixture	9	IS 550 (Part 1)	--	One	Every 5 th safe or each control unit whichever is earlier	---
10	Painting	10	IS 550 (Part 1)	R	One	Every 5 th safe or each control unit whichever is earlier	---
	Cross hatch test	10.1	IS 550 (Part 1)	R	One	One month's production	---
12	Test for conformity						These test are considered as type test and shall be carried out for initial approval of design or when any subsequent change in the design of the safes (including change in nominal declared weight). These tests shall also be carried out once in four years in such a manner that each class of safe for which the approval has been obtained is tested at least once in 4 years and shall cover the complete range of the product over a period of time.
	Burglary Resistance	12.1 to 12.5	IS 550 (Part 1)	S	One	Four years for each class	
	Fire Endurance*	12.1 to 12.3, 12.5	IS 550 (Part 1)	S	One	Four years for each class	
	Fire and Impact*	12.1 to 12.3, 12.5	IS 550 (Part 1)	S	One	Four years for each class	
	(* as applicable)						

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

Note-2: The control unit and levels of control as decided by the Bureau are obligatory, to which the licensee shall comply with.