



उत्पाद मैनुअल
आई एस 17566: 2021 के अनुसार
सुरक्षा उपकरणों हेतु की-लाक के लिए

दस्तावेज संख्या - पी एम/आई एस 17566/4/ नवम्बर 2025

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 दस्तावेज का उपयोग किया जा सकता है ।

**PRODUCT MANUAL FOR
KEY LOCKS FOR SECURITY EQUIPMENT
ACCORDING to IS 17566:2021**

Document No.- PM/IS 17566/4/November 2025

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 17566: 2021
	Title	:	Key Locks for Security Equipment
	No. of Amendments	:	Two
2.	Sampling Guidelines:		
a)	Raw material	:	As per Cl. 6 of IS 17566: 2021 Materials for various components used in manufacturing shall be declared along with their critical quality parameters and evidence of conformity in form of test certificates submitted
b)	Grouping guidelines	:	Please refer ANNEX – <u>A</u>
c)	Sample Size	:	10 Nos
3.	List of Test Equipment	:	Please refer ANNEX – <u>B</u>
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – <u>C</u>
5.	Possible tests in a day	:	Construction Test (Cl. 5), Bolt Forcing Test (Cl. 8.2), Key Strength Test (Cl. 8.4)
6.	Scope of the Licence:		
	Licence is granted to use Standard Mark as per IS 17566 :2021 with the following scope:		
	Name of Product	Key Locks for Security Equipment	
	Type	Type A(Lever lock)/Type B (Two Key Lock)/Type C (Cylinder Lock)	
	Grade	A1/A2/A3/A4/A5/A6/A7/A8/A9/A10/A11/A12/A13/A14/B1/B2/B3/ B4 / C1/C2/C3/C4/C5	

ANNEX A**Grouping Guidelines**

1. Key Locks for Security Equipment as per IS 17566:2021 are categorized into following for the purpose of GoL/CSoL:

Based on type

Type A- Lever Lock, **Type B-** Two Key Lock, **Type C-** Cylinder Lock

Further, each type covers various grades of lock. Based on number of differs, Active levers and key control, locks can be grouped as follows:

Sr No	Group	Grades
1.	Group 1	A1, A2
2.	Group 2	A3, A4
3.	Group 3	A5, A6
4.	Group 4	A7, A8
5.	Group 5	A9, A12
6.	Group 6	A10, A13
7.	Group 7	A11, A14
8.	Group 8	B1
9.	Group 9	B2
10.	Group 10	B3, B4
11.	Group 11	C1
12.	Group 12	C2, C3
13.	Group 13	C4, C5

2. Considering the above grouping of various grades, following guidelines shall be followed:
- Sample of each type of Lock shall be tested separately.
 - Separate sample from each group shall be tested as per sampling plan given below.
 - For grades grouped in Group1, Group 2, Group 3 and Group 4-** Sample of grade having “Dual key control” shall be tested to cover grade having “Single key control” also. For example, for group 3, sample of grade A6 shall be tested to cover both A5 and A6 grades.

- d) **For grades grouped in Group 5, Group 6 and Group 7-** Sample of grade having “Double bitted Dual key control” shall be tested to cover grade having “Double Bitted single key control” also.
For example, for group 6, sample of grade A13 shall be tested to cover both A10 and A13 grades.
 - e) **For grades grouped in Group 10-** Sample of grade B4 shall be tested to cover both B3 and B4 grades.
 - f) **For grades grouped in Group 12 and Group 13-** Sample of grade having “Two keys control” shall be tested to cover grade having “Single key control” also.
For example, for group 13, sample of grade C5 shall be tested to cover both C4 and C5 grades.
3. In case of change in material of part of Key Lock, separate samples as per the above sampling plan shall be drawn. In addition to the samples of different Grades drawn for independent testing during BIS visit as per above guidelines, factory test report of all other Grades, intended to be covered in scope shall also be submitted by manufacturer
4. The Firm shall declare the varieties of key locks intended to be covered in the Licence. The Scope of Licence shall be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.
5. During the operation of the Licence, BO 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.	Tests used in with Clause Reference	Test Equipment
1.	Construction as per Cl. 5	Vernier Caliper
2.	Endurance Test as per Cl. 8.1	Cycling Machine that can simulate the working of Lock by turn in both directions for number of cycles specified in 8.1
3.	Bolt forcing Test as per Cl. 8.2	a. Weights from 5kg to 50 kg b. Stop Watch c. Test Bench with screws for bolt forcing test
4.	Salt Spray Corrosion Test as per Cl. 8.3	a. Test solution b. pH paper/pH meter c. Salt spray Chamber d. Wall Clock/stop watch
5.	Key strength test as per Cl. 8.4	Torque testing equipment/Torque wrench

The above list is indicative only and may not be treated as exhaustive.

ANNEX C

Scheme of Inspection and Testing

1. QUALITY ASSURANCE PLAN

1.1 It is expected that manufacturers (licensees/applicants) will implement a Quality Assurance Plan i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan defining the control unit i.e. Batch and the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and submit the same to BIS Branch Office for information. The manufacturer shall comply with the same and maintain test records in accordance with para 2.4 below.

1.3 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT:

1.3.1 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in **Table 1**.

1.3.2 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan. Alternatively, the manufacturer has the option of adherence to the quality plan as per levels of control recommended in column 3 of Table 1.

1.4 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

2. ENSURING COMPLIANCE THROUGH TESTING- It is expected that manufacturers (licensees/applicants) will establish a suitably equipped and staffed in-house laboratory (In house testing facility) for testing at least those parameters of the Indian Standard which require routine testing for ensuring quality of the product. This includes in-process controls as may be defined and put in place by the manufacturer, and testing parameters/requirements which can only be performed in the factory.

2.1 For the guidance of manufacturers, Table 1 giving the recommended levels of control is given below. Column 2 of Table 1 indicates routine tests where test equipment is required in-house as “R” or other tests which can be sub-contracted as “S”. Subcontracting is permitted to BIS recognized/empanelled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.2 For MSME manufacturers, the requirement of maintaining a laboratory/in-house testing facility for routine tests (indicated as “R” in Column 2 of Table 1) is also optional.

2.2.1 MSME manufacturers may utilize common cluster based facilities as per guidelines for the utilization of cluster based test facilities by MSMEs or the provisions of Sharing of testing

facilities or get testing done from BIS recognized/empaneled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.3 Large Scale manufacturers shall maintain an in-house laboratory equipped at least with test facilities for routine tests (indicated as “R” in Column 2 of Table 1), where different tests given in the specification shall be carried out in accordance with the method given in the specification. They shall also implement a calibration plan for the in-house test equipment.

2.3.1 Alternatively, in lieu of an in-house laboratory, large scale manufacturers can also utilize the provisions of Sharing of testing facilities as per the Guidelines for Grant of Licence available on BIS website www.bis.gov.in. (Under Conformity Assessment>Product Certification Process). Even for subcontracted tests, provisions for sharing of testing facilities can be utilized.

2.4 TEST RECORDS- The manufacturers maintaining an in-house laboratory or utilizing common cluster based facilities or shared test facilities shall maintain test records for the tests carried out to establish conformity. For the tests being subcontracted to BIS recognized/empanelled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

3. LABELLING AND MARKING – As per the requirement of IS 17566: 2021.

The Standard Mark, as given in the Schedule of the licence, shall be marked on each key Lock or its package provided always that the product thus marked conforms to all the requirement of the specification. In addition, the licence no. CM/L- and details of BIS website shall be marked at an appropriate place on product or package as follows: “For details of BIS certification please visit www.bis.gov.in”

4. REJECTION - All the production which conforms to the Indian Standard and covered under scope of the licence shall be marked with Standard Mark. 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 (Recommended levels of Control- For guidance only)

(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	Construction	5, except Cl. 5.5	IS 17566	R	Manufacturer shall exercise adequate levels of control to ensure that entire production should conform to the Standard. Appropriate records of testing indicating conformity shall be maintained		
5	Construction	5.5	IS 17566	S	1	Once in a year for each grade of Key Lock manufactured in one year	
8.1	Endurance Test	8.1	IS 17566	S	1	Once in six months	These tests shall also be carried out whenever any change in the design of the lock is made. These tests shall be carried out in such a manner that each grade of lock, for which the manufacturer has obtained licence, is tested at least once in six months
8.2	Bolt Forcing Test	8.2	IS 17566	S	1		
8.3	Salt Spray Corrosion Test	8.3	IS 17566	S	1		
8.4	Key Strength Test	8.4	IS 17566	S	1		