PRODUCT MANUAL FOR
MORTICE LOCKS WITH LEVER MECHANISM
(VERTICAL TYPE, SLIDING DOOR LOCKS AND DEAD LOCKS)
ACCORDING TO IS 16015:2013

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 16015:2013
	Title	:	MORTICE LOCKS WITH LEVER MECHANISM (VERTICAL TYPE, SLIDING DOOR LOCKS AND DEAD LOCKS)
	No. of Amendments	:	Nil
2.	**Sampling Guidelines:**		
a)	**Raw material**	:	Not applicable
b)	**Grouping guidelines**	:	Please refer ANNEX – A
c)	**Sample Size**	:	5 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**	**:**	1. Key identification requirement, 2. Performance tests
6.	**Scope of the Licence**	**:**	Please refer ANNEX – D

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ANNEX - A

Grouping Guidelines

1. The following parameters have been taken into consideration for developing the grouping guidelines for certification of Mortice Locks with Lever Mechanism (Vertical Type, Sliding Door Locks and Dead Locks) as per IS 16015:2013:

    - Design of Lock:-
        i) Vertical type Mortice Lock
        ii) Mortice Sliding door Lock
        iii) Mortice Dead Lock

    - Corrosion Resistance grade:-
        i) Grade A
        ii) Grade B
        iii) Grade C

2. The Locks are further classified into following groups based on grades:-

Group I	Grade 1, Grade 2, Grade 3, Grade 4, Grade 5
Group II	Grade 6, Grade 7

3. For considering GOL/CSoL, Mortice Lock of any grade from each group, with any size, for each design shall be tested to cover the entire varieties of Locks in that group for the particular design tested.

4. However if sample of Corrosion Resistance Grade C is tested, Grades A & B may also be covered. Similarly if sample of Corrosion Resistance Grade B is tested, Grade A may also be covered.

5. The Firm shall declare the type of Mortice locks intended to be covered in the Licence. The Scope of the Licence may be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.

6. During the operation of the licence, 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.	Tests used in with Clause Reference	Test Equipment
1	Tests for Latch Bolt as per Cl. 5.3.4	a. Vernier Caliper b. Torque Wrench
3	Performance test as per Cl. 5.3	a. Torque wrench b. Force gauges c. Load test set up for dead bolt
4	Endurance test as per Cl. 5.4	a. Durability of latch/deadbolt testing arrangement with counters for minimum 50000 operations and b. Hydraulic Test Bench
6	Corrosion resistance test as per Cl. 5.5	a. Salt spray test arrangement b. Timer

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 16015.

4. CONTROL UNIT – All the Locks of same design, size and grade manufactured in a day 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.

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**
5.2	Key Identification Requirement	5.2.1, 5.2.2, 5.2.3 & 5.2.4	IS 16015:2013	R	One	Each control unit	
5.3	Performance Test	5.3.1, 5.3.2, 5.3.3, 5.3.4	IS 16015:2013	R	Two	Each control unit	
5.4	Endurance Test	5.4.1 & 5.4.2	IS 16015:2013	R	One	Once in a year for each design and grade(Grade 1 to Grade 7)	
5.5	Corrosion Resistance	5.5	IS 16015:2013	S	One	Once in six months for each grade (A, B, C)	

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 16015:2013 with the following scope:	
Name of the Product	Mortice Locks with Lever Mechanism
Design (as applicable)	i) Vertical type Mortice Lock ii) Mortice Sliding door Lock iii) Mortice Dead Lock
Grade	Grade 1/ Grade 2/ Grade 3/ Grade 4/ Grade5/ Grade 6/ Grade 7
Corrosion resistance	Grade A/Grade B/Grade C