



**उत्पाद मैनुअल
आई एस 9131:2026 के अनुसार रिम ताले और लैचेस (मेकनिकली संचालित)
के लिए**

दस्तावेज संख्या – पीएम/आईएस 9131/2/अगस्त 2026

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
RIM LOCKS AND LATCHES (MECHANICALLY OPERATED)
ACCORDING to IS 9131:2026**

Document No.-PM/IS 9131/2/ August 2026

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 9131: 2026
	Title	:	Rim Locks And Latches (Mechanically Operated)
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	-
b)	Grouping guidelines	:	Please refer ANNEX –A
c)	Sample Size	:	10 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	:	All tests except : Durability (Cl. 8.6), Corrosion resistance and Operation at extremes of temperature (Cl. 8.9)
6.	Scope of the Licence:	:	Please refer ANNEX –D

ANNEX A**Grouping Guidelines**

1. Rim Locks and Latches covered under IS 9131: 2026 may be classified into different varieties based on following parameters:

a) Type of door construction for which intended:

- i) Left hand side inside opening single leaf hinged door
- ii) Right hand side inside opening single leaf hinged door
- iii) Left hand side outside opening single leaf hinged door
- iv) Right hand side outside opening single leaf hinged door
- v) Sliding doors
- vi) Inside opening hinged double leaf doors
- vii) Outside opening hinged double leaf doors

b) Based on type of Bolts: Rim latch/Night latch/Vertical bolt lock/Dead bolt lock/Claw bolt lock/Multibolt lock

Above are indicative, Manufacturers may make rim locks and latches of any shape and design as per Cl. 6.1 of IS 9131: 2026

c) Sizes:

As per mutual agreement between the manufacturer and the purchaser Cl. 6.1 of IS 9131

d) Type of Key Operation and Locking: Dead Locking/ Manual Locking

e) Classification code:

Digit 1	Digit 2	Digit 3	Digit 4	Digit 5	Digit 6	Digit 7	Digit 8

2. Considering the above, the following grouping guidelines for Grant of Licence/Change in Scope of Licence shall be followed:

- a) Rim Locks and Latches of each door type, each bolt type, and each type of key operation, as above, shall be tested separately.
- b) Rim locks and Latches of any size may be tested to cover all sizes intended to be covered.
- c) Following are the guidelines for coverage of the Grades specified under each Digits within the Eight-Digit Classification Code:
 - Digit 1 (Category of Use): Each grade to be tested.
 - Digit 2 (Durability) : Highest Grades of Durability for each grade of Digit 1 (category of use), shall be tested to cover all lower Grades of Durability including the tested grade, for that grade of Digit 1. Locks with deadbolt only shall be tested separately.

- Digit 3 (Test door mass) : Each grade of test door mass for each grade of Digit 1 to be tested
 - Digit 4 (Fire resistance): Highest Grade of Fire Resistance for each grade of Digit 1 (category of use), shall be tested to cover all lower Grades of Fire Resistance including the tested grade, for that grade of Digit 1.
 - Digit 5 (Safety): *Not applicable*
 - Digit 6 (Corrosion Resistance) : Highest Grades of Corrosion Resistance for each grade of Digit 1 (category of use), shall be tested to cover all lower Grades of Corrosion Resistance including the tested grade, for that grade of Digit 1
 - Digit 7 (Strength and Security) : Highest Grades of Strength and Security for each grade of Digit 1 (category of use), shall be tested to cover all lower Grades of Strength and Security including the tested grade, for that grade of Digit 1.
 - Digit 8 (Key combination related safety) : Highest Grades of Key combination related safety for each grade of Digit 1 (category of use), shall be tested to cover all lower Grades of Key combination related safety including the tested grade, for that grade of Digit 1.
3. Manufacturer shall declare varieties of the locks and latches along with the technical parameters as per Para 1 above, which are intended to be covered under the scope of licence. Scope of licence may be restricted based on manufacturing and testing capabilities.
4. 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***Indicative list of major test equipment required to test as per the Indian Standard*

Sl. No.	Tests Used In With Clause Reference	Test Equipment/Chemical
1	Return Force of Latch Bolt. Cl 8.1	Suitable Force guage, vernier calipers
2	Resistance to side load on latch bolt, Cl 8.2	Fixture for mounting the lock or latch, Suitable force guage for applying the force, vernier calipers
3	Torque to operate Dead bolt, Cl 8.4	Fixture for mounting the lock or latch, Torque tester
4	Torque resistance of Rim Lock with Lockable Handle/Knob, Cl 8.5	Fixture for mounting the lock or latch to a handle/knob, Torque wrench
5	Durability of latch action, Cl.8.6.1	Test set up for Durability test (Test door of 100kg door mass and frame with a gap of 3mm+-1mm) with provision of automatic door closing and opening equipped with suitable force guage, provision to rotate key/knob with torque measurement along with automatic cycle counter with timer. <i>The equipment shall be capable of operating number of 10 cycles per minute maximum</i>
6	Durability of Dead Bolt Mechanism, Cl. 8.6.2 and 8.6.3	Test set up for Durability test with provision of key rotation, inserting and with drawing the key from the lock along with automatic cycle counter with timer.
7	Fire resistance, Cl. 8.8	Test set up as per IS 3614 or as appropriate otherwise
7	Corrosion resistance ,Cl.8.9.1	Salt spray test set up, Torque wrench.
8	Operation at extremes of temperature, Cl.8.9.2	Humidity chamber, oven and Deep freezer, Torque wrench
9	Resistance to side load on Dead Bolt, Cl. 8.10.1	Force guage, Timer/Stop watch, vernier calipers.
10	Dead bolt Projection, Cl 8.10.2	Test apparatus as shown in Fig7, Vernier Calipers.
11	Requirement for end load on Dead Bolt, Cl 8.10.3	Test apparatus as shown in Fig7, Force guage, Stop watch
12	Resistance to end load, Cl. 8.10.4	Force guage, Vernier calipers.
13	Resistance to side load on locking plate, Cl. 8.10.5	Fixture for mounting the lock plate,force guage,Stop watch.

14	Manual Locking with intermediate locking position, Cl. 8.11.2 and 8.11.3	Force guage.
15	Torque to withdraw the latch bolt with key, Cl. 8.11.4	Suitable torque guage and adapter.
16	Effective differs, Non interchangeability, Non inter passing of key with just one interval differ, coding protection, Differing step heights on key	As per manufacturers coding system and documentation.

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 during operation of BIS licence, manufacturers will implement a Quality Assurance Plan (QAP) 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 (QAP) defining the control unit (i.e. lot/batch etc.), the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and declare the arrangement for testing i.e. whether in-house or subcontracting/sharing for each applicable test and submit the same to BIS Branch Office for information. The manufacturer shall comply with the QAP and maintain test records in accordance with **para 2.1**.

1.3 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT:

1.3.1 Control Unit: For the guidance of manufacturers in preparing the Quality Assurance Plan, the recommended definition of control unit is the Quantity of Rim Locks and Latches used for same type of door construction, of same type of bolt, size, shape and design, type of key operation and locking and bearing same classification code manufactured under similar conditions from same consignment of raw material in a day.

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

1.3.3 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.

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

2. ENSURING COMPLIANCE THROUGH TESTING- Manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard for which they may have in-house test facilities. However, there is no obligation to maintain in-house laboratory. Licensee may use alternative arrangements for tests of the production as per the declared QAP. Various alternatives are available for operation of BIS certification as given below and the relevant guidelines for availing such relaxations by the manufacturers, as amended from time to time, are to be referred:

- i) Shared testing resources like common facility,
- ii) Cluster based testing facility,
- iii) Sub-contracting to outside laboratories which may either be:
 - a) BIS recognised/empanelled laboratories, or
 - b) Any accredited laboratory as per ISO/IEC 17025

2.1 TEST RECORDS- The manufacturers shall maintain test records for the tests carried out (either in-house or at a sub-contracted or at shared test facility) to establish conformity of the product to the Standard for operation of licence. For the tests being subcontracted or conducted at a shared test facility, test results issued by the laboratories or test facilities, shall be made available for inspection by BIS.

3. PACKING, LABELLING AND MARKING – As per the requirement of 9131:2026. The Standard Mark, as given in the Schedule of the licence, shall be marked on each product, 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 - The production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the 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)		
Test Details				Levels of Control		
Cl.	Requirement	Test Method		No. of Sample	Frequency	Remarks
		Clause	Reference			
6.2	Materials	6.2	IS 9131	Materials specified for the components shall be declared by the manufacturer and records shall be maintained for conformity during routine production		
6.1	Sizes	6.1	IS 9131	One	Each Control Unit	
6.2	Workmanship and Finish	9.1, 9.2, 9.3	IS 9131	Manufacturer shall exercise adequate levels of control so that entire production conforms to the Standard. Record shall be maintained		
8.1	Return force of latch Bolt	8.1	IS 9131	One	Each Control unit	-----
8.2	Resistance to side load on latch bolt	8.2	IS 9131	One	Each Control unit	-----
8.3	Latch bolt projection	8.3	IS 9131	One	Each Control unit	
8.4	Torque to operate dead bolt	8.4	IS 9131	One	Each Control unit	
8.5	Torque resistance of Rim Lock with lockable handle/knob	8.5	IS 9131	One	Each Control unit	
8.6.1	Durability of latch action	8.6, Table 3	IS 9131	One	Every 12 month	

8.6.2, 8.6.3	Durability of dead bolt mechanism	8.6.2, 8.6.3	IS 9131	One	Every 12 month	
8.6.4	Durability of locking snib mechanism	8.6.4	IS 9131	One	Every 12 month	
8.8	Fire resistance test	8.8	IS 9131	One	Every 12 month	
8.9.1	Corrosion resistance	8.9.1, Table 6	IS 9131	One	Every 12 month	
8.9.2	Operation at extremes of temperature	8.9.2	IS 9131	One	Every 12 month	
8.10.1	Resistance to slide load on deadbolt	8.10.1	IS 9131	One	Every 12 month	
8.10.2	Deadbolt projection	8.10.2	IS 9131	One	Each Control Unit	
8.10.3	Requirement for end load on deadbolt	8.10.3	IS 9131	One	Every 12 month	
8.10.4	Resistance to end load	8.10.4	IS 9131	One	Every 12 month	
8.10.5	Resistance to side load on locking plate	8.10.5	IS 9131	One	Every 12 month	
8.11.2	Manual locking	8.11.2	IS 9131	One	Each Control Unit	

8.11.3	Manual locking with intermediate locking position	8.11.3	IS 9131	One	Each Control Unit	
8.11.4	Torque to withdraw the latch bolt with key	8.11.4	IS 9131	One	Each Control Unit	
8.12	Key identification requirements	8.12.1, 8.12.2, 8.12.3, 8.12.4, 8.12.5, 8.12.6	IS 9131	One	Each Control Unit	

ANNEX – D

Scope of the Licence

Licence is granted to use Standard Mark as per IS 9131:2026 with thefollowing scope:								
Name of the product	Rim Locks and Latches (Mechanically Operated)							
Type of door construction for which intended								
Type of Bolts								
Size								
Type of Key Operation and Locking (Dead Locking/ Manual Locking)								
Classification code								
	Digit 1	Digit 2	Digit 3	Digit 4	Digit 5	Digit 6	Digit 7	Digit 8