PRODUCT MANUAL FOR
DOOR HANDLES FOR MORTICE LOCKS (VERTICAL TYPE)
ACCORDING TO IS 4992 : 1975

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 4992 : 1975
	Title	:	DOOR HANDLES FOR MORTICE LOCKS (VERTICAL TYPE)
	No. of Amendments	:	NIL
2.	**Sampling Guidelines:**		
a)	**Raw material**	:	As per clause 3.1 and Table 1 of IS 4992 : 1975
b)	**Grouping guidelines**	:	Please refer ANNEX – A
c)	**Sample Size**	:	2 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
6.	**Scope of the Licence :**		
	"Licence is granted to use Standard Mark as per IS 4992 : 1975 with the following scope:		
	Name of the product		DOOR HANDLES FOR MORTICE LOCKS (VERTICAL TYPE)
	Type		Handle Type / Knob Type
	Material used for various components		Door handle housing -
			Handle/Knob -
			Sprocket -
			Connecting rod -
			Plate spring – Spring steel
			Retaining ring – Spring steel

ANNEX A

Grouping Guidelines

1. Door handles for mortice locks (Vertical type) covered in IS 4992 : 1975 are categorized into following:

a) Based on Type – Handle type and Knob type

b) Based on the material used for various part:

(i)	Door handle housing	–	Cast brass
			Brass sheet
			Mild steel sheet
			Aluminium alloy pressure die-casting
			Aluminium alloy sheet
			Aluminium alloy extruded section
			Zinc base alloy pressure die casting
(ii)	Handle/Knob	–	Cast brass
			Aluminium alloy pressure die-casting
			Aluminium alloy extruded section
			Zinc base alloy pressure die casting
(iii)	Sprocket	–	Brass sheet
			Mild steel sheet
(iv)	Connecting rod	–	Mild steel bar
			Aluminium extruded rod
(v)	Plate Spring	–	Spring Steel
(vi)	Retaining ring	–	Spring Steel

c) Typical details of size and shape are as per Fig 1 of IS 4992 : 1975. However, door handles may be manufactured in other shapes and sizes as agreed to between manufacturer and the purchaser.

2. Considering the above, following grouping guidelines shall be followed for GoL/CSoL:

'Each type of door handles of any size and shape from each material shall be tested to cover that type of door handle in the scope of the licence.'

3. The Scope of Licence may be restricted based on the Manufacturing and Testing capabilities of the Manufacturer.

4. During the operation of the Licence, BO shall ensure that all the types and sizes 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

S. No.	Tests used in with Clause Reference	Test Equipment
1	Dimensions and tolerances (Clause 5)	- Vernier Caliper - Micrometer (Ball ended)
2	Performance requirements (Clause 6)	- Handle operation testing arrangement - Handle load testing arrangement along with dead weights
3	Finish (Clause 8)	- Coat meter or test equipment as per IS 1868

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 equipment.

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 4992 : 1975.

4. CONTROL UNIT – All door handles of same type and size manufactured from same material under similar condition 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.

5.1 All the production which conforms to the Indian Standard 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 Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
3	Material	3.1 Table 1	IS 4992	S	One	Each consignment	#
4	Manufacture and construction	4.1, 4.2	IS 4992	-	One	Each control unit	-
5	Dimension and tolerance	5.1, 5.1.1	IS 4992	R	Ten	Each Control unit	-
6	Performance requirement	6.1, 6.2	IS 4992	R	One from every 100 handles in each control unit		-
7	Workmanship	7.1	IS 4992	-	Each handle	-	-
8	Finish (Including coating thickness, as applicable)	8.1	IS 4992	R	One	Each lot of components processed at a time	-
	Quality of anodized finish other than coating thickness	8.1	IS 4992 IS 1868	S	One	Each lot of components processed at a time	#

No further testing is required if accompanied with the Test Certificate or ISI marked.

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.