



**PRODUCT MANUAL FOR  
MONOCULAR DISSECTING MICROSCOPE  
ACCORDING TO IS 4328:1967**

*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.	<b>Product</b>	:	IS 4328:1967
	<b>Title</b>	:	Monocular Dissecting Microscope
	<b>No. of Amendments</b>	:	2
2.	<b>Sampling Guidelines:</b>		
a)	<b>Raw material</b>	:	As per clause 3.1 of IS 4328:1967
b)	<b>Grouping guidelines</b>	:	Not Applicable
c)	<b>Sample Size</b>	:	One Microscope
3.	<b>List of Test Equipment</b>	:	Please refer ANNEX – A
4.	<b>Scheme of Inspection and Testing</b>	:	Please refer ANNEX – B
5.	<b>Possible tests in a day :</b>		
	All Tests		
6.	<b>Scope of the Licence:</b>		
	“Licence is granted to use Standard Mark as per IS 4328: 1967 with the following scope:		
	Name of the product	Monocular Dissecting Microscope	

**ANNEX A****List of Test Equipment***Major test equipment required to test as per the Indian Standard*

<b>Sl. No.</b>	<b>Tests used in with Clause Reference</b>	<b>Test Equipment</b>
1	General Requirements (Clause 3)	Vernier caliper (Digital) Micrometer (Least Count 0.001 mm) Gauges (GO/ NO-GO) Bevel Protractor Steel scale Apertometer Standard focometer
2	Functional Requirements (Clause 4)	Magnification Stage Micrometer or graticule plate having two parallel lines of known separation Micrometer eyepiece or travelling microscope
3	Tests (Clause 5)	Testing facility as per any of the methods given in Annex C of IS 2754

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

**ANNEX B**

**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 requirement of IS 4328: 1967.

**4. 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.

**4.1** All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

**5. 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				
3	General Requirements (except Materials and Optical Components)	3	IS 4328	R	Each Microscope		--
	Materials and Optical Components	3	IS 4328	S	One	Each Consignment	No further testing is required if received with test certificate or ISI marked
4	Functional Requirements	4	IS 4328	R	Each Microscope		In case of failure of microscope in any of the requirements, it shall be rectified till it meets the requirement otherwise the microscope shall be rejected.
5	Tests	5.1		R	Each Microscope		
7	Packing	7	IS 4328	R	Each Microscope		

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.