



**PRODUCT MANUAL FOR
BINOCULAR EYEPIECES FOR MICROSCOPE
ACCORDING TO IS 8275: 1976**

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 8275 : 1976
	Title	:	Binocular Eyepieces for Microscope
	No. of Amendments	:	1
2.	Sampling Guidelines:		
a)	Raw material	:	As per Clause 3 of IS 8275 : 1976
b)	Grouping guidelines	:	Not Applicable
c)	Sample Size	:	One no.
3.	List of Test Equipment	:	Please refer ANNEX – A
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – B
5.	Possible tests in a day :		
	All Tests		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 8275 : 1976 with the following scope:		
	Name of the product	Binocular Eyepieces for Microscope	

ANNEX A**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	Mechanical Tests (Clause 5)	(i) Bevel Protractor (ii) Gauges (GO/ NO-GO) (iii) Micrometer (iv) Steel Scale (v) Travelling Microscope (vi) Vernier Caliper
2	Paired Eyepieces (Clause 5.2.2)	(i) Micrometer Eyepiece or Travelling Microscope (ii) Stage Micrometer or Graticule slide having two parallel lines of known separation (iii) Standard Focometer or alternate methods given in Appendix C of IS 988
3	Field of View Number (Field Number) (Clause 5.2.3)	(i) Diffused Light (ii) Travelling Microscope
4	Parallelism of Optical Axis (Clause 5.2.4)	(i) Graticule with a Cross (Object Graticule) (ii) Micrometer Eyepiece with Scale

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 8275: 1976.

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 8275	R	Each Microscope		--
	Materials and Optical Components	3	IS 8275	S	One	Each Consignment	No further testing is required if received with test certificate or ISI marked
4	Functional Requirements	4	IS 8275	R	Each Microscope		--
5.1	Mechanical Tests	5.1.1 to 5.1.2	IS 8275	R			
5.2	Optical Tests						
5.2.1	Prisms	5.2.1	IS 8275 IS 988	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
5.2.2	Paired Eyepieces	Appendix C 4.2.5	IS 988 IS 2754	R			
5.2.3	Field of View Number (Field Number)	6.2.4	IS 5204	R			
5.2.4	Parallelism of Optical Axis	Appendix A	IS 8275	R			
7	Packing	7	IS 8275	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.