



**PRODUCT MANUAL
FOR
LABORATORY GLASSWARE - NARROW-NECKED
BOILING FLASKS
ACCORDING TO IS 1381 (Part 1): 2003**

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 1381 (Part 1): 2003
	Title	:	Laboratory Glassware - Narrow-Necked Boiling Flasks
	No. of Amendments	:	01
2.	Sampling Guidelines:		
a)	Raw material	:	As per Cl 3.3 and Cl 4.3 of IS
b)	Grouping guidelines	:	Please refer ANNEX – A
c)	Sample Size	:	1 no.
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 1381 (Part 1): 2003 with the following scope:		
	Name of the product	Laboratory glassware - narrow-necked boiling flasks	
	Type of Flask	Conical flask / Flat-bottom flask /Round-bottom flask	
	Nominal Capacity	25 ml to 10000 ml	

ANNEX – A**Grouping Guidelines**

1. The parameters given below shall be considered for grouping of Laboratory glassware - narrow-necked boiling flasks according to IS 1381 (Part 1): 2003 for GoL/CSoL:

a) Nominal Capacity

Group	Nominal Capacity
I	25 ml to 500 ml
II	1000 ml to 10000 ml

b) Type of Flask: Conical flask / Flat-bottom and round-bottom flask

2. Flask (preferably the highest nominal capacity) of same Type (Conical flask / Flat-bottom and round-bottom flask) from each group shall be tested to cover the entire nominal capacities from the particular group.

3. The Firm shall declare the varieties of Laboratory glassware - narrow-necked boiling flasks intended to be covered in the Licence. 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 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	Nominal Capacity,3.2 & 4.2	Measuring jar
2	Dimension, 3.5 & 4.5	Vernier Calliper Steel Scale Micrometre

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 – Labelling and marking shall be done as per the provision of the **IS 1381 (Part 1): 2003.** In addition, the following details shall be mentioned on each pack legibly and indelibly:

a) BIS Licence No. CM/L

b) BIS website details i.e. –“For details of BIS certification please visit www.bis.gov.in.

4. CONTROL UNIT – For the purpose of this Scheme, the flasks of same shape (conical or round bottom or flat bottom) and same nominal capacity manufactured in one day from the same consignment of raw material 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	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
3.3 & 4.3	Material	3.3 & 4.3	IS 1381 (Pt 1) 2003	S	One	Each consignment	No testing is required in case, Test Certificate is received with each consignment
3.2 & 4.2	Nominal Capacity	3.2 & 4.2	IS 1381 (Pt 1) 2003	R	Five Flasks	Each Control Unit	
3.4 & 4.4	Construction and Finish	3.4 & 4.4	IS 1381 (Pt 1) 2003	R	Each Flask	-	
3.5 & 4.5	Dimension	3.5 & 4.5	IS 1381 (Pt 1) 2003	R	Five Flasks	Each Control Unit	

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. 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.