



**PRODUCT MANUAL FOR
SPHYGMOMANOMETER, ANEROID TYPE
ACCORDING TO IS 7652:1988**

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 7652:1988
	Title	:	SPHYGMOMANOMETER - ANEROID TYPE
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	As per clause 3 of IS 7652
b)	Grouping guidelines	:	Not Applicable
c)	Sample Size	:	One Sphygmomanometer
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 :		
	1. Leakage test 2. Control valve 3. Leakage test of inflating bag 4. Dimensions		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 7652:1988 with the following scope:		
	Name of the product	Sphygmomanometer - Aneroid type	

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

Sr. No.	Tests Used with clause reference	Test Equipment
1.	Dimensions (Clause 4.2, 4.3, 4.4, 4.4.2)	Steel Scale, Vernier calliper
2.	Set up for testing (Clause 4.4, 4.6, 6.1, 6.2, 6.3, 6.4)	U tube mercury manometer, Air compressor
3.	Corrosion resistance test (Clause 6.5)	Hot plate/ Gas stove, Distilled water, Citric acid, Stop watch, Glass apparatus

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 requirements of IS 7652.

4. CONTROL UNIT – All instruments produced in one 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 Standards 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 Clause Reference			No. of Sample	Frequency	Remarks
3	Materials	3.1, 3.2, 3.3, 3.4, 6.5	IS 7652	S	One	Each consignment	No further testing is required, if accompanied with test certificate or ISI marked.
4.2	Cuff	4.2	IS 7652	R	Ten percent of total number of pieces from each consignment		Excluding clause 3.4
4.3	Tubing	4.3	IS 7652	R	Ten percent of total number of pieces from each consignment		----
4.4	Inflating bag - Dimensions	4.4, 4.4.1, 4.4.2	IS 7652	R	Ten percent of total number of pieces from each consignment		---
	Inflating bag – Leakage test	6.2	IS 7652	R	Each piece		---
4.5	Inflating bulb	4.5	IS 7652	--	Each piece		Excluding material requirements
4.6	Control valve	4.6	IS 7652	R	Each piece		Excluding material requirements
4.7	Fastener	4.7	IS 7652	R	Each piece		---
4.9	Pressure measuring device	4.9	IS 7652	R	Each piece		---
5.	Workmanship and finish	5.1	IS 7652	R	Each piece		---

6.1	Accuracy test	6.1, 6.1.1	IS 7652	R	One	Each Control Unit	---
6.3	Leakage test	6.3	IS 7652	R	Each piece		---
6.4	Endurance test	6.4	IS 7652	R	One	Each Control Unit	

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 B.O. Head.