



**PRODUCT MANUAL FOR
STERILIZER, PORTABLE, VERTICAL, PRESSURE TYPE
ACCORDING TO IS 8462: 1977**

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 8462: 1977
	Title	:	STERILIZER, PORTABLE, VERTICAL, PRESSURE TYPE
	No. of Amendments	:	3
2.	Sampling Guidelines:		
a)	Raw material	:	(a) Important parts - as per Cl. 2 of IS 8462: 1977 (b) Pressure gauge as per Cl. 5.5 of IS 8462: 1977
b)	Grouping guidelines	:	Sterilizer of each Design depending on the operation (Gas/ Kerosene/Charcoal/Electricity) shall be tested separately to cover that Design in the Scope of Licence.
c)	Sample Size	:	1 No.
3.	List of Test Equipment	:	Please refer ANNEX – <u>A</u>
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – <u>B</u>
5.	Possible tests in a day		All tests
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 8462: 1977 with the following scope:		
	Name of the product	Portable Pressure type Vertical Sterilizer	
	Design	Operated on Gas/ Kerosene/Charcoal/Electricity	

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	Shape and Dimensions, Cl. 4	Scale, Micrometre, Vernier caliper
2	Construction, Cl.5	Micrometre, Vernier caliper
3	Workmanship and Finish, Cl.6	Chemicals and glassware for coating thickness, Arrangement for Corrosion resistance test, File etc. for adhesion test as per IS 1068
4	Heating Elements, Cl.7	Ammeter and Pressure Gauge.
5	Tests a) Proof Pressure Test Cl 8.1 b) Performance Test. Cl 8.2	Hydraulic test pump with Pressure Gauge, Heating Arrangement (in case of non-electrical operated)

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 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 requirement of IS 8462: 1977.

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				
2	Material	2, 5.5	IS 8462	S	One	Each consignment	Please see Note 1
3	Design	3	IS 8462	R	Each unit		
4	Shapes and Dimensions	4.1, 4.2	IS 8462	R	Two	Every 10 th unit	In case of failure, 100% checking shall be done and the units not conforming shall not be marked.
5	Construction	5.1 to 5.4, 5.6 to 5.8	IS 8462	R	Each unit		
	Pressure gauge	5.5	IS 8462	R	Each Pressure gauge		For diameter, graduation and marking verification
6	Workmanship and Finish	6.1	IS 8462	R	Each unit		
	Workmanship and Finish (coating requirements)	6.2	IS 8462	S	One	Each batch of coated material	No further testing is required if accompanied with test certificate or ISI marked.
7	Heating Elements for Electrically Operated Sterilizer	7.1, 7.2	IS 8462	R	One	Every week	
8.1	Proof pressure test	8.1	IS 8462	R	Each unit		
8.2	Performance test	8.2	IS 8462	R	One	Every week	

Note- 1: Stainless steel sheets (IS 6911) used to make body and lid shall be ISI marked. For other materials, no further testing is required if accompanied with test certificate or ISI marked.

Note-2: Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note-3: 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.