



**PRODUCT MANUAL FOR  
DRUMS, LARGE OPEN TOP  
ACCORDING TO IS IS 13997: 2014**

*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 13997:2014
	<b>Title</b>	:	DRUMS, LARGE OPEN TOP
	<b>No. of Amendments</b>	:	Nil
2.	<b>Sampling Guidelines:</b>		
a)	<b>Raw material</b>	:	Cold reduced carbon steel sheet - Grade CR1, CR2 or CR 3 of IS 513 (Part 1) :2016.
b)	<b>Grouping guidelines</b>	:	Each Type of construction (Grade A/Grade B) shall be tested for GoL/CSoL.
c)	<b>Sample Size</b>	:	2 drums
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>		
	(i) Capacity - clause 4 (ii) Dimensions - clause 5 (iii) Construction - clause 7 (iv) Finish - clause 8 (v) Leakage Test - clause 9		
6.	<b>Scope of the Licence :</b>		
	“Licence is granted to use Standard Mark as per IS 13997:2014 with the following scope:		
	Name of the product	DRUMS, LARGE OPEN TOP	
	Type of Construction	GRADE A/ GRADE B	

**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	Capacity as per <i>clause 4</i>	a) Platform Balance b) Depth Gauge c) Flow meter
2	Dimensions as per <i>clause 5</i>	a) Vernier calliper b) Depth gauge c) Steel measuring tape/steel scale d) External micrometer
3	Leakage Test as per <i>clause 9</i>	a) Arrangement for pressurizing the drum b) Stopwatch c) Soap solution d) Water Tank

*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 13997:2014

**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				
6	Material	6	IS 13997	S	--	Each consignment	No further testing is required, if accompanied with the Test Certificate or ISI Marked.
4	Capacity	4	IS 13997	R	One	Every 1000 drums	
5	Dimensions	5	IS 13997	R	Two	Every 100 drums	
7	Construction	7.1 to 7.11	IS 13997	R	Each drum	---	
8	Finish	8	IS 13997	--	Each drum	---	
9	Leakage Test	9.1, 9.2	IS 13997	R	One	Every 1000 drums	

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.