



**PRODUCT MANUAL FOR
DRUMS LARGE, FIXED ENDS, GRADE 'B' DRUMS
ACCORDING TO IS 1783 (Part 2): 2014
Document No - PM/ IS 1783 (Part 2)/ 2/ September/ 2023**

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.

भारतीय मानक ब्यूरो

**उत्पाद मैनुअल
आई एस 1783 (Part 2): 2014 के अनुसार
ड्रम बड़े, निश्चित सिरे, ग्रेड 'बी' ड्रम
दस्तावेज संख्या - पीएम/आईएस 1783 (भाग 2)/2/सितंबर/2023**

भारतीय मानक ब्यूरो की स्कीम-1 (अनुरूपता मूल्यांकन) विनियम, 2018 के तहत यह उत्पाद मैनुअल प्रमाणीकरण के प्रचालन में रीति और पारिश्रिता की सुसंगतता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसी द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस प्रमाणीकरण लाइसेंस/ प्रमाणपत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज का उपयोग किया जा सकता है।

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1.	Product	:	IS 1783(Part 2): 2014	
	Title	:	DRUMS LARGE, FIXED ENDS, GRADE ‘B’ DRUMS	
	No. of Amendments	:	1	
2.	Sampling Guidelines:			
a)	Raw material	:	Cold reduced carbon steel sheet (Grade CR1,CR2 or CR 3)	IS 513 (Part 1) :2016
			Screw Closures	IS 1784
b)	Grouping guidelines	:	Please refer ANNEX – A	
c)	Sample Size	:	2 drums and 5 closures	
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		Please refer ANNEX – D	
6.	Scope of the Licence :			
	“Licence is granted to use Standard Mark as per IS 1783 (Part 2): 2014 with the following scope:			
	Name of the product		Drums Large, Fixed ends; Part 2 Grade ‘B’ Drums	
	Nominal Capacity		200 Litres	
	Type of Construction		Type 1/ Type 2	

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ANNEX – A

Grouping Guidelines

1. Drums Large, Fixed ends; Part 2 Grade ‘B’ Drums are classified on the basis of types of construction:
 - i. Type 1
 - ii. Type 2
2. For considering GoL / CSoL, both Type of Drums shall be tested.
3. For Type 2 construction, drums with sheet thickness 0.90 mm may be tested to cover drums with sheet thickness 1.00 mm also.
4. The Firm shall declare the types of construction and thickness of sheet to be used for construction of both the drums. The Scope of Licence may be restricted based on the manufacturing and testing capabilities of the Manufacturer.
5. 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 Equipments**

Major test equipment essentially required to test as per the Indian Standard

Sl. No.	Tests used in with Clause Reference	Test Equipment
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 9.1</i>	a) Arrangement for pressurizing the drum b) Pressure Gauge c) Stopwatch d) Soap solution e) Water Tank
4.	Drop Test as per <i>clause 9.2</i>	a) Concrete Floor or Steel Plate at least 40 mm thick b) Arrangement for suspending the drum
5.	Hydraulic Pressure Test as per <i>clause 9.3</i>	a) Arrangement for pressurizing the drum b) Pressure Gauge c) Stopwatch

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 specifications 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** – Each drum shall be legibly and indelibly marked either by embossing with raised markings or screen printing on the bottom as per Cl. 11 of IS 1783 (Part 2): 2014. The Standard Mark as given in the Schedule of the licence shall also be legibly and indelibly marked on the drums.

3.1 In addition to the above, the licence no. CM/L-_____ and details of BIS website shall be marked on each drums as follows: “For details of BIS certification please visit www.bis.gov.in”

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.

5.1 All the production which conforms to the Indian Standard 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	Levels of Control			
Cl.	Requirement		Test Methods		R: required (or) S: Sub-contracting permitted	No. of Sample	Frequency	Remarks
			Clause	Reference				
6	Material	Body & Ends		IS 513 (Part 1)	S	One	Each Consignment	No further testing is required, if accompanied with the Test Certificate or ISI Marked
		Screwed Closures		IS 1784				
4	Capacity		4	IS 1783 (Part 2)	R	Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
5	Dimensions		5	IS 1783 (Part 2)	R			
7	Construction		7.1 to 7.7	IS 1783 (Part 2)	R			
8	Finish		8	IS 1783 (Part 2)	R			
9.1	Leakage Test		9.1	IS 1783 (Part 2)	R	Each drum		
9.2	Drop Test		9.2	IS 1783 (Part 2)	R	One	Every 2000 drums of continuous production	
9.3	Hydraulic Pressure Test		9.3	IS 1783 (Part 2)	R	One	--do--	

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.

Annex- D

Possible tests in a day

1. Capacity (*clause 4*)
2. Dimensions (*clause 5*)
3. Construction (*clause 7*)
4. Finish (*clause 8*)
5. Leakage Test, Drop Test, Hydraulic Pressure Test (*clause 9*)