

PRODUCT MANUAL

FOR Textiles — Light Weight Jute Sacking Bags for Packing 50 kg Foodgrains — Specification ACCORDING TO IS 16186: 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.	Product	:	IS 16186 : 2014			
	Title	:	Textiles — Light Weight Jute Sacking Bags for Packing 50 kg Foodgrains — Specification			
	No. of Amendments	:	02			
2.	Sampling Guidelines:					
a)	Raw material	:	No specific requirement			
b)	Grouping guidelines	:	NA (Sample of each type to be tested to cover the same in the scope of licence)			
c)	Sample Size	•	30 jute bags			
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 :	ible tests in a day: All tests except Average Breaking load of Sacking and Average Breaking Load of Seam				
6.	Scope of the Licence :					
	Licence is granted to use Standard Mark as per IS 16186: 2014 with the following scope:					
	Name of the product	product Textiles — Light Weight Jute Sacking Bags for Packing 50 kg Foodgrains — Specification				
	Туре	Type A and/or B				

ANNEX-A

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LIST OF TEST EQUIPMENTS Major test equipment required to test as per the Indian Standard

SL. NO.	Requirement with Clause reference	Test Equipment				
1.	Dimensions, Cl 4.1 and 5.1	Steel Tape, Porter Gauge, Table				
2.	Ends and Picks, Cl 4.1 and 5.1	Method A of IS 1963:				
		Traversing Thread counter equipped with low power microscope Or Ordinary counting glass with aperture satisfying 5.2 of IS 1963				
		OR				
		Method B of IS 1963				
		Clamps of Type A, B or C as per 6.1 of IS 1963 and forceps				
3.	Mass, Cl 4.1 and 5.1	Table, Steel Scale, Weighing balance accurate to 0.005 g, Drying oven				
4.	Average breaking strength of	Constant-rate-of-extension (CRE) Tensile testingmachine				
	sacking and Average seam	capable of constant rates of extension of 20 mm/min and 100				
	strength, Cl 4.1 and 5.1	mm/min, with an accuracy of ± 10 %, equipment for cutting samples				
5.	Moisture regain, Cl 4.1 and 5.1	Moisture meter				
6.	Oil content on dry de-oiled material	Soxhlet Apparatus, Drying Oven — capable of maintaining a temperature of 105 ± 3°C, Weighing Balance — capable of weighing to an accuracy of 1 mg with suitable reagents and laboratory glassware/equipment				
7.	Conditioning (Various clauses)	Air Conditioner or Conditioning Chamber to condition samples at 27±2°C and 65±2%, Hygrometer, Thermometer				

The list above is indicative and may not be taken as exhaustive

ANNEX - B

SCHEME OF INSPECTION AND TESTING

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- 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. PACKING AND MARKING** The Standard Mark as given in the Schedule of the license shallbeshall be stenciled with indelible ink on each bale containing jute bags; provided that bags contained in the bales to which this mark is thus applied conforms to every requirement of the specification.
 - 1.1 Marking and packing shall be done as per the provisions of the Indian Standard. In addition In addition, the following details shall be mentioned on each bale:
 a) BIS Licence No. CM/L _______.
 b) BIS website details i.e—"For details of BIS certification please visit www.bis.gov.in"
- **2. CONTROL UNIT** For the purpose of this scheme, all the bags manufactured in a day or part thereof shall constitute a control unit.
- 3. **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.
- **3.1** All the production which conforms to the Indian Standard and covered by the licence should be marked with Standard Mark.
- **4. 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 LEVELS OF CONTROL (Scheme of Inspection and Testing)

TEST DETAILS				Test equipment requirement R: required (or)S: Sub-	LEVELSOFCONTROL			Remarks
Clause	Requirements	TestMethod		contracting permitted	No.of Samples	Frequency	LotSize	
		Clause Reference	Method of Test	-				
4.1	Construction	4.1 I	S 16186:2014	R	One	Hourly	Each Control Unit	If the sample fails, two samples shall be tested. In case of any failure, the production shall be declared unfit for marking with BIS Certification Mark.
4.2	Seam.	4.2 I	S 16186:2014	R	One	Hourly	Each Control Unit	
4.3	Safety stitch.	4.3	-do-	R	-do-	-do-	-do-	
4.4	Hemming at mouth.	4.4	-do-	R	-do-	-do-	-do-	
4.5	Freedom from defects	Annex A		R	-do-	-do-	-do-	
5.1& Table1	Specific Requirements:			R				
	i) Dimensions	8.3.2 I	S9113		-do-	-do-	-do-	
	ii)Ends & Picks/ dm	8.4	IS 1963	R	-do-	-do-	-do-	
	iii)	8.5.2	IS 1964	R	-do-	-do-	-do-	
	iv) Average breaking strength of sacking (Wrap & weftway)	8.6.2	IS 1969	R	5bagsMin	Each control unit at equal interval	-do-	

	v) Average seam breaking strength.	8.7 IS 9030	R	5bags	-do-	-do-	
	vi) Moisture Regain.	8.2 IS 9113	R	one	hourly	-do-	
	vii) Oil Content.	8.8 IS 2969	R	2bags	-do-	-do-	In case of any failure, the production shall be declared unfit for marking with BIS Certification Mark.
5.2& Table2	Total Number of bags per Bale	8.9 IS9113	R		-do-	Each bale	
5.2& Table2	Contract mass of a bale.		R		-do-	Each bale	
5.2& Table2	Corrected net mass of a bale.	8.1 -do-	R		-do-	Each bale	
5.2&	Number of Bags per bundle.	Visual	R		-do-	Each bundle	
Table2	Number of joined bags per bundle of 25 bags.	Visual	R		-do-	Each bundle	

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 empaneled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer maydefine the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval to BO head.