



PM/ IS 9020/ 1/ March 2019

**PRODUCT MANUAL FOR
POWER THRESHERS – SAFETY REQUIREMENTS (FIRST REVISION)
ACCORDING TO IS 9020:2002**

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 9020:2002
	Title	:	Power Threshers – Safety Requirements
	No. of Amendments	:	0
2.	Sampling Guidelines:		
a)	Raw material	:	As per provisions of Clause 4 of IS 9020. No testing is required if the components are ISI marked.
b)	Grouping guidelines	:	Each Type and each Power rating to be tested in the factory.
c)	Sample Size	:	No sample to be drawn for independent testing. Varieties can be covered in the licence on the basis of factory testing only. One sample of each Type and each Power rating to be tested in the factory.
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 :		
	All tests		
6.	Scope of the Licence : (Use separate annexure if required)		
	"Licence is granted to use Standard Mark as per IS 9020:2002with the following scope:		
	Name of the product	Power Threshers – Safety Requirements	
	Type	Hammer Mill Type/Drummy type/Spike Tooth Type/Chaff-Cutter Type/Rasp Bar Type	
	Any other aspect required as per the Standard	Size of the prime mover for the thresher in kW. Type of feeding system	

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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	Range, L.C.
1	5.1, 5.2	Prime mover of required rating	
2	6.2	Vernier Calliper	5 mm, 0.1 mm
3	5.7	Arrangement to check static balancing of threshing drum	
4	6.2	Screw Gauge	5 mm, 0.1 mm
5	7.1	Angle Protector Steel Scale	1800, 10 100 mm, 10 mm
6	A-2.4.1	Tachometer	
7	A-2.4.1	Slip Gauge	

The above list is indicative only and may not be as exhaustive.
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ANNEX B
Scheme of Inspection And Testing
FOR CERTIFICATION OF POWER THRESHERS – SAFETY REQUIREMENTS
(First Revision)
ACCORDING TO IS 9020:2002

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 – The standard mark(s) as given in the schedule of the licence shall be stenciled/printed on each sack and each bale of HDPE/PP Woven Sacks; as the case may be, provided always that the sacks in each bale to which this mark is thus applied conforms to every requirement of the specification.

3.1 Marking shall be done on the thresher as per the requirement of the standard. Each thresher shall also be fitted with a label/plate containing cautionary notices in the vernacular language as per the pictorial representations given in Annex B to IS 9020. In addition, BIS Licence Number CM/L- ..., and details of BIS website shall be marked on threshers as follows: "For details of BIS certification please visit www.bis.gov.in."

3.2 Each thresher shall be supplied with an operating manual in English/Hindi or any other vernacular language.

4. TOOLS: All the required tools for operation, maintenance and adjustment of various components of the thresher shall be supplied by manufacturer.

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.

7. 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. A separate record shall be maintained giving information relating to all such rejections/defective/sub-standard material of the production not conforming to the requirements of the Specification and the method of its disposal. Such material shall in no case be stored together with that conforming to the Specification. The Standard Mark (if already applied) on rejected material should be defaced.

TABLE 1

Cl.	(1) Test Details		(2) Test equipment requirement R: required (or) S: Sub- contracting permitted	(3) Recommended Levels of Control	
	Requirement	Clause	Test Methods Reference	No. of Sample	Frequency
5	General Requirements	5.1 to 5.12 except 5.7	IS 9020:2002	1	Each thresher
	Balancing of Threshing drum	5.7	-do-	1	-do-
6	Guarding of Transmission System	6.1 to 6.4	-do-	1	-do-
7	Feeding System (as applicable)	7.1	-do-	1	-do-
8	Workmanship & Finish	8.1, 8.2 & 8.3	-do- & IS 816	1	-do-

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: The control unit and levels of control as decided by the Bureau are obligatory to which the licensee shall comply with.