



PM/ IS 15542/ 1/ Mar 2019

**PRODUCT MANUAL FOR
POWER OPERATED CHAFF CUTTER – SAFETY REQUIREMENTS
According to IS 15542:2005**

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 15542:2005
a)	Title	:	POWER OPERATED CHAFF CUTTER – SAFETY REQUIREMENTS
b)	No. of amendments	:	Nil
2.	Sampling Guidelines		Sample size is not applicable here as Licence is granted on factory testing basis.
a)	Raw material	:	Raw material conformity shall be ensured by test certificate from the manufacturer/ test certificate issued by third party laboratory / in house testing and shall be as per clause 4 of IS 15542.
b)	Grouping Guidelines	:	Not needed.
c)	Sample Size	:	One complete chaff cutter is 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	:	Complete testing shall be done in the factory on the chaff cutter which is possible within a day. Factory test report format attached. Please refer Annex - C
6.	Scope of the Licence :		
	Licence is granted to use Standard Mark as per IS 15542:2005 with the following scope:		
	Name of the product	Power operated chaff cutter	
	Speed of cutter	Speed in rpm (rotations per minute)	
	Feed mechanism	Feeding chute type / conveyer type	

ANNEXURE A
TO PRODUCT MANUAL FOR
POWER OPERATED CHAFF CUTTER – SAFETY REQUIREMENTS
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LIST OF TEST EQUIPMENTS

Major test equipment essentially required to test as per requirements of Indian Standard.

Sl. No.	Test Equipment/Chemicals and Identification Numbers (Where applicable)	Tests Used in with Clause Reference
1.	Divider gauge	6.3 (To check all blades are in a plane)
2.	Tachometer	6.5 (to check rpm when running cutter in idle condition)
3.	Angle Protector	7.3 (Dimensions)
4.	Vernier Caliper	7.3 (Dimensions)
5.	Micrometer	7.3 (Dimensions of guard for cover, blower, transmission guard etc),
6.	Slip Gauges	7.3 (Dimensions)
7.	Measuring tape	7.3 (Dimensions of cover)

Note: The above is an indicative list for the purpose of guidance only

Annex – B
SCHEME OF INSPECTION AND TESTING
FOR POWER OPERATED CHAFF CUTTER – SAFETY REQUIREMENTS
ACCORDING TO IS 15542:2005

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 labelling and marking requirements as per the Indian Standard shall be complied with by the manufacturer.

3.1 The additional labelling and marking requirements in addition to the requirements of the Indian Standard, if any, shall be indicated by the Bureau to which the manufacturer shall comply with.

4. CONTROL UNIT – Each chaff cutter is considered as a control unit.

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.

6. 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 Clause Reference			No. of Sample	Frequency	Remarks
4	Material	-	-	S	One	Each Consignment of items received	If tested in house. Alternatively, conformity certificate issued by the supplier shall be available for each consignment.
5	Hardness	-	-	S	One	Each Consignment of items received	If tested in house. Alternatively, if conformity certificate issued by the supplier is available for each consignment, no further testing is necessary.
					One	From consignments received in three months	If components are tested from any BIS recognised laboratory.
6	General Requirements	-	-	R	Each Chaff Cutter	-	
7.2	Feed Chute requirements	-	-	R	Each Chaff Cutter	-	
7.2.1	Flywheel locking pin	-	-	R	Each Chaff Cutter	-	
7.2.2	Front safety guard	-	-	R	Each Chaff Cutter	-	
7.2.3	Feeding chute cover	-	-	R	Each Chaff Cutter	-	
7.2.4	Warning Roller	-	-	R	Each Chaff Cutter	-	
7.2.5	Blade cover	-	-	R	Each Chaff Cutter	-	
7.2.6	Height of Feeding Chute	-	-	R	Each Chaff Cutter	-	
7.3	Conveyor Feed	-	-	R	Each Chaff Cutter	-	

	system						
7.3	Material of conveyor	Annex A cl. A 2.1 to 2.10	-	S	One	Each Consignment of items received	If tested in house. Alternatively, conformity certificate issued by the supplier shall be available for each consignment.
					One	From consignments received in three months	If components are tested from any BIS recognised laboratory.
8	Guarding of Transmission System	-	-	R	Each Chaff Cutter	-	
9	Cautionary Notices	-	-	R	Each Chaff Cutter	-	
10	Workmanship & Finish	-	-	R	Each Chaff Cutter	-	
11	Marking	-	-	R	Each Chaff Cutter	-	

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. R: required (or) S: Sub-contracting permitted

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.