

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT (INITIAL)

संख्या/No:Machine-655/1717
माह/Month: September, 2024

THIS REPORT IS VALID UPTO 31.08.2031



LIMAT & CO., SBI PRAKASH 3CC CHAFF CUTTER
(Electric Motor Operated)



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि एवं किसान कल्याण विभाग

Department of Agriculture and Farmers Welfare

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Southern Region Farm Machinery Training and Testing Institute

ट्रैक्टर नगर, गार्लदिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Machine- 655/1717	LIMAT & CO., SBI PRAKASH 3CC CHAFF CUTTER (Electric Motor Operated)	COMMERCIAL (ICT)
	THIS REPORT IS VALID UPTO 31.08.2031	



Manufacturer : M/s. Limat & Co., 622/1, Trichy Road,
Singanallur, Coimbatore, Tamilnadu-
641005, India.

Applicant : The Manufacturer

**LIMAT & CO., SBI PRAKASH 3CC Chaff Cutter
(Electric Motor Operated)**

Report No.: Machine-655/1717 Month: September Year: 2024



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Ministry of Agriculture and Farmers Welfare
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Machine- 655/1717	LIMAT & CO., SBI PRAKASH 3CC CHAFF CUTTER (Electric Motor Operated)	COMMERCIAL (ICT)
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Type of test : COMMERCIAL (ICT)
Name of Machine : Chaff Cutter (Electric Motor Operated)
Period of test : July, 2024 to August, 2024
Test Report No. : Machine-655/1717
Month / Year : September, 2024

- i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii) The test sample was selected randomly through virtual mode by institute.
- iii) The results presented in this report do not, in any way, attribute to the durability of the machine.
- iv) This report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training and Testing Institute, Garladinne, Anantapur (A.P.).
- v) This is a report on Commercial Test of Chaff Cutter named "LIMAT & CO., SBI PRAKASH 3CC CHAFF CUTTER (Electric Motor Operated)". This report is valid up to 31.08.2031, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

SELECTED CONVERSIONS

S. No.	Units	Conversion Factor
1	Force	
	1 kgf	9.80665 N
		2.20462 lbf
2	Power	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 Kw	1.35962 Ps
3	Pressure	
	1 psi	6.895 kPa
	1 kgf/cm ²	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm ²
	1 mm of Hg	1.3332 m-bar

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12. SUMMARY OF OBSERVATION, COMMENTS & RECOMMENDATIONS

- 12.1 Following modifications/improvements, being safety requirement, are required to be made to develop the chaff cutter as conforming to IS 15542:2005.
- 12.1.1 Provision for change the direction of feed roller should be made.
- 12.1.2 Manufacturer should also declare the rate input capacity of chaff cutter
- 12.2 Blade should be marked with size code, thickness and batch code number as per IS 11459:1985(Reaffirmed 2012).
- 12.3 **The following dimensions of chute for electric motor operated chaff cutter are not conforming to the recommendations of Dangerous Machine (Regulation) Rules, 2007 and needs to be looked into.**

Sl. No.	Description	Observation	Remarks
i)	Provision for changing the angle of placement of trough shall be made.	Not provided	Does not conform
ii)	At the rear side of the trough a support shall be made.	Not provided	Does not conform

12.4 Marking/labeling:

The labeling plate does not reveal all the required information. It is therefore recommended that a suitable labeling plate covering all essential components, inter alia, the following must be provided:

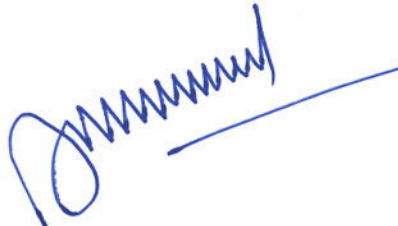


- i) Make
- ii) Country of origin
- iii) Power rating (kW)
- iv) Rated input capacity
- v) Recommended rpm of flywheel or cylinder

12.5 Adequacy of literature supplied with the machine:

Operation, Service, Maintenance manual cum part catalogue of chaff cutter in English was provided in a single booklet form for reference during the test. It is however, recommended that same may be revised and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel.

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TESTING AUTHORITY

PRAMOD YADAV AGRICULTURAL ENGINEER	
Dr. B.M. NANDEDE DIRECTOR	 

13. APPLICANT COMMENTS

Our reference	Applicant Comments
12.1	We will take corrective action to conform as per IS 15542:2005.
12.1.1	We will be provided to change direction of feed roller in future productions.
12.1.2	We will be provided to rated output capacity in future products.
12.2	We will be provided to blade size code, thickness and batch number as per IS 11459:1985 (Reaffirmed 2012).
12.3	i) We will modify the dimensions to changing the angle of placement of trough of chaff cutter conform. ii) We will provide the rear side of the trough a support in future product.
12.4	Your suggestion is noted, we will modify the labelling plate of machine as per your recommendations.
12.5	We will be brought out the literature as per IS 8132:1999 (Reaffirmed 2004).