

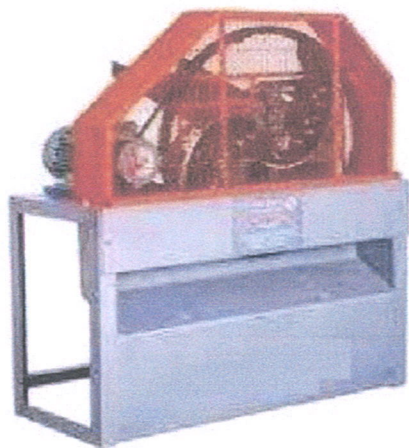
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: Machine-708/1808

माह/Month: January, 2025

**THIS TEST REPORT IS VALID UPTO 31.12.2031**



**SURYA AGRO, SURYA 2HP CC 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.)

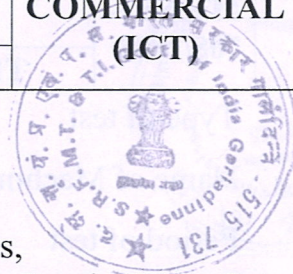
[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Machine-708/1808	<b>SURYA AGRO, SURYA 2HP CC CHAFF CUTTER (Electric Motor Operated)</b> <b>THIS REPORT IS VALID UPTO 31.12.2031</b>	<b>COMMERCIAL (ICT)</b>
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Manufacturer : M/s. Surya Agro Industries,  
Jaya Nagar, Hosa Holalu Road, K. R .Pet  
Tq-571425, Mandya District, Karnataka.

Applicant : The Manufacturer

**SURYA AGRO, SURYA 2 HP CC CHAFF CUTTER  
(Electric Motor Operated)**

Report No.: Machine-708/1808

Month: January

Year: 2025



**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
**Department of Agriculture and Farmers Welfare**  
**Southern Region Farm Machinery Training and Testing Institute**  
**Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)**  
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<b>SOUTHERN REGION FARM MACHINERY TRAINING &amp; TESTING INSTITUTE, ANANTAPUR (A.P.)</b>	<b>Page 2 of 31</b>
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Machine- 708/1808	SURYA AGRO, SURYA 2HP CC CHAFF CUTTER (Electric Motor Operated)	COMMERCIAL (ICT)
	THIS REPORT IS VALID UPTO 31.12.2031	

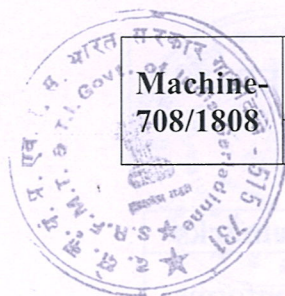
Type of test : COMMERCIAL(ICT)  
Name of Machine : Chaff Cutter (Electric Motor Operated)  
Period of test : December, 2024 to January, 2025  
Test Report No. : Machine-708/1808  
Month / Year : January, 2025

- 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 " **SURYA AGRO, SURYA 2HP CC CHAFF CUTTER (Electric Motor Operated)**". This report is valid up to **31.12.2031**, 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 <sup>2</sup>	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm <sup>2</sup>
	1 mm of Hg	1.3332 m-bar





Machine-  
708/1808

SURYA AGRO, SURYA 2HP CC CHAFF  
CUTTER (Electric Motor Operated)  
THIS REPORT IS VALID UPTO 31.12.2031

COMMERCIAL  
(ICT)

### 13. SUMMARY OF OBSERVATION, COMMENTS & RECOMMENDATIONS

**13.1** Following modifications/improvements, being safety requirement, are required to be made to develop the chaff cutter as conforming to IS 15542:2005.

**13.1.1** A minimum cautionary notice as per IS 15542:2005 shall be written in vernacular language on a labeling plate.

**13.2** Blade should be marked with size code, Batch code and thickness as per IS 1511:1979 (Reaffirmed 2012).

**13.3** The chemical composition of blade does not conform the IS 1511:1979 (Reaffirmed 2012). This should be looked into for corrective action.

**13.4** 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.

S. 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

**13.5 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, interlaid, the following must be provided:

- i) Make
- ii) Type
- iii) Require size of prime mover,(kW)

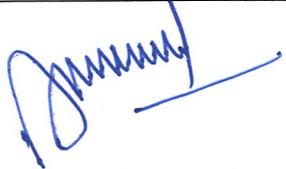


**13.6 Adequacy of literature supplied with the machine:**

Operation, Service, Maintenance manual cum part catalogue of chaff cutter in English were not provided 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.



Machine- 708/1808	SURYA AGRO, SURYA 2HP CC CHAFF CUTTER (Electric Motor Operated)	COMMERCIAL (ICT)
	THIS REPORT IS VALID UPTO 31.12.2031	

### TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	



### 14. APPLICANT'S COMMENTS

Sl. No.	Para No.	Comments
1	13.1	We will take corrective action in safety requirements to conform as per IS 15542: 2005 in future products.
2	13.1.1	We will provide all the cautionary notice as per IS 15542: 2005 in future products.
3	13.2	We will provide to blade size code, thickness and batch number as per IS 11459:1985 (Reaffirmed 2012) in future products.
4	13.3	We will make some changes in blade material to meet the requirements of IS 1511:1979 (Reaffirmed 2012)
5	13.4	The dimensions and shape of chute in chaff cutter future provide trough angle changing option and back side supports.
6	13.6	We will brought out the literature as per IS 8132:1999 (Reaffirmed 2004).