

**THIS REPORT IS VALID UPTO 31.10.2028**



**e-AGRO CARE EAC-003 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.)

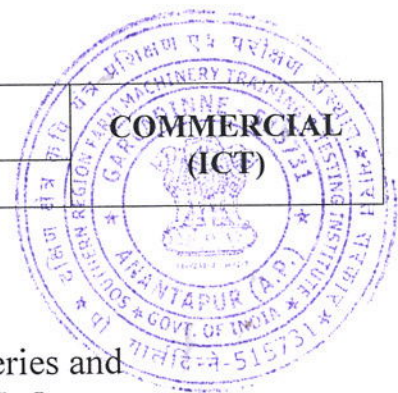
**[An ISO 9001:2015 CERTIFIED INSTITUTE]**

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Machine- 528/1561	e-AGRO CARE EAC-003 CHAFF CUTTER (Electric Motor Operated)	COMMERCIAL (ICT)
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Manufacturer : M/s. e-Agro care Machineries and equipments Pvt. Ltd, D-45, 5 star MIDC, Shendra, Aurangabad-431154 Maharashtra, India

Applicant : The manufacturer

### **e-Agro Care EAC-003 Chaff Cutter (Electric Motor Operated)**

Report No.: Machine-528/1561

Month: November

Year: 2023



सत्यमेव जयते

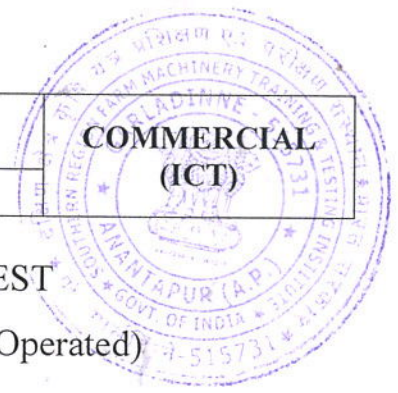
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Machine-528/1561	e-AGRO CARE EAC-003 CHAFF CUTTER (Electric Motor Operated)	COMMERCIAL (ICT)
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Type of test : INITIAL COMMERCIAL TEST  
 Name of Machine : Chaff Cutter (Electric Motor Operated)  
 Period of test : 29.06.2023 to 09.08.2023  
 Test Report No. : **Machine-528/1561**  
 Month / Year : November ,2023

- 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 "**e-Agro Care EAC-003 Chaff Cutter (Electric Motor Operated)**". This report is valid up to 31.10.2028, Vide Ministry's O.M. No. 13-24/2018-M&T (I&P) dated 19.09.2018.

### SELECTED CONVERSIONS

S. No	Units	Conversion Factor
1	<b>Force</b>	
	1 kgf	9.80665 N 2.20462 lbf
2	<b>Power</b>	
	1 hp	1.01287 metric hp (Ps) 745.7 W
	1 Ps	725.5 W
	1 kW	1.25962 Ps
2	<b>Pressure</b>	
	1 psi	6.895 kPa
	1 kgf/cm <sup>2</sup>	98.067 kPa = 725.56 mm of Hg
	1 bar	100 kPa = 10 N/cm <sup>2</sup>
	1 mm of Hg	1.2222 m-bar

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### 9.2.5 Wear analysis of blades :

Sl. No.	Initial mass(g)	Final mass(g)	Loss of mass (g)	Percentage of wear	Mass after 26.0 h of operation
1	911.9	909.0	2.9	0.32	0.012
2	887.2	884.0	3.2	0.36	0.014

### 10. EASE OF OPERATION & ADJUSTMENTS

No noticeable difficulty was observed during the operation and adjustment of the machine.

### 11. DEFECTS, BREAKDOWNS AND REPAIRS

No defects & breakdowns was observed during the entire test.

### 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** Cautionary notice as per IS 15542:2005 shall be written in vernacular language on a labeling plate.
- 12.2** Blade should be marked with size code, Batch code and thickness as per IS 1511:1979 (Reaffirmed 2012).
- 12.3** Except silicon remaining all constituents of blade are conforming the IS 1511:1979 (Reaffirmed 2012). This should be looked into for corrective action.
- 12.4** **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	<b>Does not conform</b>
ii)	At the rear side of the trough a support shall be made.	Not provided	<b>Does not conform</b>




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- 12.5** The particulars provided on labeling plate are not adequate. It is therefore recommended to provided the following terms:-
- I. Make
  - II. Year of manufacture
  - III. Power rating(kW)

**12.6 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.

**TESTING AUTHORITY:**

 <b>Er. PRAMOD YADAV</b> AGRICULTURAL ENGINEER	 <b>Er. D.C. MOULI</b> AGRICULTURAL ENGINEER
 <b>Dr. B.M. NANDE</b> DIRECTOR	

**13. APPLICANT'S COMMENTS**

Reference No.	Comments
12.2 & 12.3	It will be ensured in future production.
12.4 (ii)	It will be ensured in future production.
12.5 (II)	It will be provided in future production.
12.6	Literature will be brought in regional languages

