

THIS TEST REPORT IS VALID UP TO 31.01.2032



E- AGRO CARE, G-106 P POWER WEEDER



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.)

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Machine- 735/1837	E- AGRO CARE, G-106 P POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Chongqing Jiamu Machinery Mfg. Co. Ltd,
Chongqing, China.

Applicant : M/s. E- Agro Care Machineries and Equipments
Pvt Ltd Unit 61, Sector 5, Auric, Shendra MIDC,
CHH. Sambhajinagar (Aurangabad) 431154.

E- AGRO CARE, G-106 P POWER WEEDER

Report no.: Machine-735/1837

Month: February

Year: 2025

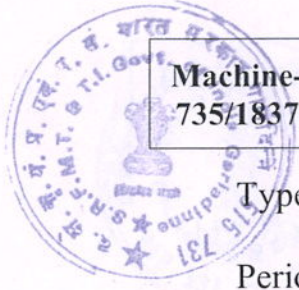


सत्यमेव जयते

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Machine-735/1837	E- AGRO CARE, G-106 P POWER WEEDER	COMMERCIAL (ICT)
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Type of test : COMMERCIAL (ICT)
Period of test : November, 2024 to February, 2025
Test Report No. : **Machine-735/1837**
Month / Year of release : February, 2025

- i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii) The data given in this report pertain to the particular machine randomly selected through virtual mode by testing authority.
- iii) The results presented in this report do not, in anyway, attribute to the durability of the machine.
- iv) This Test Report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training & Testing Institute, Garladinne, Anantapur (A.P.).
- v) This is a report on Commercial Test of Power Weeder named "**E- AGRO CARE, G-106 P POWER WEEDER**". This report is valid up to **31.01.2032**, 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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1	2	3	4	5
27	Marking/labeling of machine	The labeling plate should be riveted on the body of the machine having name and address of manufacturer & applicant, country of origin, make, model, year of manufacturer, serial number, engine number, engine HP, rated rpm & SFC.	Address of manufacturer, Make, Country of origin, and SFC are not provided.	Does not conform
28	Literature	Operator manual, service manual and parts catalogue should be provided.	Not Provided	Does not Conform

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 5.30 kW under natural ambient condition against the declared value of 6.6 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 285 g/kWh against the declared value of 280 g/kWh.
- 18.1.3 Back up torque of engine was observed as 8.36 % against declared value of 10%.
- 18.1.4 Max. torque was observed as 15.17 Nm against the declared value of 15.80 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the weeder was observed to the extent of 370 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Hardness and Chemical composition:

The Hardness and Chemical analysis of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

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18.4 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. Address of manufacturer
- ii. Make
- iii. Country of origin
- iv. Specific fuel consumption (g/kWh)

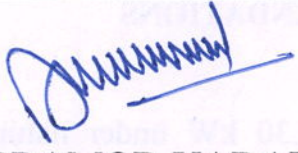
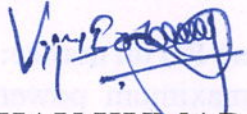

18.5 Technical literature:

User's manual is not provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

The following literature should be provided.

- i) Service manual
- ii) Parts catalogue

TESTING AUTHORITY

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



19. APPLICANT'S COMMENTS

Sl. No.	Para No.	Comments
1	18.1.1,18.1.2,18.1.3	We'll take up the issue with engine manufacturer and ensure quality improvement in future.
2	18.2, 18.3	It will be taken care as per recommendation in future production.
3	18.4	Marking will be done as per recommendations.
4	18.5	All literature will be provided and brought out as per recommended IS standards.