

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

संख्या/No: Machine-627/1686

COMMERCIAL TEST REPORT (INITIAL)

माह/Month: August, 2024

THIS TEST REPORT IS VALID UPTO 31/07/2031



AGRICARE, AC-7000D POWER WEEDER



सत्यमेव जयते

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.)

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Machine- 627/1686	AGRICARE, AC-7000D POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31/07/2031	

Manufacturer, (apa) : M/s. Taizhou Qinli Machinery Co. Ltd,
Yanhai Industrial Zone, Sanjia Str., Jiaojiang
district, Taizhou city, Zhejiang, China.

Applicant : M/s. SRI SAI AGRI TECH, 6-1-3949,
Shivam Complex, Opp TVS Show room,
Gangavathi Road, Sindhanur, Raichur
District, Karnataka-584128.

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Machine- 627/1686	AGRICARE, AC-7000D POWER WEEDER	COMMERCIAL (ICT)
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Type of test : COMMERCIAL (ICT)

Period of test : May, 2024 to July, 2024

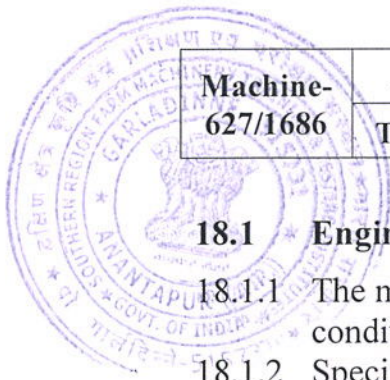
Test Report No. : Machine-627/1686

Month / Year of release : August, 2024

- 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 by testing authority.
- iii) The results presented in this report do not, in any way, 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 "AGRICARE, AC-7000D POWER WEEDER". This report is valid up to 31/07/2031 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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18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 3.82 kW under natural ambient condition against the declared value of 4.3 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 464 g/kWh against the declared value of 400 g/kWh.
- 18.1.3 Back up torque of engine was observed as 5.74 % against declared value of 10 %.
- 18.1.4 Max. torque was observed as 12.89 Nm against the declared value of 19 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 353 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 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) Address of applicant
- iii) Country of origin
- iv) Make
- v) Engine no.
- vi) Rated rpm
- vii) Specific fuel consumption (g/kWh)

18.4 Technical literature:

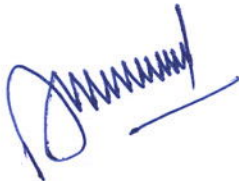

User's manual is not provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

The following literature should be provided.

- i) Service manual
- ii) Parts catalogue

Machine- 627/1686	AGRICARE, AC-7000D POWER WEEDER	COMMERCIAL (ICT)
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TESTING AUTHORITY

<p align="center">Er. PRAMOD YADAV AGRICULTURAL ENGINEER</p>	
<p align="center">Dr. B.M. NANDEDE DIRECTOR</p>	

19. Applicant Comments
Nil