

THIS TEST REPORT IS VALID UP TO 31.12.2031



AGRICARE, AC-7000T 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 (आ. प्र.)

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

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Machine- 714/1816	AGRICARE, AC-7000T POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : 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.

AGRICARE, AC-7000T POWER WEEDER

Report no.: **Machine-714/1816**

Month: **January**

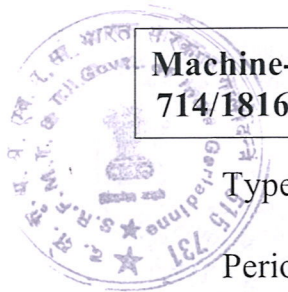
Year: **2025**



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Machine-714/1816	AGRICARE, AC-7000T POWER WEEDER	COMMERCIAL (ICT)
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Type of test : COMMERCIAL (ICT)
Period of test : December, 2024 to January, 2025
Test Report No. : **Machine-714/1816**
Month / Year of release : 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 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-7000T POWER WEEDER**”. 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 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 & applicant, Country of origin, year of manufacture, engine number, rated rpm & 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 and rated power was observed as 5.21 kW under natural ambient condition against the declared value of 5.5 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 0.379 g/kWh against the declared value of 455 g/kWh.
- 18.1.3 Back up torque of engine was observed as 8.50 % against declared value of 7%.
- 18.1.4 Max. torque was observed as 14.94 Nm against the declared value of 14 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 479 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Air cleaner oil pullover:

The percentage of air cleaner oil pull over at position of power weeder parked on ground level was recorded as 0.24 % against the declaration of 0.20%. The percentage of air cleaner oil pull over was considered very high at afore said position and this should be looked into for corrective action.

18.4 Hardness & Chemical analysis:

The Hardness & 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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18.5 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:

- Address of the manufacturer & applicant
- Country of origin
- Year of manufacturing
- Engine serial no.
- Rated rpm
- Specific fuel consumption, (g/kWh)




18.6 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.

- Service manual
- 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

-NIL-

SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)	Page 29 of 30
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