

THIS TEST REPORT IS VALID UPTO 31.12.2032



RAJA, 1000D 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.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

ICE/SRFMTTI,
ANANTAPUR/2025-26/
41/41/1973

RAJA, 1000D POWER WEEDER
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Manufacturer, (apa)

: Chongqing Rehoga Machinery Co. Ltd.,
No. 5, Mingquan Road, Qinjiagang Town,
Shapingba District, Chongqing, China.

Applicant

: M/s. Al-Burhan International,
16, B R B Basu Road, Kolkata, West Bengal,
India-700001.

RAJA, 1000D POWER WEEDER

Report no.: ICE/SRFMTTI, ANANTAPUR/2025-26/41/41/1973

Month: January

Year: 2026



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Website: <http://srfmtti.dacnet.nic.in/>


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Type of test : COMMERCIAL (ICT)
Period of test : November, 2025 to December, 2025
Test Report No. : ICE/SRFMTTI, ANANTAPUR/2025-26/41/41/1973
Month / Year of release : January, 2026

- 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 "RAJA, 1000D POWER WEEDER". This report is valid up to 31.12.2032, 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

 ANANTAPUR/2024-26/ 41/41/1973	RAJA, 1000D POWER WEEDER THIS TEST REPORT IS VALID UP TO 31.12.2032	COMMERCIAL (ICT)
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1	2	3	4	5
25	Provision for cover on exhaust	Must be provided	Provided	Conforms
26	Direction of exhaust emission away from operator	Must be provided	Provided	Conforms
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	Provided except Name and Address of Manufacturer & Applicant, Country of Origin, Year of Manufacturer, Serial Number, Rated Rpm & SFC	Does not conform
28	Literature	Operator manual, service manual and parts catalogue should be provided	Provided	Conforms

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 4.13 kW under natural ambient condition against the declared value of 4.0 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 325 g/kWh against the declared value of 330 g/kWh.
- 18.1.3 Back up torque of engine was observed as 3.02 % against declared value of 10%.
- 18.1.4 Max. Torque was observed as 13.30 Nm against the declared value of 9.0 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 272 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Chemical analysis:

The Chemical composition of rotor 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:

- Name of the machine
- Address of the manufacturer
- Address of the applicant
- Country of origin
- Year of manufacturer
- Size of the machine
- Rated RPM,
- SFC, (g/kWh)

18.5 Technical literature:

Service manual and parts catalogues of trailer were provided in English only. However, it is recommended that same may be brought out in Hindi and regional languages and accordance with IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel's.

TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. Y.K. RAO SENIOR AGRICULTURAL ENGINEER
  Dr. P.P. RAO DIRECTOR	

19 APPLICANT'S COMMENTS

We have noted your comments and recommendations & forwarded the same to our principle manufacturer, we will take corrective action as suggested by you.