

THIS TEST REPORT IS VALID UP TO 30.06.2032



RAJA, 1000G 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/ 21/21/1896	RAJA, 1000G POWER WEEDER THIS TEST REPORT IS VALID UP TO 30.06.2032	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Chongqing Shineray Agricultural Machinery Co. Ltd No.8. Shineray Raod, Hangu Town, Jiulongpo, District, Chongqing-401329 **China.**

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

RAJA, 1000G POWER WEEDER

Report no.: ICE/SRFMTTI, ANANTAPUR/2025-26/21/21/1896

Month: **July**

Year: **2025**



सत्यमेव जयते

Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
Southern Region Farm Machinery Training and Testing Institute
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)
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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR (A.P.)	Page 2 of 30
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ICE/SRFMTTI,
ANANTAPUR/2025-26/
21/21/1896

RAJA, 1000G POWER WEEDER
THIS TEST REPORT IS VALID UP TO
30.06.2032

COMMERCIAL
(ICT)

Type of test

: COMMERCIAL (ICT)

Period of test

: May, 2025 to July, 2025

Test Report No.

: ICE/SRFMTTI, ANANTAPUR/2025-26/21/21/1896

Month / Year of release

: July, 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 through virtual mode.
- 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 **“RAJA, 1000G POWER WEEDER”**. This report is valid up to **30.06.2032**, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

SELECTED CONVERSIONS

Sl. 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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COMMERCIAL
(ICT)



18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 3.94 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 387 g/kWh against the declared value of 395 g/kWh.
- 18.1.3 Back up torque of engine was observed as 6.81 % against declared value of 10.0 %.
- 18.1.4 Max. torque was observed as 10.97 Nm against the declared value of 12.5 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder (Depth adjusting knob) was observed to the extent of 497 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 The Hardness and Chemical Analysis:

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

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:

1. Name And Address of Manufacturer
2. Name And Address of Applicant
3. Country of Origin
4. Year of Manufacturer
5. Size of the Machine
6. Specific Fuel Consumption, (g/kWh)

18.5 Technical literature:

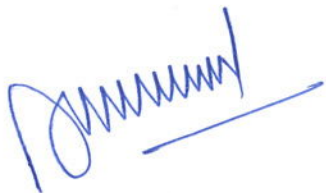

User's manual is provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

The following literature should be provided.

- i) Service manual
- ii) Parts catalogue

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TESTING AUTHORITY

 <p>Er. PRAMOD YADAV AGRICULTURAL ENGINEER</p>	 <p>Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER</p>
  <p>Dr. P.P.RAO DIRECTOR</p>	

19 APPLICANT'S COMMENTS

We will match all the requirements and suggestions as stated in the chapter no. 18.