

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: ICE/SRFMTTI,
ANANTAPUR/2025-26/42/42/1974
माह/Month: January, 2026

THIS TEST REPORT IS VALID UP TO 31.12.2032



RAJA, 1350D POWER WEEDER



Government of India

कृषिएवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषिएवं 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, गार्लादिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

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

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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ICE/SRFMTTI,
ANANTAPUR/2025-26/
42/42/1974

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Manufacturer, (apa) : **M/s Chongqing Shinery Agricultural Machinery Co. Ltd., 1-1, No. 8, Shinery Road, Hangu Town, Jiulongpo District, Chongqing, China-401329.**

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

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ANANTAPUR/2025-26/

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RAJA, 1350D POWER WEEDER

THIS TEST REPORT IS VALID UP TO

31.12.2032

COMMERCIAL
(ICT)

Type of test : COMMERCIAL (ICT)

Period of test : October, 2025 to December, 2025

Test Report No. : ICE/SRFMTTI, ANANTAPUR/2025-26/42/42/1974

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 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, 1350D 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

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



18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

18.1.1 The rated power and maximum power were observed as 6.17 kW under natural ambient condition against the declared value of 6.0 kW.

18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 314 g/kWh against the declared value of 330 g/kWh.

18.1.3 Back up torque of engine was observed as 6.42% against declared value of 11 %.

18.1.4 Max. torque was observed as 20.54 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 369 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 hardness and chemical analysis of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022) does not conforms. This should be looked into 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) Name and address of manufacturer,
- ii) Name and address of applicant,
- iii) Country of origin,
- iv) Year of manufacturer,
- v) Rated rpm &
- vi) SFC, (g/kWh)

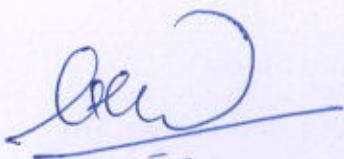
18.4 Technical literature:

Operator's manual, service manual and parts catalogue of power weeder in separate booklet were supplied for reference during the test. It is however, recommended that same may be revised in Hindi and other regional languages as per 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.