

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

संख्या/No: ICE/SRFMTTI,
ANANTAPUR/2025-26/40/40/1972

COMMERCIAL TEST REPORT (INITIAL)

माह/Month: January, 2026

THIS TEST REPORT IS VALID UP TO 31.12.2032



ZOHAN AGRO INDIA PVT. LTD., ZAI 1100P POWER WEEDER



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]

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ICE/SRFMTTI, ANANTAPUR/2025-26/ 40/40/1972	ZOHAN AGRO INDIA PVT. LTD., ZAI 1100P POWER WEEDER THIS TEST REPORT IS VALID UP TO 31.12.2032	
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Manufacturer, (apa)

: **Chongqing Joymotion Equipment Co. Ltd.,**
1-1, No. 99, Deyuan Road, Degan Street, Jiangjin District, (1-1, Building 10, Standard Factory Building, Chongqing Smart Technology City, Plot (C4-02-1) Chongqing City, **China.**

Applicant

: **Registered office:**
Zohan Agro India Private Limited,
Rajesh 2nd Floor, Main Dadri Road, Village – Barola, Goutham Buddha Nagar, Noida, UP, India-201 301.

Branch Office:

Zohan Agro India Private Limited,
At/Po-Kanipada, Sabalanga, Kendrapara, Odisha – 754208.

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Report no: **ICE/SRFMTTI, ANANTAPUR/2025-26/40/40/1972**

Month: **January**


Year: **2026**



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Type of test : COMMERCIAL (ICT)

Period of test : October, 2025 to January, 2026


Test Report No. : ICE/SRFMTTI, ANANTAPUR/2025-26/40/40/1972

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 “**ZOHAN AGRO INDIA PVT. LTD., ZAI 1100P 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

 <p>ICE/SRM/MTT ANANTAPUR/2022-23/26/ 40/40/1972</p>	<p>ZOHAN AGRO INDIA PVT. LTD., ZAI 1100P POWER WEEDER THIS TEST REPORT IS VALID UP TO 31.12.2032</p>	<p>COMMERCIAL (ICT)</p>
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18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The rated power and maximum power was observed as 5.33 kW under natural ambient condition against the declared value of 5.30 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 418 g/kWh against the declared value of 420 g/kWh.
- 18.1.3 Back up torque of engine was observed as 7.02 % against declared value of 10%.
- 18.1.4 Max. torque was observed as 14.94 Nm against the declared value of 15 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 484 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Hardness & 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.

18.4 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:

- SFC, (g/kWh)




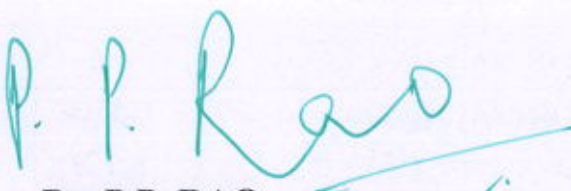
This should be looked into for necessary corrective action.

18.5 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.

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TESTING AUTHORITY

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

19. APPLICANT COMMENTS

Reference	Applicant Comments
18.1.1 & 18.1.4	We will inform it to our manufacturer for making necessary possible changes in the machine.
18.2	We will insist strongly to the manufacturer to put some vibration dampeners.
18.3	We will make some changes in blade material to meet the requirements of IS 6690:1981 (Reaffirmed 2022).
18.4	Your suggestion is noted, we will modify the labeling plate of machine as per your recommendations.
18.5	We will be brought out the literature as per IS 8132:1999 (Reaffirmed 2004).