

**THIS TEST REPORT IS VALID UPTO 28.02.2031**



**WEIMA, WM1000N POWER WEEDER**



सत्यमेव जयते

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]

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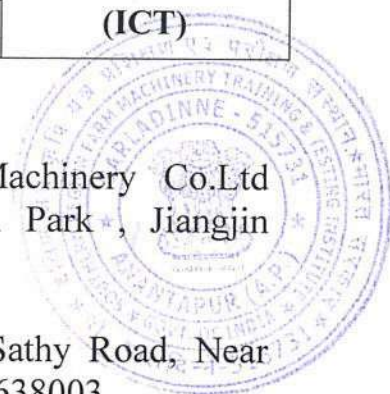
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Tele.: 08551-286441

Machine- 548/1597	WEIMA, WM1000N POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/S. Weima Agricultural Machinery Co.Ltd  
Area B, Luohuang Industrial Park, Jiangjin  
District, Chongqing, China

Applicant : M/S. VJ Materials Mart, 113, Sathy Road, Near  
Rukmani Ammal Hotel, Erode-638003



**WEIMA, WM1000N POWER WEEDER**

Report no.: Machine-548/1597

Month: March

Year: 2024



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**Government of India**  
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Machine- 548/1597	WEIMA, WM1000N POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 28.02.2031	

Type of test : COMMERCIAL (INITIAL)  
 Period of test : 07.11.2024 to 28.02.2024  
 Test Report No. : Machine-548/1597  
 Month / Year of release : March, 2024

- 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 "WEIMA, WM1000N POWER WEEDER". This report is valid up to 28.02.2031, 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	<b>Force</b>	
	1 kgf	9.80665 N
		2.20462 lbf
2	<b>Power</b>	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	<b>Pressure</b>	
	1 psi	6.895 kPa
	1 kgf/cm <sup>2</sup>	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm <sup>2</sup>
	1 mm of Hg	1.3332 m-bar



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## 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 3.75 kW under natural ambient condition against the declared value of 4.8 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 408 g/kWh against the declared value of 320 g/kWh.
- 18.1.3 Back up torque of engine was observed as 4.47% against declared value of 5%.
- 18.1.4 Max. torque was observed as 10.97 Nm against the declared value of 12 Nm.

### 18.2 Mechanical vibration :

The amplitude of mechanical vibration on various assemblies of the weeder was observed to the extent of 289 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

- 18.3 The hardness of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

- 18.4 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) Make
- ii) Country of origin
- iii) Specific fuel consumption (g/kWh)
- iv) Serial no. of machine
- v) Address of manufacturer

### 18.5 Technical literature:

Owner's manual, service manual and parts catalogue provided in booklet form in English for reference during the test. It is recommended that same must be revised in and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel in booklet form.

Machine- 548/1597.	WEIMA, WM1000N POWER WEEDER	COMMERCIAL (ICT)
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**TESTING AUTHORITY**

 <b>Er. PRAMOD YADAV</b> AGRICULTURAL ENGINEER	 <b>Er. D.C. MOULI</b> AGRICULTURAL ENGINEER
 <b>Dr. B.M. NANDEDE</b> DIRECTOR	

**19. APPLICANT'S COMMENTS**

We will take proper action against all the comments and recommendations specified in the draft report for further products of our company.