

THIS TEST REPORT IS VALID UP TO 31.05.2031



GEORGE MAIJO, WM 1100CM ELITE 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 परीक्षणसं स्थान

Southern Region Farm Machinery Training and Testing Institute

ट्रैक्टरनगर, गार्लदिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

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

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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

Machine- 582/1637	GEORGE MAIJO, WM 1100CM ELITE POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Weima Agricultural Machinery Co. Ltd.
Area B, Luohuang Industrial Zone, Jiangjin
District, Chongqing, **China.**

Applicant : M/s. Georg Maijo Industries Pvt. Ltd.,
2B, Apex plaza, #5, Nungambakkam High Road,
Chennai – 600034.

GEORGE MAIJO, WM 1100CM ELITE POWER WEEDER

Report no.: **Machine-582/1637**

Month: **June**

Year: **2024**



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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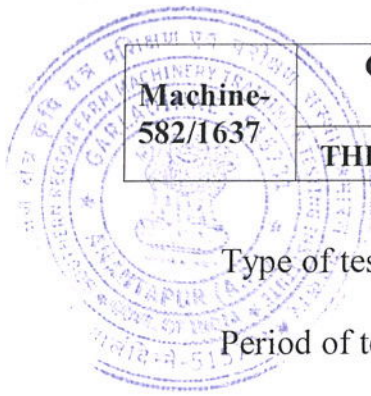
Telephone: 08551-286441

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

E-mail: fnti-sr@nic.in

**SOUTHERN REGION FARM MACHINERY TRAINING &
TESTING INSTITUTE, ANANTAPUR, (A.P.)**

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Machine-582/1637	GEORGE MAIJO, WM 1100CM ELITE POWER WEEDER	COMMERCIAL (ICT)
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Type of test : COMMERCIAL (ICT)
Period of test : April, 2024 to June, 2024
Test Report No. : **Machine-582/1637**
Month / Year of release : June, 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 selected randomly through virtual mode by testing authority.
- 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 **"GEORGE MAIJO, WM 1100CM ELITE POWER WEEDER"**. **This report is valid up to 31.05.2031, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.**

vi) **SELECTED CONVERSIONS**

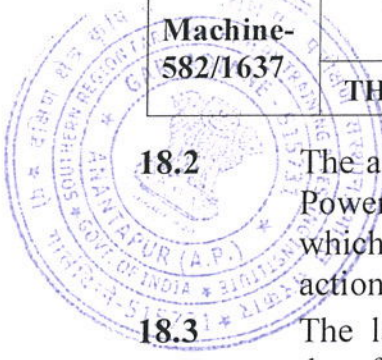
S. No.	Units	Conversion Factor
1	Force	
	1 kgf	9.80665 N
		2.20462 lbf
2	Power	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	Pressure	
	1 psi	6.895 kPa
	1 kgf/cm ²	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm ²
	1 mm of Hg	1.3332 m-bar

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1	2	3	4	5
21	Provision for easy start of engine	Must be provided	Provided	Conforms
22	Provision for shield/cover to prevent flying of mud and stone from rotor	Must be provided	Provided	Conforms
23	Depth control mechanism	Must be provided	Provided	Conforms
24	Provision for transport wheels	Must be provided	Provided	Conforms
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	Address of manufacturer & applicant, country of origin, year of manufacturer, engine no., rated rpm & SFC are not provided	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 3.78 kW under natural ambient condition against the declared value of 4.3 kW respectively.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 470 g/kWh respectively against the declared value of 400 g/kWh.
- 18.1.3 Max. Torque was observed as 11.25 Nm against the declared value of 24 Nm.
- 18.1.4 Back up torque of engine was observed as 9.12 % against declared value of 10 %.



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18.2 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 532 microns, which is higher than the limit specified by the ILO. Therefore, necessary action to dampen the vibration should be taken in to account.

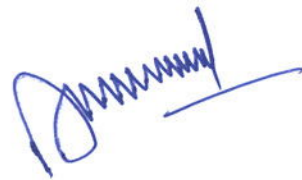


18.3 The labeling plate does not reveal all the required information. It is therefore recommended that a suitable labeling plate covering all essential components inter alia, the following must be provided:

- i) Address of manufacturer
- ii) Address of applicant
- iii) Year of manufacture
- iv) Engine no.
- v) Rated RPM
- vi) Country of origin
- vii) Specific fuel consumption (g/kWh)

18.4 Technical literature:

Instruction manual and parts catalogue of power weeder and engine in a single booklet was supplied with the test sample for reference during the test. It is however, recommended that same may be revised and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel.

TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. P. KAMALABAI SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	



19. APPLICANTS COMMENTS

Our company will take necessary actions to rectify the same.