

व्यावसायिक परीक्षण रिपोर्ट(प्रारंभिक)

संख्या/No: Machine-641/1703

COMMERCIAL TEST REPORT (INITIAL)

माह/Month: August, 2024

THIS TEST REPORT IS VALID UP TO 31.07.2031



FEDE, MILYF PROMAX 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]

Machine- 641/1703	FEDE, MILYF PROMAX POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Chongqing Guenteng Machinery Co. Ltd.
Dazu High Tech zone, Chongqing, **China**.

Name and address of the assembler : M/s. FEDE Industries Private Limited,
Ground Floor, 22,0, Rajdanga Nabapally, Kolkata-
700107, West Bengal.

Applicant : The assembler

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Machine-641/1703	FEDE, MILYF PROMAX POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.07.2031	

Type of test : COMMERCIAL (ICT)
 Period of test : July, 2024 to August, 2024
 Test Report No. : **Machine-641/1703**
 Month / Year of release : August, 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 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 "**FEDE, MILYF PROMAX POWER WEEDER**". This report is valid up to **31.07.2031, 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	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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18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum and rated power was observed as 5.47 kW under natural ambient condition against the declared value of 5.3 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 461 g/kWh against the declared value of 480 g/kWh.
- 18.1.3 Back up torque of engine was observed as 8.05 % against declared value of 10 %.
- 18.1.4 Max. torque was observed as 15.70 Nm against the declared value of 18 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 338 micron. In view of the above, this should be given top priority for corrective action.

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:

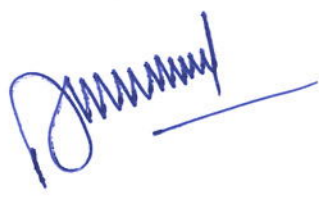


- i) Name & Address of the manufacturer
- ii) Country of origin
- iii) Make
- iv) Engine no.
- v) Specific fuel consumption (g/kWh)

18.4 Technical literature:

Operators manual and parts catalogue of power weeder were supplied with test sample for reference during the test. It is how ever , recommended that same way be revised and brought out in Hindi & other regional languages as per IS:8132-1999(reaffirmed 2019) for the sake of user & technical personnel in booklet form.

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TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	
Dr. B.M. NANDEDE DIRECTOR	 

19. APPLICANT'S COMMENTS

Reference No.	Comments
18.2	We will take corrective action to damper the mechanical vibration in future production.
18.3	Henceforth we will provide all the required parameters to be mentioned in the labelling plate as per IS 10273:1987.
18.4	Owners/Operators/Service/parts catalogue manual brought out in Hindi and others Regional Languages as per IS 8132:1999 (Reaffirmed 2004) inclusive of fuel saving tips.