

THIS REPORT IS VALID UPTO 31.10.2028



FEDE, MILYF 7 GM -B 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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Machine- 533/1571	FEDE, MILYF 7 GM -B POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/S. Chongqing Guenteng Machinery Co. Ltd.,
Dazu High Tech Zone , Chongqing , **China**

Applicant : M/S. FEDE Industries Private Limited,
Ground Floor, 22,0, Rajdanga Nabapally,
Kolkata-700107, West Bengal

FEDE, MILYF 7 GM –B POWER WEEDER

Report No. : **Machine-533/1571**

Month: **November**

Year: **2023**



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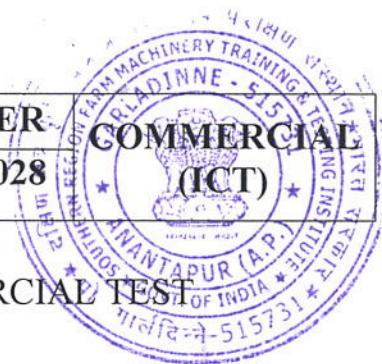
Government of India
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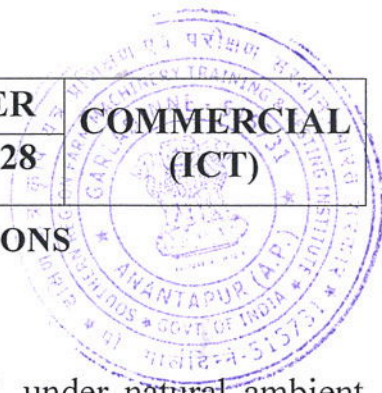
Type of test : INITIAL COMMERCIAL TEST
 Period of test : 07.08.2023 to 21.11.2023
 Test Report No. : Machine-533/1571
 Month / Year of release : November , 2023

- i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii) The results presented in this report do not, in any way, attribute to the durability of the machine.
- iii) 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.).
- iv) This is a report on Commercial Test of Power Weeder named “ FEDE, MILYF 7 GM –B POWER WEEDER Power Weeder”. This report is valid up to 31.10.2028, Vide Ministry’s O.M. No. 13-24/2018-M&T (I&P) dated 19.09.2018.

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

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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

- 17.1.1 The maximum power was observed as 3.75 kW, under natural ambient condition against the declared value of 4.2 kW.
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 384 g/kWh against the declared value of 350 g/kWh.
- 17.1.3 Max. Torque was observed as 11.48 Nm against the declared value of 12 Nm.
- 17.1.4 Back up torque of engine was observed as 6.5 %, against the declared value of 10%.

17.2 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 331 microns, which is on higher side. Therefore corrective action to reduce the vibration should be taken up.

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

17.4 Chemical composition of Silicon of rotary blade is not as per the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

17.5 Labeling of power weeder :

17.5.1 Engine model as mentioned on labeling plate of machine is not embossed or etched or punched on engine. It is essential thing for identification of engine model .This should be looked into for necessary corrective action for distinct identification of engine model.

17.5.2 The model of power weeder was mentioned as '67GM-B'. Where, as same has been declared as MILYF GM-B. This needs to be looked into for necessary correction

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




1. Make
2. Specific fuel consumption (g/kWh)
3. Engine no.
4. Rated power (kW)
5. Address of manufacturer

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17.6 Technical literature:

Operators manual and parts catalogue of power weeder were not supplied with test sample for reference during the test. It is however, recommended that to brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2019) for the sake of user & technical personnel in booklet form.

TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. D.C.MOULI AGRICULTURAL ENGINEER
 Dr. B.M NANDEDE DIRECTOR	

18. APPLICANT'S COMMENTS

Reference No.	Comments
17.1.1 to 17.1.4	We already informed to our principal company to take corrective action.
17.2	For reduce vibration we take action as soon as possible.
17.3 to 17.4	Hardness and chemical composition of blades, we will replace the blades in production level for better quality performance.
17.5	We ensure that in the labelling plate make, specific fuel consumption and our address properly in our production level.
17.6.	We ensure that we revise operator manual and service/parts catalogue.

