

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT
(INITIAL)

संख्या /No: Machine-416/1248
माह:/Month: January, 2021
Validity: 31.12.2025



FEDE MILYF 8 DE POWER WEEDER



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि, सहकारिता एवं किसान कल्याण विभाग

Department of Agriculture, Cooperation and Farmers Welfare

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Southern Region Farm Machinery Training and Testing Institute

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Tele.: 08551-286441

Machine-416/1248	FEDE MILYF 8 DE POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Chongqing Guanteng Machinery Co. Ltd., Dazu High Tech Zone, Chongqing, **China.**

Applicant : M/s. Fede Industries Private Limited, 2nd Floor, Room No. 2/92, Prangan Market, Bimal Sinha Road, Berhampore, Murshidabad - 742 101, West Bengal, **India.**

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सत्यमेव जयते

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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)	Page 2 of 31
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Machine- 416/1248	FEDE MILYF 8 DE POWER WEEDER	COMMERCIAL (ICT)
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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

17.1.1 The maximum power and rated power were observed 5.9 & 2.7 kW under natural ambient condition against the declared value of 5.8 kW & 5.5 kW respectively.

17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 304 g/kWh against the declared value of 187 g/kWh. This should be looked into for corrective action.

17.1.3 Max. Torque was observed as 20.39 Nm against the declared value of 16.0 Nm.

17.1.4 Back up torque of engine was observed as 4.40 %, against the declared value of 15 %. This should be looked into for corrective action.

17.1.5 **During varying speed test of engine at both natural & high ambient conditions after attaining max. torque at 20.36 Nm & 19.69 Nm respectively, while further loading, sudden drop of engine speed and thick black smoke were noticed.**

17.2 Max. Noise at operator's ear level was observed as 98 dB (A), which is on higher side. Therefore, this should be looked into for corrective action

17.3 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 375 microns, which is higher side. Therefore necessary action to dampen the vibration should be taken in to account.

17.4 The hardness of rotary blades conforms to the requirement of IS 6690:1981 (Reaffirmed 2012).

17.5 The chemical composition of rotary blades conforms to the requirement of IS 6690:1981 (Reaffirmed 2012).




17.6 The provided labeling plate should be as per the requirement IS.

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17.7 Technical literature:

Operation manual of engine, operation/maintenance manual and parts catalogue of power weeder in separate booklets in english were 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:

B.N. DIXIT AGRICULTURAL ENGINEER	
P.C. MESHAM SENIOR AGRICULTURAL ENGINEER	
Dr. P.P. RAO DIRECTOR	

18. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
18.1	17.1.2	We are informing our principal company to reduce the fuel consumption nearby declared value
18.2	17.1.3	We are taking corrective action with the principal company for immediate correction on the deviation
18.3	17.1.4	We are taking corrective action with the principal company for immediate correction on the deviation
18.4	17.1.5	That may be happened for opening of governor at full load fuel cut off point. But we are informing our principal to check the same at their end and do the need full for necessary correction
18.5	17.2	Informing manufacturer to use more developed silencer to restrict the noise
18.6	17.3	We will use more padding on the fastener joints to reduce the vibration for driver comfort
18.7	17.6	We are assuring the labels will be as per Indian Standard as soon as possible
18.8	17.7	We will do the same immediately as per your advice