



**FARM AGRO TECH MACHINERY FATM-168B
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

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- 312/1079	FARM AGRO TECH MACHINERY FATM-168 B POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Chongqing Meiqi Industry Co. Ltd.,
Chongqing Kzoor Electromechanical Co.
Ltd., **China.**

Applicant : M/s. Farm Agro- Tech Machinery,
APMC Road, V V Nagar,
Mandya - 571 401, Karnataka, **India**

FARM AGRO TECH MACHINERY FATM-168B POWER WEEDER
 Report No. : Machine-312/1079 Month: September Year: 2019



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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

17.1.1 The maximum power and rated power were observed as 2.3 & 2.2 kW under natural ambient condition against the declared value of 4.1 kW. This should be looked into for corrective action.

17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 403 g/kWh against the declared value of 290 g/kWh. This should be looked in to for corrective action.

17.1.3 Max. Torque was observed as 6.8 Nm against the declared value of 16 Nm. This should be looked into for corrective action.

17.1.4 Back up torque of engine was observed as 3.5 %, against the declared value of 10%. This should be looked into for corrective action.

17.2 Max. Noise at operator's ear level was observed as 90 dB (A).

17.3 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed to the maximum extent of 345 microns, Which is directly concerned with Operator's Health, Safety and Comfort. Besides, it also adversely affect the useful life of the components. In view of the above, this should be taken care for corrective action.

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

17.5 All the constituents except silicon content of chemical composition of rotary blades conforms to the requirement of IS 6690:1981 (reaffirmed 2012). This should be looked into for corrective action.


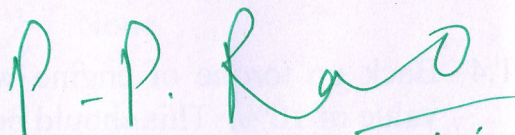
17.6 Labeling plate provided should be as per the requirement of IS.

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17.7 Technical literature:

The Operation and maintenance manual of power weeder and engine was supplied with the test sample for reference during the test. It is however recommended that same may be revised and bought 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	
Dr. P.P. RAO DIRECTOR	

18. APPLICANT'S COMMENTS

"We will consider and inform your recommendations to our principal manufacturer to make all possible and necessary changes for our future products".