

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT

(INITIAL)

संख्या / No: Machine-284/1027

माह / Month: June, 2019

Validity: 31.05.2024



AGRIMATE AM-MPT-1100-6D 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 (आ. प्र.)

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

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Tele./FAX: 08551-286441

Machine-284/1027	AGRIMATE AM-MPT-1100-6D POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Chongqing Weima Agricultural Machinery Co. Ltd., PC: 402283, 3#, Yuxang Road, Area B, Luohuang Industry Zone, Jiangjin District, Chongqing, **China** - 402 283.

Applicant : M/s. Ratnagiri Impex Pvt. Ltd., Annapurna House, # 1/1G, 7th Cross, New Guddadahalli, Mysore Road, Bangalore – 560 026, Karnataka, **India**.

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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:


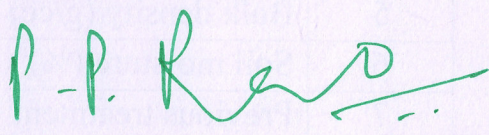
- 17.1.1 The maximum & rated power were observed as 4.5 kW under natural ambient condition against the declared value of 4.4 and 4.2 kW as maximum & rated power respectively.
- 17.1.2 Back up torque of engine was observed as 7.04 % against the declared value of 10 %. This should be looked into for corrective action.
- 17.1.3 Specific fuel consumption of engine corresponding to maximum power and at rated engine speed was recorded as 256 g/kWh against the declared value of 290 g/kWh.
- 17.1.4 Maximum torque was observed as 15.2 Nm against the declared value of 11.9 Nm.
- 17.2 Maximum Noise at operator's ear level was observed as 96 dB (A), which is higher as per ILO. Therefore corrective action to reduce the noise should also be taken.
- 17.3 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed as higher side and to the maximum extent of 347 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. This should be looked into for corrective action.
- 17.4 The hardness of rotor blades conforms to the requirement of IS 6690:1981 (Reaffirmed 2012).
- 17.5 All constituents except silicon of chemical composition of rotor blade are conforming the requirement of IS 6690:1981 (Reaffirmed 2012). this should be looked into for corrective action.
- 17.6 The labeling plate should be provided as per the requirements of IS.

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17.7 Technical literature:

The user manual & parts catalogue of engine and power weeder in a single booklet was supplied along 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 take further corrective action regarding upgradation of the above equipment through our vendor/supplier".