



MAIJO WM 1100C - 6 DLX 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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Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

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Machine-316/1088	MAIJO WM 1100C -6 DLX POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Chongqing Weima Agricultural Machinery Co. Ltd., Area B, Luohuang Industry Zone, Jiangjin District, Chongqing, **China-402283.**

Applicant : M/s. George Maijo Industries Pvt. Ltd., 2B, Apex Plaza, 5, Nungambakkam High Road, Chennai- 600 034, Tamil Nadu, **India**

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Report No. : Machine-316/1088 Month: October Year: 2019



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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

- 17.1.1 The maximum & rated power were observed as 6.1 kW under natural ambient condition against the declared value of 5.8 kW as maximum & rated power.
- 17.1.2 Back up torque of engine was observed as 8.72 % against the declared value of 10 %.
- 17.1.3 Specific fuel consumption of engine corresponding to maximum power and at rated engine speed was recorded as 274 g/kWh against the declared value of 320 g/kWh.
- 17.1.4 Maximum torque was observed as 17.6 Nm against the declared value of 21.0 Nm. This should be looked into for corrective action.
- 17.2** Maximum Noise at operator's ear level was observed as 95 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 to the maximum extent of 490 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 does not conform to the requirement of IS 6690:1981 (Reaffirmed 2012). This should be looked into for corrective action.
- 17.5** Silicon and manganese content of chemical composition of rotary blades are not conforming the requirement of IS 6690:1981 (Reaffirmed 2012). this should be looked into for corrective action.

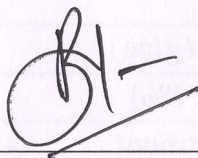

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17.6 Labeling plate provided should be as per the requirement of IS.

17.7 **Technical literature:**

The user manual cum service 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 inform all your recommendations to the manufacturer to make all possible and necessary changes for our future products".