



PUBERT MAESTRO 55P 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- 304/1059	PUBERT MAESTRO 55P POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. PUBERT,
Z.I. de Pierre Brune, I.B.P. 25, 851111,
Chantonnary, Cedex, **France.**

Applicant : M/s. Pubert India Pvt. Ltd.,
303, Manomaya Residency, NRI Layout,
Double Kalkere Road, Ramamurthy Nagar,
Bangalore – 560 016, Karnataka, **India**

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Report No. : Machine-304/1059 Month: September

Year: 2019



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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)	Page 2 of 31
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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

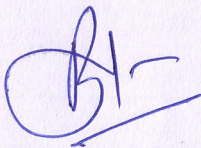
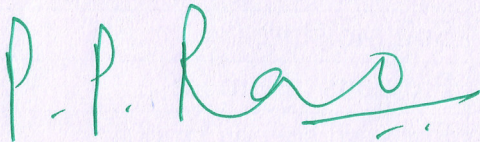
- 17.1.1 The maximum power and rated power were observed as 4.3 kW under natural ambient condition against the declared value of 4.0 kW.
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 302 g/kWh against the declared value of 330 g/kWh.
- 17.1.3 Max. Torque was observed as 13.8 Nm against the declared value of 13.0 Nm.
- 17.1.4 Back up torque of engine was observed as 11.3 %, against the declared value of 10 %.
- 17.2** Max. Noise at operator's ear level was observed as 85 dB (A).
- 17.3** The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed on higher side and to the maximum extent of 306 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 conforms to the requirement of IS 6690:1981 (Reaffirmed 2012).
- 17.5** Constituents of chemical composition of rotary blades, except the carbon and manganese conform 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 user & maintenance manual and parts catalogue of power weeder and engine were 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

Para No.	Our reference	Applicant's comments
(1)	(2)	(3)
18.1	17.3	We will work on the comments for all our future production models, in support with our production & R&D team based at France. We will use anti vibration rubber grip at handle bar for operator comfort, safety and health. We will also look into adding vibration absorbing gaskets at all joints where ever possible in all our future models.
18.2	17.5	We will take action in coordination with our R&D team in our factory in France by working on chemical composition of the rotary blades to make carbon and manganese confirm to IS 6690:1981 for all future models.
18.3	17.6	Al labeling plate will be provided as per IS in all future models.
18.4	17.7	We will provide maintenance and parts catalogue of power weeder in Hindi and other regional languages as per US 8132:1999 (Reaffirmed 2004) for easy and better understanding of the operator.