



HUSQVARNA TF 230 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.)

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Machine- 396/1224	HUSQVARNA TF 230 POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Husqvarna AB,
SE-561 82, Huskvarna, Sweden
(designed and Sourced)

Applicant : M/s. Husqvarna India (Products)
Private Limited, First Floor, Swees
House, No. 5, Sir P S Sivaswamy
Salai, Mylapore, Chennai - 600 004,
Tamil Nadu, India.

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Report No. : Machine-396/1224 Month: November

Year: 2020



सत्यमेव जयते

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17. COMMENTS & RECOMMENDATIONS

17.1 Engine performance:

- 17.1.1 The maximum power and rated power were observed as 3.3 kW respectively under natural ambient condition against the declared value of 3.4 kW.
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 424 g/kWh against the declared value of 395 g/kWh
- 17.1.3 Max. Torque was observed as 9.1 Nm against the declared value of 11.0 Nm.
- 17.1.4 Back up torque of engine was observed as 5.32 %.
- 17.1.5 **During varying speed test of engine at both natural & high ambient conditions after attaining max. torque at 9.1 Nm & 8.4 Nm respectively, while further loading, sudden drop of engine rpm was observed.**
- 17.2 Max. Noise at operator's ear level was observed as 86 dB (A).
- 17.3 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 270 microns, Therefore, 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 Chemical composition of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2012). Therefore this should be looked into for corrective action

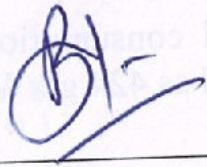

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17.6 The provided labeling plate should be as per the requirement IS.

17.7 Technical literature:

Operator's manual and parts catalogue of power weeder in separate booklets 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	
Dr. P.P. RAO DIRECTOR	

17. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
18.1	17.3	We will be follow-up with quality control department and take corrective action to reduce mechanical vibration in future products.
18.2	17.5	We will investigate the chemical composition of rotor blades and will look to meets the requirement in future products.
18.3	17.6	We will look into the same
18.4	17.7	We will look into the same