



KISAN SHAKTHI KS-RC 4200A 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- 297/1052	KISAN SHAKTHI KS-RC 4200A POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Zhejiang Wenxin Mechanical & Electrical Co. Ltd., Binhai Industry Zone, Economic Development Area, Taizhou City, Zhejiang Province, **China** - 317 100.

Applicant : M/s. Bhagya Lakshmi Agro Agencies, Ward No. 26, # 26/662 & 663, Chennakesavapuram, Dharmavaram - 515 671, Ananthapuramu Dist., Andhra Pradesh, India.

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Report No. : Machine-297/1052 Month: August

Year: 2019



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16. COMMENTS & RECOMMENDATIONS

16.1 Engine Performance:

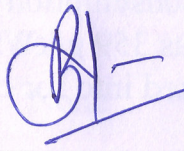
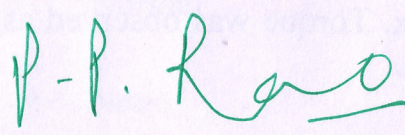
- 16.1.1** The maximum power and rated power were observed as 4.3 kW under natural ambient condition against the declared value of 4.2 kW.
- 16.1.2** Specific fuel consumption of engine corresponding to maximum power was recorded as 359 g/kWh against the declared value of 280 g/kWh. This should be looked into for corrective action.
- 16.1.3** Max. Torque was observed as 13.30 Nm against the declared value of 15 Nm.
- 16.1.4** Back up torque of engine was observed as 7.52 %, against the declared value of 10%.
- 16.2** Max. Noise at operator's ear level was observed as 89 dB (A).
- 16.3** 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 370 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.
- 16.4** The hardness of rotary blades conform to the requirement of IS 6690:1981 (Reaffirmed 2012).
- 16.5** All the constituents except carbon 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.
- 16.6** Labeling plate provided should be as per the requirement of IS.

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16.7 Technical literature:

The Owner's, Operation and 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	

17. APPLICANT'S COMMENTS

"No specific comment was received from the applicant".