

THIS REPORT IS VALID UPTO 31.08.2028



VIJAY KRUSHI AVAJARE, VKA-170FG POWER WEEDER



सत्यमेव जयते

भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि एवं किसान कल्याण विभाग

Department of Agriculture 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]

Website: <http://srfmtti.dacnet.nic.in/>

Machine- 517/1545	VKA-170FG POWER WEEDER	COMMERCIAL
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Manufacturer : M/s. Zhejiang Fuchai Power Machine
Manufacture Co. Ltd., No.8, Jiangjia Yan Road
East City of Tongliang Country, Chongqing,
China

Applicant : M/s. Vijay Krushi Avajare, H.No. 1993,
Gat No.721, Jay Sangali Naka to Takawade
Road, Takawade-416121, Tal.Shirol,
Dist. Kolhapur, Maharashtra, India

VIJAY KRUSHI AVAJARE, VKA-170FG POWER WEEDER

Report No. : **Machine-517/1545**

Month: **September**

Year: **2023**



Government of India
Ministry of Agriculture and Farmers Welfare
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Telephone: 08551-286441

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in

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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

17.1.1 The maximum power and rated power were observed as 3.83 kW, under natural ambient condition against the declared value of 3.8 kW.

17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 397 g/kWh against the declared value of 330 g/kWh.

17.1.3 Max. Torque was observed as 11.48 Nm against the declared value of 14 Nm.

17.1.4 Back up torque of engine was observed as 6.49 %, against the declared value of 10%.

17.2 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 377 microns, which is on higher side. Therefore corrective action to reduce the vibration should be taken up.

17.3 The hardness of rotary blades do not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

17.4 Chemical composition of Silicon of rotary blade is not as per the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

17.5 The labeling plate does not reveal all the required information. it is therefore recommended that a suitable labeling plate covering all essential components, inter alia , the following may be provided:

1. Make
2. Year of manufacturer
3. Max. Power (kW)
4. Specific fuel consumption (g/kWh)

17.6 Technical literature:

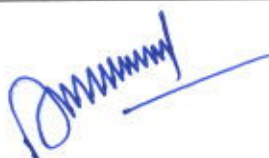


Operators manual and parts catalogue of power weeder were supplied with test sample for reference during the test. It is however, recommended that same may be revised and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2019) for the sake of user & technical personnel in booklet form.

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18. APPLICANT'S COMMENTS

We have gone through all your comments and we will inform our manufacturing facility about your comments and recommendations.

TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. D.C. MOULI AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	

