

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT

(INITIAL)

TEST REPORT IS VALID UPTO 28/02/2028

संख्याNo: Machine-479/1482

माहMonth: March, 2023

Validity: 28.02.2028



POWER WEEDER VENUS VIS 95 DR



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.)

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Machine- 479/1482	POWER WEEDER VENUS VIS 95 DR	COMMERCIAL (ICT)
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Manufacturer(apa) : M/s.Venus Industries, survey No. 762/1,
vazhuthalampedu Road, Kundrathur-
600 069, Sriperambudur Taluk,
Tamil Nadu, **INDIA**

Applicant : M/s.Venus Industries, survey No. 762/1,
vazhuthalampedu Road, Kundrathur-
600 069, Sriperambudur Taluk,
Tamil Nadu, **INDIA**

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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

17.1.1 The maximum power and rated power were observed as 3.7 kW under natural ambient condition against the declared value of 3.0kW.

17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 259 g/kWh against the declared value of 320g/kWh.



17.1.3 Max. Torque was observed as 11.25 Nm against the declared value of 10 % Nm.

17.1.4 Back up torque of engine was observed as 9.11%, against the declared value of 10%. This should be looked into for corrective action.

17.2 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 421* microns, which is on higher side. Therefore corrective action to reduce the vibration should be taken.

17.3 The hardness of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2017). This should be looked into for corrective action.

TESTING AUTHORITY

D.C.MOULI AGRICULTURAL ENGINEER	
P.KAMALABAI SENIOR AGRICULTURAL ENGINEER DIRECTOR/(I/C)	

18. Applicants Comments

S. No	Para No	Applicant comments
1	17.1.4	This will corrective action in future production
2	17.3	We will provide any type of provision for reducing the mechanical vibration
3	17.4	We will take necessary action to increase the hardness of blades