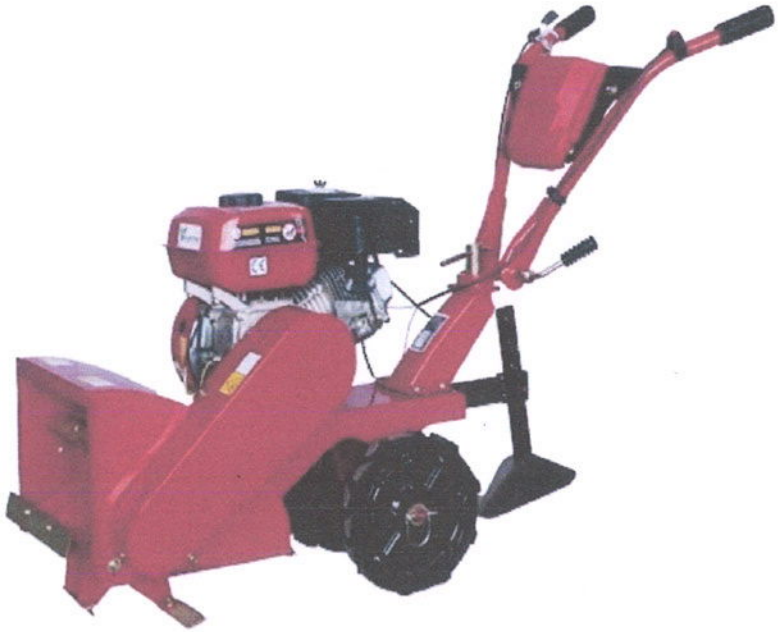
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: ICE/SRFMTTI, ANANTAPUR/2025-26/19/19/1889

माह/Month: June, 2025

THIS TEST REPORT IS VALID UP TO 31.05.2032



VASAANTHAM, YIELD MAX VT-260 POWER WEEDER

सत्यमेव जयते

भारत सरकार

Government of India

कृषिएवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषिएवं 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/ E-mail: fmti-sr@nic.in

Manufacturer, (apa) : M/s. Chongqing Hongmei Technology Co. Ltd., No. 52, Building No. 1, Xinyi Village, Yudong Street, Banan District, Chongqing, China-401320.

Applicant : M/s. Vasaantham Traders,
S. No. 129/IA2, Vandiyur Ring Road, Sangu Nagar, Madurai, Tamil Nadu, India- 625020

VASAANTHAM, YIELD MAX VT-260 POWER WEEDER

Report No.: **ICE/SRFMTTI, ANANTAPUR/2025-26/19/19/1889**
Month: **June**
Year: **2025**

सत्यमेव जयते

Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
Southern Region Farm Machinery Training and Testing Institute
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)
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Website: http://srfmtti.dacnet.nic.in/ E-mail: fmti-sr@nic.in

Type of test : INITIAL COMMERCIAL TEST (ICT)

Period of test : June, 2025

Test Report No. : **ICE/SRFMTTI, ANANTAPUR/2025-26/19/19/1889**

Month / Year of release : June, 2025

i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.

ii) The data given in this report pertain to the particular machine randomly selected by testing authority through virtual mode.

iii) The results presented in this report do not, in anyway, attribute to the durability of the machine.

iv) This Test Report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training & Testing Institute, Garladinne, Anantapur (A.P.).

v) This is a report on Commercial Test of Power Weeder named **"VASAANTHAM, YIELD MAX VT-260 POWER WEEDER".** This report is valid up to **31.05.2032, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.**

SELECTED CONVERSIONS

Sl. No.	Units	Conversion Factor
1	**Force**	
	1 kgf	9.80665 N
		2.20462 lbf
2	**Power**	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	**Pressure**	
	1 psi	6.895 kPa
	1 kgf/cm^2	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm^2
	1 mm of Hg	1.3332 m-bar

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

18.1.1 The maximum power was observed as 3.82 kW under natural ambient condition against the declared value of 3.80 kW.

18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 411 g/kWh against the declared value of 420 g/kWh.

18.1.3 Back up torque of engine was observed as 7.73 % against declared value of 10 %.

18.1.4 Max. torque was observed as 10.73 Nm against the declared value of 12 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 352 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Chemical Analysis of Rotary Blade

Chemical analysis of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

18.4 Technical literature:

User's manual is provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

The following literature should be provided.

i) Service manual

ii) Parts catalogue

TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
Dr. P.P. RAO **DIRECTOR**	

19. APPLICANT'S COMMENTS

Reference No.	Applicant's comments
18.1.1	We will correct it to make up the declared value in future supplies.
18.1.2	We will correct it to make up the declared value in future supplies.
18.1.3	We will correct it to make up the declared value in future supplies.
18.1.4	We will correct it to make up the declared value in future supplies.
18.2	We will take corrective action to dampen the vibration in future production.
18.3	We will upgrade the blade material so that hardness of the rotary blades are as per requirements IS 6690-1981 (Reaffirmed 2022) in our future supplies.
18.4	The user manual will hence forth be updated in Hindi & other regional languages as per requirements IS 8132-1999 (Reaffirmed 2004), the service manual & parts catalogue also will be provided.