

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)  
COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: Machine-684/1767

माह/Month: December, 2024

THIS TEST REPORT IS VALID UP TO 30.11.2031



**VELMOC AGRO, VGCH-1 BRUSH CUTTER**



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.)

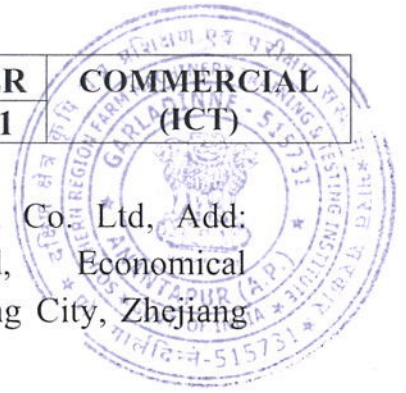
**Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)**

**[An ISO 9001:2015 CERTIFIED INSTITUTE]**

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

E-mail: [fmti-sr@nic.in](mailto:fmti-sr@nic.in)

Machine- 684/1767	VELMOC AGRO, VGCH-1 BRUSH CUTTER	COMMERCIAL (ICT)
	THIS REPORT IS VALID UP TO 30.11.2031	



Manufacturer, (apa) : M/s. Zhejiang Gezhi Tech Co. Ltd, Add:  
No.878, Chengxin Rd, Economical  
Development Zone Yongkang City, Zhejiang  
Province, **China**.

Name of Applicant : M/s. Macan Agromart Private Limited  
Shambu Kalan Adjoining Woodland  
Warehouse, Gian Jyothi College Road, Banur  
Ambala Highway, Tepla, Patiala, Punjab-  
140417.

### VELMOC AGRO, VGCH-1 BRUSH CUTTER

Report No.: Machine-684/1767

Month: **December**

Year: **2024**

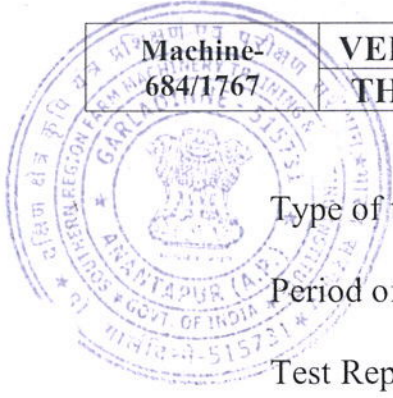


सत्यमेव जयते

**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
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**Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)**  
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Machine- 684/1767	<b>VELMOC AGRO, VGCH-1 BRUSH CUTTER</b> <b>THIS REPORT IS VALID UP TO 30.11.2031</b>	<b>COMMERCIAL</b> <b>(ICT)</b>
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Type of test : COMMERCIAL (ICT)  
Period of test : September, 2024 to October, 2024  
Test Report No. : Machine-684/1767  
Month / Year of release : December, 2024

- 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 .
- iii) The results presented in this report do not in any way 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 Brush Cutter named “ **VELMOC AGRO, VGCH-1 BRUSH CUTTER**”. This report is valid up to **30.11.2031**, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated **12.12.2023**.

### SELECTED CONVERSIONS

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

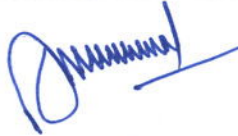




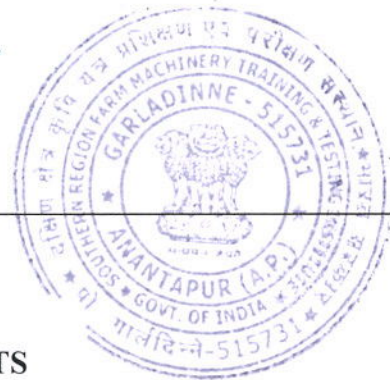
Machine- 684/1767	VELMOC AGRO, VGCH-1 BRUSH CUTTER	COMMERCIAL (ICT)
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### 17. COMMENTS & RECOMMENDATIONS

- 17.1 The maximum power was observed as 1.03 kW under natural ambient condition against the declared value of 1.0 kW.
- 17.2 The safety provisions, as mentioned at **Para 5.14**, have been provided by the applicant for safety aspect of operators.
- 17.3 Max. Noise at operator's ear level was observed as 94 dB (A), which is on higher side, therefore suitable corrective action should be taken to reduce the noise level.
- 17.4 The equivalent mechanical vibration on engine cover was observed to the extent of 142 micron. This should be looked into for dampening the vibration.
- 17.5 The chemical composition of Circular Disc blade is not as per requirement of the relevant code IS 6690:1981 (Reaffirmed 2012) & therefore it should be looked into for the corrective action.
- 17.6 A fuel on/off knob may be considered for providing in the fuel system of engine.
- 17.7 **Adequacy of literature supplied with the machine:**  
The Operator's manual cum parts catalogue of brush cutter and engine in English was supplied with the brush cutter for reference during the test. It is however, recommended that same may be revised and brought out as per IS: 8132- 1999 (Reaffirmed 2004) for the sake of user & technical personnel.

### TESTING AUTHORITY

 <b>Er. PRAMOD YADAV</b> AGRICULTURAL ENGINEER	 <b>Er. VIJAY KUMAR BADAYA</b> SENIOR AGRICULTURAL ENGINEER
 <b>Dr. B.M. NANDEDE</b> DIRECTOR	



### 18. APPLICANT COMMENTS

-NIL-