

THIS TEST REPORT IS VALID UP TO 31.05.2031



FARMERS WING, FW-700P 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

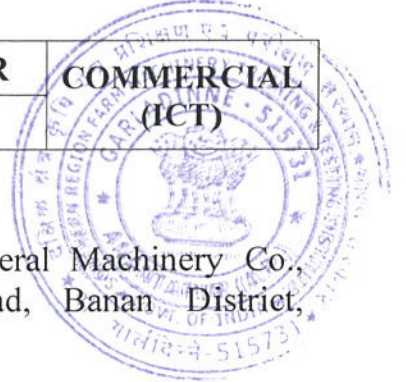
ट्रैक्टर नगर, गार्लदिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

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

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

Machine - 578/1633	FARMERS WING, FW-700P POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Chongqing Diligence General Machinery Co., Ltd. No. 1, Kangachao Road, Banan District, Chongqing, P.R.China-400054.

Applicant : M/S. Sri Venkateshwara Enterprises, Kadikal Post Office, Ground Floor 01, SVE Agri Towers, Unnamed Road, Mathuru, Shivamogga, Karnataka-577203.

**FARMERS WING, FW-700P POWER WEEDER**

Report no.: Machine -578/1633

Month: June

Year: 2024



**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
**Department of Agriculture and Farmers Welfare**  
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Machine - 578/1633	FARMERS WING, FW-700P POWER WEEDER	COMMERCIAL (ICT)
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Type of test : COMMERCIAL (ICT)  
 Period of test : March, 2024 to May, 2024.  
 Test Report No. : Machine -578/1633  
 Month / Year of release : June, 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 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 "FARMERS WING, FW-700P POWER WEEDER. ". This report is valid up to 31.05.2031, 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



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### 18. COMMENTS & RECOMMENDATIONS

#### 18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 5.3 kW under natural ambient condition against the declared value of 5.2 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 425 g/kWh against the declared value of 374 g/kWh.
- 18.1.3 Back up torque of engine was observed as 10 % against declared value of 10 %.
- 18.1.4 Max. torque was observed as 15.40 Nm against the declared value of 15.8 Nm.

#### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 356 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

- 18.3 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 must be provided:

- i) Country of origin
- ii) Engine no.
- iii) Specific fuel consumption (g/kWh).

#### 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



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**TESTING AUTHORITY**

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. P. KAMALABAI SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	

**19. APPLICANTS COMMENTS**

We consider your comments & recommendations seriously & with immediate effect we inform our production & marketing team to take corrective actions before dispatch.