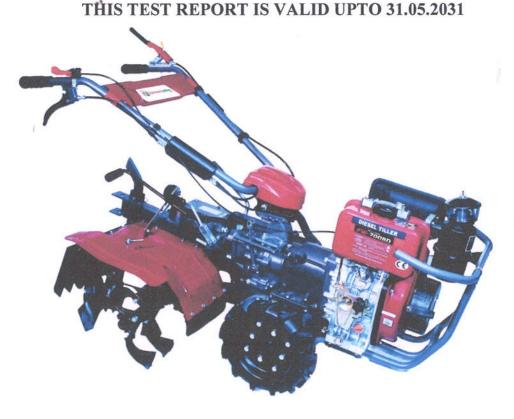
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: Machine-579/1634

माह/Month: June, 2024



FARMER WING, FW-700BD POWER WEEDER



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 Tele.: 08551-286441

FARMER WING, FW-700BD POWER WEEDER

COMMERCIAL (ICT)

THIS TEST REPORT IS VALID UP TO 31.05.2031

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, Kadekal

Post Office, Ground Floor 01, SVE Agri Towers,

Unnamed Road, Mathuru, Shir

Shivamogga,

Karnataka-577203.

FARMER WING, FW-700BD POWER WEEDER

Report no.: Machine-579/1634

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Government of India

Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
Southern Region Farm Machinery Training and Testing Institute
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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)

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FARMER WING, FW-700BD POWER WEEDER

COMMERCIAL (ICT)

THIS TEST REPORT IS VALID UP TO 31.05.2031

Type of test

: COMMERCIAL (ICT)

Period of test

: February, 2024 to May, 2024

Test Report No.

: Machine-579/1634

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 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 Power Weeder named "FARMER WING, FW-700BD 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	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	$100 \text{ kPa} = 10 \text{ N/cm}^2$
	1 mm of Hg	1.3332 m-bar

SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)

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FARMER WING, FW-700BD POWER WEEDER

COMMERCIAL (ICT)

THIS TEST REPORT IS VALID UP TO 31.05.2031

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 4.56 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 412 g/kWh against the declared value of 300 g/kWh.
- 18.1.3 Back up torque of engine was observed as 5.77 % against declared value of 10 %.
- 18.1.4 Max. torque was observed as 12.84 Nm against the declared value of 15 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 494 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) Address of manufacturer
 - ii) Country of origin
 - iii) Engine no.
 - iv) Rated rpm
 - v) Specific fuel consumption (g/kWh)

18.4 Technical literature:

User's manual cum parts catalogue provided but not in booklet form for reference during the test. It is recommended that same must be revised in booklet form and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel in booklet form.

FARMER WING, FW-700BD POWER WEEDER

THIS TEST REPORT IS VALID UP TO 31.05.2031

COMMERCIAL (ICT)

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.