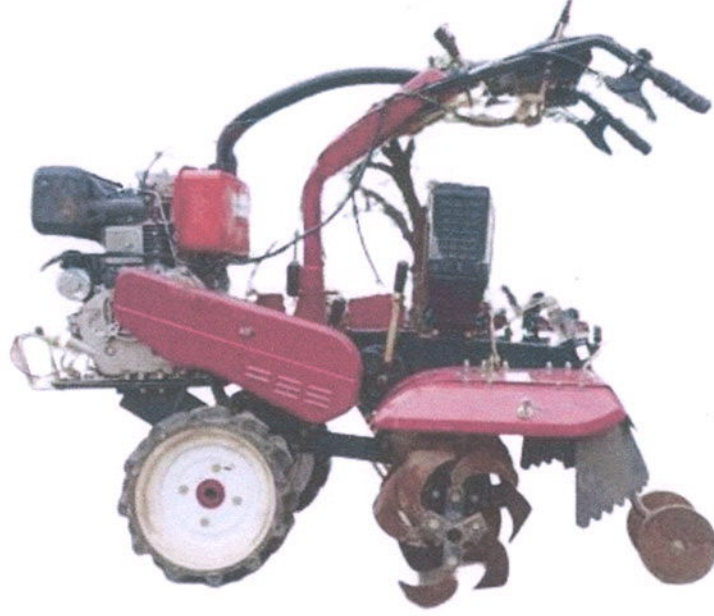


THIS TEST REPORT IS VALID UP TO 30.06.2031



FORTUNE AGRO, FAI-540D 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.)

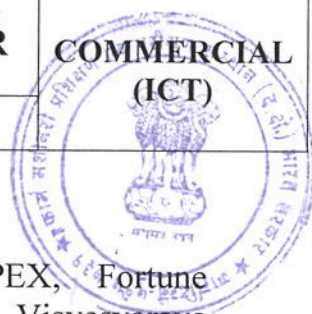
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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

E-mail: fmti-sr@nic.in

Tele.: 08551-286441

Machine- 616/1673	FORTUNE AGRO, FAI-540D POWER WEEDER	
	THIS TEST REPORT IS VALID UPTO 30.06.2031	

Manufacturer : M/s. FORTUNE AGRO IMPEX, Fortune House, #343, 9th block, Sir M. Visvesvaraya layout, Kengunte 1st Main road, Bangalore-560056, Karnataka.

Applicant : The manufacturer

FORTUNE AGRO, FAI-540D POWER WEEDER

Report no.: **Machine-616/1673**

Month: **July**

Year: **2024**



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.)
[An ISO 9001:2015 CERTIFIED INSTITUTE]

Telephone: 08551-286441

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

E-mail: fmti-sr@nic.in



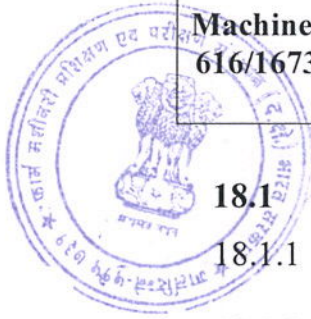
Machine- 616/1673	FORTUNE AGRO, FAI-540D POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 30.06.2031	

Type of test : COMMERCIAL (ICT)
Period of test : March, 2024 to May, 2024
Test Report No. : **Machine-616/1673**
Month / Year of release : July, 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 for test by the testing authority by 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 "**FORTUNE AGRO, FAI-540D POWER WEEDER**". This report is valid up to **30.06.2031**, 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



Machine- 616/1673	FORTUNE AGRO, FAI-540D POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 30.06.2031	

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 6.27 kW under natural ambient condition against the declared value of 5.9 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 309 g/kWh against the declared value of 304 g/kWh.
- 18.1.3 Back up torque of engine was observed as 5.6 % against declared value of 7 %.
- 18.1.4 Max. torque was observed as 15.0 Nm against the declared value of 18.0 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the weeder was observed to the extent of 690 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Marking /labeling:

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

18.4 Technical literature:

Owner's manual, service manual and parts catalogue provided in booklet form in English for reference during the test. It is recommended that same must be revised in 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.

Machine- 616/1673	FORTUNE AGRO, FAI-540D POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 30.06.2031	

TESTING AUTHORITY

<p align="center">Er. PRAMOD YADAV AGRICULTURAL ENGINEER</p>	
<p align="center">Dr. B.M. NANDEDE DIRECTOR</p>	 

19. APPLICANT COMMENTS

Your comments and recommendations will be taken care