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

संख्या/No: Machine-617/1674

माह/Month: July, 2024

## THISTEST REPORT IS VALID UP TO 30.06.2031



### FORTUNEAGRO, FAI-940D POWER WEEDER



#### 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 9001:2015CERTIFIEDINSTITUTE]

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

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Tele.: 08551-286441

### FORTUNEAGRO, FAI-940D POWER WEEDER

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COMMERCIAL (ICT)

Manufacturer, (apa)

: M/s. FORTUNE AGRO IMPEX, Fortune House,

#343, 9th block, Sir M. Visvesvaraya layout,

Kengunte 1st Main road, Bangalore-560056,

Karnataka.

Applicant

: The manufacturer

### FORTUNEAGRO, FAI-940D POWER WEEDER

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### Government of India

Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)

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## FORTUNEAGRO, FAI-940D POWER WEEDER

THIS TEST REPORT IS VALID UP TO 30.06.2031

COMMERCIAL (ICT)

Type of test

: COMMERCIAL (ICT)

Period of test

: March, 2024 to June, 2024

Test Report No.

Machine-617/1674

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 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 "FORTUNEAGRO, FAI-940D 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

S. No.	Units	<b>Conversion Factor</b>
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 <sup>2</sup>	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

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### FORTUNEAGRO, FAI-940D POWER WEEDER

COMMERCIAL (ICT)

THIS TEST REPORT IS VALID UP TO 30.06.2031

#### 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 6.62 kW under natural ambient condition against the declared value of 6.7 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 242 g/kWh against the declared value of 374 g/kWh.
- 18.1.3 Back up torque of engine was observed as 6.69 % against declared value of 10 %.
- 18.1.4 Max. torque was observed as 21.01 Nm against the declared value of 22.0 Nm.

#### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 619 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 The hardness 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 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, interlaid, the following must be provided:

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

#### 18.5 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.

# FORTUNEAGRO, FAI-940D POWER WEEDER

THIS TEST REPORT IS VALID UP TO 30.06.2031

COMMERCIAL (ICT)

# TESTING AUTHORITY

Er. PRAMOD YADAV
AGRICULTURAL ENGINEER

Dr. B.M. NANDEDE
DIRECTOR

#### 19. APPLICANT COMMENTS

Your comments and recommendations will be taken care