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

संख्या/No: Machine-574/1629.

माह/Month: May, 2024

#### THIS TEST REPORT IS VALID UPTO 30.04.2031



## CHAKRADHAR CHEMICALS PVT. LTD, NANDI ICE 406D 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: अनंतप्र (आं. प्र.)

Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)
[An ISO 9001:2015 CERTIFIED INSTITUTE]

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E-mail: fmti-sr@nic.in Tele.: 08551-286441

Machine-574/1629

# CHAKRADHAR CHEMICALS PVT. LTD, NANDI ICE 406D POWER WEEDER

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COMMERCIAL (ICT)

Road.

Manufacturer, (apa)

: M/S. Chakradhar Chemicals Pvt. Ltd. 10 hab means

Office: E 3-5. UPSIDC, Begrajpur Industrial

Area, Uttar Pradesh 251203.

**Branch:** #53,2<sup>nd</sup> Floor, Infantry

Bangalore-560001, Karnataka.

Applicant

: M/S. Sampoorti Farmtec Pvt. Ltd. A-903, Mayflower Block Brigade Millennium, 7<sup>th</sup> Phase

J.P Nagar, Banglore-560078.

### CHAKRADHAR CHEMICALS PVT. LTD, NANDI ICE 406D POWER WEEDER

Report no.: Machine-574/1629

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Year: 2024



#### 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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Machine-574/1629

# CHAKRADHAR CHEMICALS PVT. LTD, NANDI ICE 406D POWER WEEDER

THIS TEST REPORT IS VALID UP TO 30.04.2031

COMMERCIAL (ICT)

Type of test

: Commercial (ICT)

Period of test

: April, 2024 to May, 2024

Test Report No.

Machine-574/1629

Month / Year of release:

May, 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 "CHAKRADHAR CHEMICALS PVT. LTD., NANDI ICE 406D POWER WEEDER". This report is valid up to 30.04.2031, 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 <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

Machine-574/1629

# CHAKRADHAR CHEMICALS PVT. LTD, NANDI ICE 406D POWER WEEDER

THIS TEST REPORT IS VALID UP TO 30.04.2031

COMMERCIAL (ICT)

#### ... 18. COMMENTS & RECOMMENDATIONS

- 18.1 Engine Performance:
- 18.1.1 The maximum power was observed as 7.42 kW under natural ambient condition against the declared value of 7.20 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 462 g/kWh against the declared value of 310 g/kWh.
- 18.1.3 Back up torque of engine was observed as 8.31 % against declared value of 10%.
- 18.1.4 Max. torque was observed as 21.24 Nm against the declared value of 18.00 Nm.
- 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the weeder was observed to the extent of 362 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) 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.

TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	amming
Dr. B.M. NANDEDE	किता । विशेषक शहराण ।
DIRECTOR	विशेषक शहराण

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