

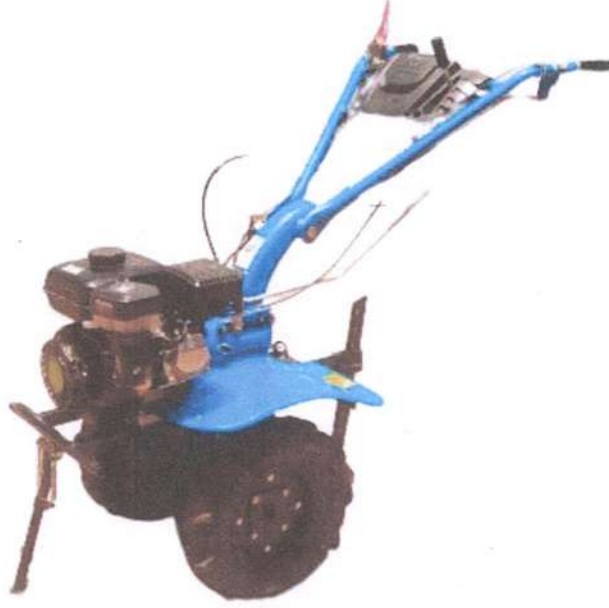
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

संख्या/No: Machine-566/1617

COMMERCIAL TEST REPORT (INITIAL)

माह/Month: May, 2024

THIS TEST REPORT IS VALID UP TO 30.04.2031



**CHAKRADHAR CHEMICALS PVT. LTD,  
SAARTHI ICM 200P (SGB24) 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

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

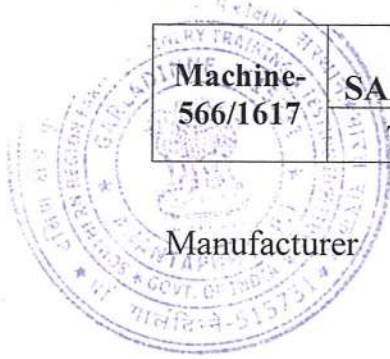
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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

E-mail: [fmti-sr@nic.in](mailto:fmti-sr@nic.in)

Tele.: 08551-286441



Machine-  
566/1617

**CHAKRADHAR CHEMICALS PVT. LTD,  
SAARTHI ICM 200P (SGB24) POWER WEEDER**

**COMMERCIAL  
(ICT)**

**THIS TEST REPORT IS VALID UP TO 30.04.2031**

Manufacturer

: M/S. Chakradhar Chemicals Pvt. Ltd,  
**Office:** E 3-5. UPSIDC, Begrajpur Industrial Area,  
Uttar Pradesh 251203.  
**Branch:** #53, 2<sup>nd</sup> Floor, Infantry Road, Bangalore-  
560001, Karnataka.

Applicant

: M/S. Sampoorti Farmtec Pvt. Ltd.  
A-903, Mayflower Block Brigade Millennium,  
7<sup>th</sup> Phase J.P Nagar, Bangalore-560078.

**CHAKRADHAR CHEMICALS PVT. LTD,  
SAARTHI ICM 200P (SGB24) POWER WEEDER**

Report no.: Machine-566/1617

Month: May

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**

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

**[An ISO 9001:2015 CERTIFIED INSTITUTE]**

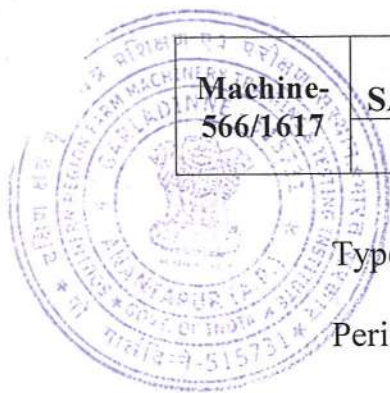
Telephone: 08551-286441

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

E-mail: [fmti-sr@nic.in](mailto:fmti-sr@nic.in)

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

**Page 2 of 33**



Machine-  
566/1617

**CHAKRADHAR CHEMICALS PVT. LTD,  
SAARTHI ICM 200P (SGB24) POWER WEEDER**

**COMMERCIAL  
(ICT)**

**THIS TEST REPORT IS VALID UP TO 30.04.2031**

Type of test : COMMERCIAL (ICT)

Period of test : March, 2024 to May, 2024

Test Report No. : **Machine-566/1617**

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, SAARTHI ICM 200P (SGB24) 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	<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

Machine- 566/1617	CHAKRADHAR CHEMICALS PVT. LTD, SAARTHI ICM 200P (SGB24) POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 30.04.2031	

**18. COMMENTS & RECOMMENDATIONS**

**18.1 Engine Performance:**

- 18.1.1 The maximum power was observed as 3.40 kW under natural ambient condition against the declared value of 3.40 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 421 g/kWh against the declared value of 350 g/kWh.
- 18.1.3 Back up torque of engine was observed as 7.22 % against declared value of 10%.
- 18.1.4 Max. torque was observed as 10.55 Nm against the declared value of 12.5 Nm.

**18.2 Mechanical vibration:**

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 572 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) SFC




**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

**TESTING AUTHORITY**

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	
Dr. B.M. NANDEDE DIRECTOR	 

**19. APPLICANT'S COMMENTS**

-Nil-