

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

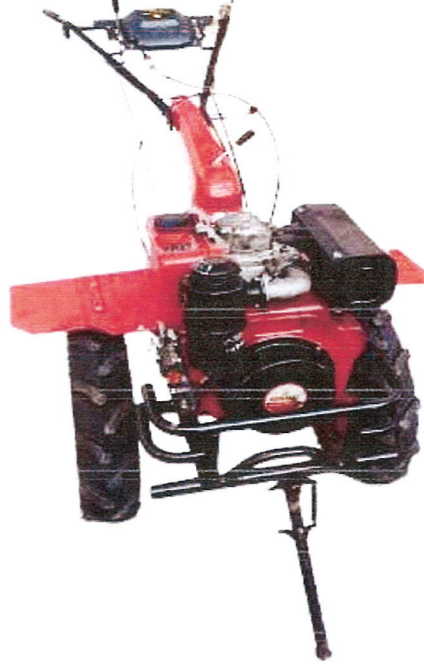
COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: ICE/SRFMTTI,

ANANTAPUR/2025-26/28/28/1919

माह/Month: September, 2025

THIS TESTREPORT IS VALID UPTO 31.08.2032



**SUN-MAX, SMRT9000D 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

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

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

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ICE/SRFMTTI, ANANTAPUR/2025-26/ 28/28/1919	SUN-MAX, SMRT 9000D POWER WEEDER THIS TEST REPORT IS VALID UP TO 31.08.2032	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Chongqing Weima Agricultural Machinery Co. Ltd., Area B, Luohuang Industry Zone, Jiangjin District, Chongqing, **China**.

Applicant : Suntec Agri Equipments India Pvt Ltd#1/1G, Ground floor, 7th cross, Pipeline road, New Guddadahalli Mysore Road, Bangalore Pin Code – 560026.

### SUN-MAX, SMRT 9000D POWER WEEDER

Report no.: ICE/SRFMTTI, ANANTAPUR/2025-26/28/28/1919

Month: September

Year: 2025

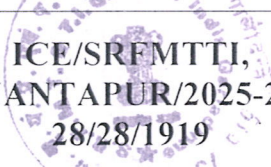


सत्यमेव जयते

**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.)**  
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 <b>ICE/SRFMTTI,</b> <b>ANANTAPUR/2025-26/</b> <b>28/28/1919</b>	<b>SUN-MAX, SMRT 9000D</b> <b>POWER WEEDER</b>	<b>COMMERCIAL</b> <b>(ICT)</b>
	<b>THIS TEST REPORT IS VALID UP TO</b> <b>31.08.2032</b>	

Type of test : COMMERCIAL (ICT)

Period of test : July, 2025 to August, 2025

Test Report No. : **ICE/SRFMTTI, ANANTAPUR/2025-26/28/28/1919**

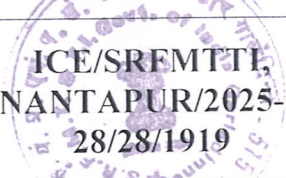
Month / Year of release : September, 2025

- 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 "**SUN-MAX, SMRT 9000D POWER WEEDER**". This report is valid up to **31.08.2032, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.**

#### SELECTED CONVERSIONS

S. No.	Units	Conversion Factor
<b>1</b>	<b>Force</b>	
	1 kgf	9.80665 N
		2.20462 lbf
<b>2</b>	<b>Power</b>	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
<b>3</b>	<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



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## 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 6.66 kW under natural ambient condition against the declared value of 6.70 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 293 g/kWh against the declared value of 280 g/kWh.
- 18.1.3 Back up torque of engine was observed as 3.29% against declared value of 10.0%.
- 18.1.4 Max. torque was observed as 18.20 Nm against the declared value of 16.8 Nm.

### 18.2 Noise measurement:

Maximum Noise at operator's ear level was observed as 96 dB (A), which is higher as per ILO. Therefore, corrective action to reduce the noise should be taken up

### 18.3 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 328 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

### 18.4 Hardness & Chemical analysis:

The hardness and chemical analysis of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022) does not conforms. This should be looked into corrective action.

### 18.5 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) Address of manufacturer
- ii) Country of origin
- iii) Size of the machine
- iv) Rated rpm
- v) Specific fuel consumption, (g/kWh)

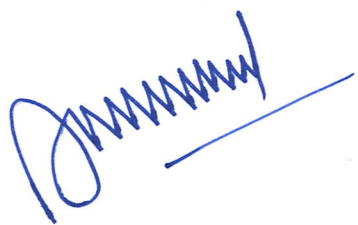



### 18.6 Technical literature:

User's manual is not 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

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### TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
  Dr. P.P. RAO DIRECTOR	

### 19. APPLICANT COMMENTS

Sl. No.	Reference	Comments
1	18.1 to 18.4	We will inform the manufacturer to take the necessary action.
2	18.5	We will mention all the details in the labelling plate as recommended.
3	18.6	We will Arrange for the technical literatures in Hindi & other required local languages.