

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No.: ICE/SRFMTTI,
ANANTAPUR/2025-26/20/20/1892

माह/Month: July, 2025

THIS TEST REPORT IS VALID UP TO 30.06.2032



SWASTIK FARM KRAFTS, SFK 208 CC 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.)

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ICE/SRFMTTI, ANANTAPUR/2025-26/ 20/20/1892	SWASTIK FARM KRAFTS, SFK 208 CC POWER WEEDER THIS TEST REPORT IS VALID UP TO 30.06.2032	COMMERCIAL (ICT) General
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Manufacturer, (apa) : M/s. Chongqing Deligence Machinery Co. Ltd., **China.**

Applicant : M/s. Swastik Farm Krafts
27 M Ramaiah Industrial Area, Heroh Alli
Cross Magadi Road Bangalore, Karnataka
Pin 560091.

SWASTIK FARM KRAFTS, SFK 208 CC POWER WEEDER
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Month: **July**
Year: **2025**



सत्यमेव जयते

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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR (A.P.)	Page 2 of 31
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ICE/SRFMTTI,
ANANTAPUR/2025-26/
20/20/1892

SWASTIK FARM KRAFTS, SFK 208 CC
POWER WEEDER
THIS TEST REPORT IS VALID UP TO
30.06.2032

COMMERCIAL
(ICT)

Type of test : COMMERCIAL (ICT)

Period of test : April, 2025 to May, 2025

Test Report No. : ICE/SRFMTTI, ANANTAPUR/2025-26/20/20/1892

Month / Year of release : July, 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 through 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 "SWASTIK FARM KRAFTS, SFK 208 CC POWER WEEDER". This report is valid up to 30.06.2032, 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



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18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The rated power and maximum power were observed as 4.18 kW under natural ambient condition against the declared value of 4.0 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 389 g/kWh against the declared value of 380 g/kWh.
- 18.1.3 Back up torque of engine was observed as 7.69 % against declared value of 10 %.
- 18.1.4 Max. torque was observed as 11.90 Nm against the declared value of 11 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 290 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Hardness and Chemical analysis:

The Hardness and Chemical analysis 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:

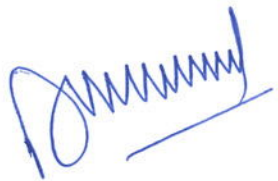


- i) Name & address of the Manufacturer
- ii) Name & address of the Applicant
- iii) Country of origin
- iv) Engine Hp
- v) Specific fuel consumption (g/kWh)

18.5 Technical literature:

Operator's manual, service manual and parts catalogue of power weeder in separate booklet were supplied for reference during the test. It is however, recommended that same may be revised in Hindi and other regional languages as per IS 8132: 1999 (Reaffirmed 2004) for the sake of user & technical personnels.

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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'S COMMENTS

Sl. No.	Para No.	Comments
1	18.1.1	We will forward the comment to the engine manufacturer and will ask them to take corrective measures.
2	18.1.2	We will take corrective actions as per the recommendation of institute in future production.
3	18.1.3 & 18.1.4	We will forward the comment to the engine manufacturer and will ask them to take corrective measures.
4	18.2	We will take action as per recommendation of institute.
5	18.3	We will take action as per recommendation of institute.
6	18.4	We will take action as per recommendation of institute.
7	18.5	We will take action as per recommendation of institute.