

व्यावसायिकपरीक्षणरिपोर्ट(प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No:ICE/SRFMTTI,

ANANTAPUR/2025-26/27/27/1914

माह/Month: August, 2025

THIS TEST REPORT IS VALID UP TO 31.07.2032



SHRACHI, 7P3 SUPREME 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/ 27/27/1914	SHRACHI, 7P3 SUPREME POWER WEEDER THIS TEST REPORT IS VALID UP TO 31.07.2032	COMMERCIAL (ICT)
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Manufacturer, (apa) : Shrachi Agrimech Limited
Shrachi tower, 686, Anandapur EM By-Pass
RB Connector, Kolkata, West Bengal-
700107, India.

Applicant : The Manufacturer

SHRACHI, 7P3 SUPREME POWER WEEDER

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सत्यमेव जयते

Government of India

Ministry of Agriculture and Farmers Welfare

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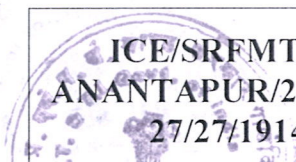
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Type of test : COMMERCIAL (ICT)

Period of test : July, 2025 to August, 2025


Test Report No. : **ICE/SRFMTTI, ANANTAPUR/2025-26/27/27/1914**

Month / Year of release : August, 2025

- The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- The data given in this report pertain to the particular machine randomly selected by testing authority through virtual mode.
- The results presented in this report do not, in anyway, attribute to the durability of the machine.
- 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.).
- This is a report on Commercial Test of Power Weeder named **“SHRACHI, 7P3 SUPREME POWER WEEDER”**. This report is valid up to **31.07.2032**, 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 5.37 kW under natural ambient condition against the declared value of 5.2 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 378 g/kWh against the declared value of 350 g/kWh.
- 18.1.3 Back up torque of engine was observed as 8.32 % against declared value of 10%.
- 18.1.4 Max. torque was observed as 15.23 Nm against the declared value of 15 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 273 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:


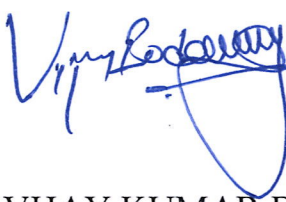


The Hardness and Chemical analysis of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

18.4 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. PR AMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
  Dr. P.P.RAO DIRECTOR	

19. APPLICANT COMMENTS

Reference No.	Applicant Comments
18.2	We will take corrective action to Reduce Mechanical vibration in future production.
18.3	We will take corrective action to meet the requirement of blades as per IS 6690:1981 (Reaffirmed 2022) in future production.
18.4	We will be brought out the literature as per IS 8132:1999 (Reaffirmed 2004).