

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: ICE/SRFMTTI,  
ANANTAPUR/2025-26/11/11/1871  
माह/Month: May, 2025

**THIS TEST REPORT IS VALID UP TO 30.04.2032**



**KIRLOSKAR OIL ENGINES LTD., MIN T8P 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.)**

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

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ICE/SRFMTTI, ANANTAPUR/2025-26/ 11/11/1871	KIRLOSKAR OIL ENGINES LTD., MIN T8P POWER WEEDER THIS TEST REPORT IS VALID UP TO 30.04.2032	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Champ Energy Ventures Pvt. Ltd.,  
Plot No.-7, Gate No.-399/1/2/3/B, Village  
Bhare. Tal. - Mulshi, Dist. Pune-412115,  
Maharashtra, **India**.

Applicant : M/s. Kirloskar Oil Engines Ltd.,  
Laxmanrao Kirloskar Road, Khadki, Pune,  
Maharashtra-**India**- 411003.  
Telephone-+91(20) 66084000/ 25810341  
Fax- +91 (20) 25813208, 25810209

### KIRLOSKAR OIL ENGINES LTD., MIN T8P POWER WEEDER

Report no.: ICE/SRFMTTI, ANANTAPUR/2025-26/11/11/1871

Month: **May**

Year: **2025**



**Government of India**

**Ministry of Agriculture and Farmers Welfare**

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	THIS TEST REPORT IS VALID UP TO 30.04.2032	

Type of test : COMMERCIAL (ICT)

Period of test : April, 2025

Test Report No. : ICE/SRFMTTI, ANANTAPUR/2025-26/11/11/1871

Month / Year of release : May, 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 "KIRLOSKAR OIL ENGINES LTD., MIN T8P POWER WEEDER". This report is valid up to 30.04.2032, 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	<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





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1	2	3	4	5
27	Marking/labeling of machine	The labeling plate should be riveted on the body of the machine having name and address of manufacturer & applicant, country of origin, make, model, year of manufacturer, serial number, engine number, engine HP, rated rpm & SFC	Provided	Conforms
28	Literature	Operator manual, service manual and parts catalogue should be provided	Provided	Conforms

## 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The maximum power and rated power were observed as 5.30 kW under natural ambient condition against the declared value 5.37 & 5.20 kW respectively.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 367 g/kWh against the declared value of 400 g/kWh.
- 18.1.3 Back up torque of engine was observed as 3.34 % against declared value of 10 %.
- 18.1.4 Max. torque was observed as 14.53 Nm against the declared value of 13.50 Nm.

### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 395 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

### 18.3 Air cleaner oil pullover:

The percentage of air cleaner oil pull over was recorded as 0.24 to 0.97% respectively against the declaration of 0.25%. The percentage of air cleaner oil pull over was considered very high and this should be looked into for corrective action.

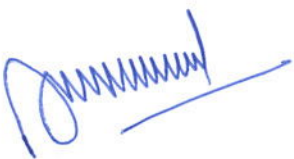


### 18.4 Technical literature:

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 personnel.

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### TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	

### 19. APPLICANT'S COMMENTS

Reference	Applicant's comments
18.2	We Will take corrective action to reduce the vibration
18.3	We will take corrective action to meet declared value.
18.4	We will provide the manuals in Hindi & other regional language as per IS standard.