

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: ICE/SRFMTTI,

ANANTAPUR/2025 -26/34/34/1933

माह/Month: October, 2025

THIS TEST REPORT IS VALID UP TO 30.09.2032



KIRLOSKAR OIL ENGINES LTD., MIN T55Pe 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.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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ICE/SRFMTTI, ANANTAPUR/2025 -26/ 34/34/1933	KIRLOSKAR OIL ENGINES LIMITED, MIN T55Pe POWER WEEDER THIS TEST REPORT IS VALID UP TO 30.09.2032	
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Manufacturer, (apa) : M/s. Chongqing Meidoing Machinery Co.,
Ltd. Add: No.2 Factory, Panlong Printing
Center, No.3, Juyuan Rd., Shuangfu St.,
Jiangjin Dist., Chongqing City, **China.**

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

KIRLOSKAR OIL ENGINES LTD., MIN T55Pe POWER WEEDER

Report no.: ICE/SRFMTTI, ANANTAPUR/2025 -26/34/34/1933

Month: **October**

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

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Type of test : COMMERCIAL (ICT)

Period of test : August, 2025 to September, 2025

Test Report No. : ICE/SRFMTTI, ANANTAPUR/2025 -26/34/34/1933

Month / Year of release : October, 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 LIMITED, MIN T55Pe POWER WEEDER"**. This report is valid up to **30.09.2032**, 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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1	2	3	4	
25	Provision for cover on exhaust	Must be provided	Provided	Conforms
26	Direction of exhaust emission away from operator	Must be provided	Provided	Conforms
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, Size of machine, serial number, engine number, engine HP, rated rpm & SFC	Name and address of manufacturer & Size of machine are not provided.	Does not conform
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 rated power and maximum power were observed as 3.94 kW under natural ambient condition against the declared value of 4.1 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 444 g/kWh against the declared value of 446 g/kWh.
- 18.1.3 Back up torque of engine was observed as 9.12 % against declared value of 2.0%.
- 18.1.4 Max. torque was observed as 11.25 Nm against the declared value of 12.11 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 442 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 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:

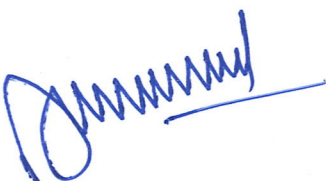
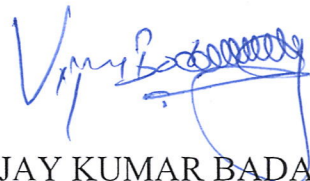

- i) Manufacturing address
- ii) Size of machine

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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.

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	18.2	We Will take corrective action to reduce the vibration.
2	18.3	We will update the serial number plate as per standards.
3	18.4	We will provide the manuals in Hindi & other regional language as per IS standard