

व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No.: PT-140/1151
माह / Month: May, 2020
Validity: 30.04.2023

VARIANT TEST



KIRLOSKAR KMW-MEGA-T 12 LW-S POWER TILLER



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि, सहकारिता एवं किसान कल्याण विभाग

Department of Agriculture, Cooperation 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.)

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PT-140/1151	KIRLOSKAR KMW-MEGA-T 12 LW-S POWER TILLER	COMMERCIAL (VARIANT)
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Manufacturer : M/s. Kirloskar Oil Engines Ltd. (KOEL),
Unit-KMW, Plot No. E-18,
Opp.- M/s. Suktas India Ltd., 5 Star
MIDC, KAGAL-Hatkanangale Industrial
Area, Kolhapur - 416 202, Maharashtra,
India.

Applicant : M/s. Kirloskar Oil Engines Ltd., (KOEL),
Laxmanrao Kirloskar Road, Khadki,
Pune - 411 003,
Maharashtra, **India.**

Indigenous/Imported : **Indigenous**

KIRLOSKAR KMW-MEGA-T 12 LW-S POWER TILLER

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3.4 SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

Evaluative (mandatory)/ Non-evaluative (non-mandatory) parameters applicable for Qualifying Minimum Performance Criteria as per **Clause – 4.1 (Table-1) of IS 13539: 2018 (Second revision)** for acceptance of the power tiller for the purpose of subsidies/institutional financing are summarized as under:

Sl. No.	Characteristics	Category (Evaluative/ Non Evaluative)	Requirements as per IS 13539: 2018 (Second revision)	Values Declared by the applicant/ requirement		As observed		Whether meets the requireme nts (Yes/No)
				Base	Variant	Base	Variant	
1	2	3	4	5		6		7
3.4.1	Rotary shaft performance:							
a)	Max. Power test, (kW)	Evaluative	Minimum 80 percent of observed maximum bhp of power tiller	7.3	7.3	7.8	7.7	Yes
b)	Power at rated engine speed,(kW)	Evaluative	Minimum 75 percent of observed rated bhp of power tiller	6.3	6.3	7.0	7.0	Yes
c)	Specific fuel consumption corresponding to power at rated engine speed,(g/kWh)	Evaluative	To be declared by the manufacturer with a tolerance of + 5 percent	310	310	251	251	Yes
d)	Max. equivalent rotary shaft torque, Nm	Evaluative	To be declared by the manufacturer with a tolerance of ± 8 percent	460	460	483.2	481.5	Yes

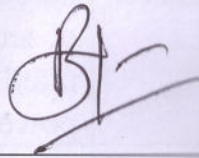

Sl. No.	Characteristics	Category (Evaluative/ Non Evaluative)	Requirements as per IS 13539: 2018 (Second revision)	Values Declared by the applicant/ requirement		As observed	
				Base	Variant	Base	Variant
1	2	3	4	5	6		
e)	Max. operating temp. of rotary transmission oil, (°C)	Evaluative	To be declared by the Manufacturer	120	120	71	60

3.4.2 Salient Observations:

3.4.2.1 As compare to base model, the following features are changed in Variant model and details are given in Annexure - I & II.

1. Gearbox
2. Tail wheel
3. Sheet metal styling

TESTING AUTHORITY:

B.N. DIXIT AGRICULTURAL ENGINEER	
Dr. P.P. RAO DIRECTOR	

4. APPLICANT'S COMMENTS

No specific comment received from the applicant.