

THIS TEST REPORT IS VALID UPTO 30.04.2033



**METRO,MEWDAVANGERE16x48 MULTI CROP THRESHER
(ENGINE OPERATED)**



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]

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in

Tele.: 08551-286441

TH-49/1626	METRO, MEW DAVANGERE 16x48 MULTI CROP THRESHER (ENGINE OPERATED)	Commercial Test (1 st Batch)
------------	---	--



Manufacturer : M/s. Metro Engineering Works, # 78/1N,
Bilal Compound, P.B. Road, Davangere,
Karnataka-577 002.

Name of Applicant : The Manufacturer

METRO, MEW DAVANGERE 16x 48 MULTI CROP THRESHER

Report No. : TH-49/1626

Month: May

Year: 2024



TESTED BY

Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
Southern Region Farm Machinery Training and Testing Institute
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)
[An ISO 9001:2015 CERTIFIED INSTITUTE]

Telephone: 08551-286441

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in



TH-49/1626

METRO, MEW DAVANGERE 16x48 MULTI CROP THRESHER (ENGINE OPERATED)

Commercial Test (1st Batch)

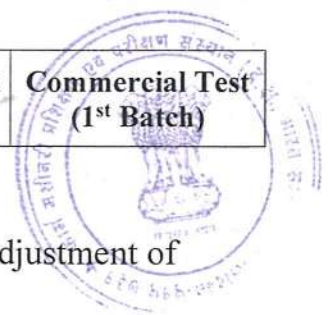
Type of test : Commercial (1st Batch)
Name of Machine : Multi Crop Thresher
Period of test : 18.03.2024 to 30.04.2024
Test Report No. : **TH-49/1626**
Month / Year : May, 2024

- 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 random selected by testing authority.
- iii) The results presented in this report do not in any way 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 the first batch test report and therefore, should be read in conjunction with the Commercial test report i.e. “**METRO, MEW DAVANGERE 16x48 MULTI CROP THRESHER (ENGINE OPERATED)**” bearing report no.**TH-24/574** released in **January, 2016**. **This report is valid up to 30.04.2033** Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

SELECTED CONVERSIONS

S. 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

TH-49/1626	METRO, MEW DAVANGERE 16x48 MULTI CROP THRESHER (ENGINE OPERATED)	Commercial Test (1 st Batch)
------------	---	--



10. EASE OF OPERATION & ADJUSTMENTS

No noticeable difficulty was observed during the operation and adjustment of Multi crop thresher.

11. DEFECTS, BREAKDOWNS AND REPAIR

No major breakdowns were occurred during 25.0 hours of field operation.

12. COMMENTS & RECOMMENDATIONS

12.1 The specification of feeding hopper does not conform to IS: 9020-2002. This should be looked into.

12.2 Adequacy of literature supplied with the machine:

Parts catalogue of Thresher and engine was provided for reference during the testing, however, the same as well as a service manual, operation manual may be brought out as per IS: 8132- 1999.

TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	
Dr. B.M. NANDEDE DIRECTOR	

13. APPLICANT'S COMMENTS

- 1) The suggestion is noticed and the company will work on the same in seriously to bring the safety requirements of the power thresher to meet the requirements of IS:9020-2002.
- 2) The suggestion is noted and will work seriously on the same to modify the hopper size, incorporate the star wheel and star wheel shaft, cylinder size and material provide as per IS:9020-2002.
- 3) The suggestions are noted and we will be brought out literature as per IS:8132-1999.