

THIS TEST REPORT IS VALID UP TO 31.10.2032



TRIMURTI ENGINEERING WORKS, TEW 5 TNE TRACTOR TRAILER



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]

	TRIMURTI ENGINEERING WORKS, TEW 5 TNE TRACTOR TRAILER THIS TEST REPORT IS VALID UPTO 31.10.2032	COMMERCIAL (ICT)
--	--	-----------------------------

Manufacturer : **Trimurti Engineering Works,**
#12, Hiwarkhed Road, Belkhed village, Telhara
Taluk, Akola Dist., Maharashtra, 444108

Applicant : The Manufacturer

TRIMURTI ENGINEERING WORKS, TEW 5 TNE TRACTOR TRAILER

Report No.: TT/SRFMTTI, ANANTAPUR/2025-26/17/17/1945

Month: November

Year: 2025



सत्यमेव जयते

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]

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

E-mail: fnti-sr@nic.in

TT/SRFMTTI, ANANTAPUR/2025-26/ 17/17/1945	TRIMURTI ENGINEERING WORKS, TEW 5 TNE TRACTOR TRAILER THIS TEST REPORT IS VALID UPTO 31.10.2032	
--	--	--

Type of test : COMMERCIAL (ICT)

Period of test : October, 2025 to November, 2025

Test Report No. : **TT/SRFMTTI, ANANTAPUR/2025-26/17/17/1945**

Month / Year of release : November, 2025

- i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii) The test sample was selected randomly through virtual mode by institute. The results presented in this report do not, in any way, attribute to the durability of the machine.
- iii) The results presented in this report do not, in any way, attribute to the durability of the machine.
- iv) This report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training and Testing Institute, Garladinne, Anantapur (A.P.).
- v) This is a report on Commercial Test of tractor trailer name "**TRIMURTI ENGINEERING WORKS, TEW 5 TNE TRACTOR TRAILER**". This report is valid up to **31.10.2032**, 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

	TRIMURTI ENGINEERING WORKS, TEW 5 TNE TRACTOR TRAILER THIS TEST REPORT IS VALID UPTO 31.10.2032	COMMERCIAL (ICT)
--	--	-----------------------------

Type of test : COMMERCIAL (ICT)

Name of machine : Tractor Trailer

Make : TRIMURTI ENGINEERING WORKS

Model : TEW 5 TNE

Type, (apa) : 5 tonne trailers for all types of goods and agricultural transportation, rectangular shape and rear side tipping

Manufacturer : **Trimurti Engineering Works,**
#12, Hiwarkhed Road, Belkhed village, Telhara Taluk, Akola Dist., Maharashtra, 444108

Applicant : The Manufacturer



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]





TT/SRFMTTI, ANANTAPUR/2025-26/ 17/17/1945	TRIMURTI ENGINEERING WORKS, TEW 5 TNE TRACTOR TRAILER THIS TEST REPORT IS VALID UPTO 31.10.2032	
--	--	--

12. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATION

- 12.1** The dimensions of hydraulic tipping cylinder do not meet, in full, to the requirement of IS 12371:1988 (Reaffirmed 2019) Type-1. This should be taken care for corrective action.
- 12.2** The dimensions of ring type hitch does not meet, in full, the requirement of IS 11270:1985 (Reaffirmed 2019). This should be taken care for corrective action.
- 12.3** Lighting arrangement for trailer is not provided as per IS 8213:2000 (Reaffirmed 2020). This should be taken care for corrective action.
- 12.4** The dimension of various components of axle assembly does not conform, in full, the requirement of IS 8213:2000 (Reaffirmed 2020). This should be taken care for corrective action. Material requirements for components of Trailer
- 12.5** The trailer must be provided spring suspension (As per IS 1135:2018) for recommended load carrying capacity. This should be take care for corrective action.
- 12.6** Slow moving emblem, T sign and Blow lamps should be provided on the trailer.
- 12.7** **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:
- 1) Month of manufacture
 - 2) Required size of prime mover, kW
 - 3) Unladen Weight, kg
- 12.8** **Adequacy of literature:**
Service manual and parts catalogues of trailer were provided. Operation manual and parts catalogue should be brought out in Hindi and regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel's.

TT/SRFMTTI, ANANTAPUR/2025-26/ 17/17/1945	TRIMURTI ENGINEERING WORKS, TEW 5 TNE TRACTOR TRAILER THIS TEST REPORT IS VALID UPTO 31.10.2032	COMMERCIAL (ICT)
---	--	---------------------

TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. Y. K. RAO SENIOR AGRICULTURAL ENGINEER
  Dr. P.P. RAO DIRECTOR	

13. APPLICANT COMMENTS

Reference No.	Applicant Comments
12.1	We will take corrective action to meet the requirement as per IS 12371:1988 (Reaffirmed 2019) Type-1 in future production.
12.2	We will take corrective action to meet the requirement as per IS 11270:1985 (Reaffirmed 2019) in future production.
12.3	We will take corrective action to meet the requirement as per IS 8213:2000 (Reaffirmed 2020) in future production.
12.4	We will take corrective action to meet the requirement as per IS 8213:2000 (Reaffirmed 2020) in future production.
12.5	We will take corrective action to meet the requirement as per IS 1135:2018 in future production.
12.6	We will provide Slow moving emblem, T sign and Blow lamps in future production.
12.7	We will reveal all necessary information in the labelling plate in future.
12.8	We will take corrective action to meet the requirement as per IS 8132:1999 (Reaffirmed 2004) in future production.