

THIS TEST REPORT IS VALID UPTO 30/11/2030



SHIVRAJ TRAILER, STS-05 TRACTOR TRAILER



सत्यमेव जयते

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

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Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)

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

T-151/1576	SHIVRAJ TRAILER, STS-05 TRACTOR TRAILER	COMMERCIAL (ICT)
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Manufacturer : M/S. Shivraj Trailer Works, Plot No.06,Gut No.3
Near Harsool Toll Naka, Sawangi, Harsool Road,
Aurangabad, Maharashtra 431001

Applicant : The Manufacturer

SHIVRAJ TRAILER, STS-05 TRACTOR TRAILER

Report No. : T-151/1576

Month: December

Year: 2023



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

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**SHIVRAJ TRAILER, STS-05
TRACTOR TRAILER**

**COMMERCIAL
(ICT)**

T-151/1576

THIS TEST REPORT IS VALID UPTO 30/11/2030

Type of test : INITIAL COMMERCIAL TEST

Period of test : 20.11.2023 to 01.12.2023

Test Report No. : **T-151/1576**

Month / Year of release : December, 2023

- 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 the Institute.
- 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 named "**SHIVRAJ TRAILER, STS-05 TRACTOR m, TRAILER**". This report is valid up to 30/11/2030, 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



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	manufacturer , serial number , size , required size of prime mover (kW), weight (Kg)	

12. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATION

- 12.1 The specification of trailer does not conform, in full, to the IS 8213:2000 (Reaffirmed 2020). This should be looked into for corrective action.
- 12.2 Lighting arrangement for trailer is not provided as per IS 8213:2000 (Reaffirmed 2020). This should be taken care for corrective action.
- 12.3 The dimensions of hydraulic tipping cylinder do not meet, in full, to the requirement of IS 12371:1988 (Reaffirmed 2019). This should be taken care for corrective action.
- 12.4 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.
- 12.5 The dimension of various components of axle assembly does not confirm, in full, the requirement of IS 8213:2000 (Reaffirmed 2020). This should be taken care for corrective action.
- 12.6 The provided labeling plate of the trailer should be provided with following information:
 - I. Country of origin
 - II. Month of year of manufactures
 - III. Size
 - IV. Required size of prime mover (kW)
 - V. Weight(kg)
- 12.7 **Adequacy of literature:**




Service manual and parts catalogues of trailer were not provided. Operator manual and parts catalogue should be brought out in Hindi and regional languages as per IS 8213:2000 (Reaffirmed 2020) for the sake of user & technical personnel.

13. Applicants comments

No specific comments from the applicant.

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TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. D.C.MOULI AGRICULTURAL ENGINEER
 Dr. B.M NANDEDE DIRECTOR	

