

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (ICT)

संख्या/No: TT/SRFMTTI,
ANANTAPUR/2025-26/28/28/1965
माह/Month: December, 2025

THIS TEST REPORT IS VALID UP TO 30.11.2032



SURAJ TRAILER, ST 5 TON 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

ट्रैक्टर नगर, गार्लिंडिने - 515 731, जिला: अनंतपुर (आं. प्र.)

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

[An ISO 9001:2015 CERTIFIED INSTITUTE]

TT/SRFMTTI,
ANANTAPUR/2025-26/
28/28/1965

SURAJ TRAILER, ST 5 TON
TRACTOR TRAILER
THIS TEST REPORT IS VALID UPTO
30.11.2032



Manufacturer

: M/s. SURAJ TRAILORS,
GAT NO. 86 A1 B2, SHIRPUR,
Dhule Dist., Maharashtra, India-425405.

Applicant

: The Manufacturer.

SURAJ TRAILER, ST 5 TON TRACTOR TRAILER

Report No.: TT/SRFMTTI, ANANTAPUR/2025-26/28/28/1965

Month: December

Year: 2025



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: fmti-sr@nic.in



**SURAJ TRAILER, ST 5 TON
TRACTOR TRAILER**
**THIS TEST REPORT IS VALID UPTO
30.11.2032**

**COMMERCIAL
(ICT)**

Type of test : COMMERCIAL (ICT)

Period of test : November, 2025 to December, 2025

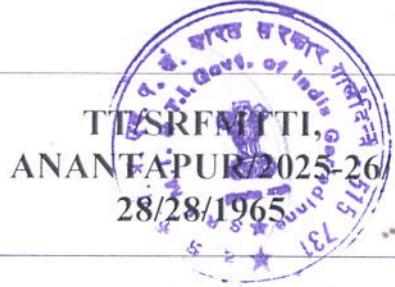
Test Report No. : **TT/SRFMTTI, ANANTAPUR/2025-26/28/28/1965**

Month / Year of release : December, 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) 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.).
- iv) This is a report on Commercial Test of tractor trailer name "**SURAJ TRAILER, ST 5 TON TRAILER**". This report is valid up to **30.11.2025**, 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



TTSRFM ITI,
ANANTAPUR 2025-26

28/28/1965

SURAJ TRAILER, ST 5 TON
TRACTOR TRAILER
THIS TEST REPORT IS VALID UPTO
30.11.2032

COMMERCIAL
(ICT)

12. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATION

- 12.1 Lighting arrangement for trailer is not provided as per IS 8213:2000 (Reaffirmed 2020). This should be looked into for corrective action.
- 12.2 The dimensions of hydraulic tipping cylinder do not meet, in full, to the requirement of IS 12371:1988 (Reaffirmed 2019). This should be looked into for corrective action.
- 12.3 The dimensions of ring type hitch does not meet, in full, the requirement of IS 11270:1985 (Reaffirmed 2019). This should be looked into 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 looked into for corrective action.
- 12.5 The trailer must be provided spring suspension (As per IS 1135:2018) for recommended load carrying capacity. This should be looked into for corrective action.
- 12.6 The Rims are not conforming to IS 13154 and 10694(part 6). This should be looked into for corrective action.
- 12.7 The braking arrangement of trailer is not provided as per IS 8213:2000 (Reaffirmed 2020). This should be looked into for corrective action.
- 12.8 The lubrication required parts shall be provided with suitable arrangement which should be easily accessible and indicated with symbols as per IS 6283(part I), this should be looked into for corrective action.
- 12.9 Slow moving emblem, T sign, Blow lamps, two brake operated stop light, and two turn indicators should be provided on the trailer. This should be looked into for corrective action.



TT/SRFMTTI, ANANTAPUR/2025-26/ 28/28/1965	SURAJ TRAILER, ST 5 TON TRACTOR TRAILER THIS TEST REPORT IS VALID UPTO 30.11.2032	COMMERCIAL (ICT)
---	--	---------------------

12.10 Marking/labeling:

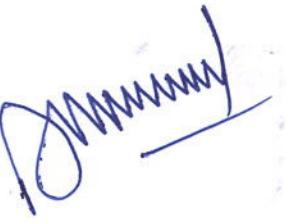
The labeling plate does not reveal all the required information. It is therefore recommended that a suitable labeling plate covering all essential components, inter alia, the following must be provided:

- 1) Month of manufacturer.

12.11 Adequacy of literature:

Service manual and parts catalogues of trailer were provided in English only. However, it is recommended that same may be brought out in Hindi and regional languages and accordance with IS 8213:2000 (Reaffirmed 2020) for the sake of user & technical personnel's.

TESTING AUTHORITY

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