

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT
(INITIAL)

संख्या/No:T-34/1065
माह/Month: September, 2019
Validity: 31.08.2026



**SRI MANJU INDUSTRIES SMI-5 TON
FIVE TONNE TIPPING TRACTOR TRAILER**



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.)
Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)
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T-34/1065	SRI MANJU INDUSTRIES SMI-5 TON FIVE TONNE TIPPING TRACTOR TRAILER	COMMERCIAL (ICT)
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Manufacturer : M/s. Sri Manju Industries,
By Pass Road, Paramathi Velur Taluk,
Namakkal District - 638182,
Tamil Nadu, India

Applicant : The Manufacturer

SRI MANJU INDUSTRIES SMI-5 TON FIVE TONNE TIPPING TRACTOR TRAILER
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8. LOAD MAINTENANCE TEST (Trailer bucket in fully raised position)

Date of test : 23.07.2019
 Operating conditions : Trailer parked on level ground
 Hydraulic oil temperature before start : 62
 of test, °(C)
 Initial height from ground level, (mm) : 3350

Elapsed time (Min.)		Cumulative drop in height of unloading box, (mm)
5	:	2
10	:	3
15	:	3
20	:	4
25	:	6
30	:	7
Leakage of hydraulic fluid from any part of hydraulic system	:	None
Working of hydraulic system	:	Satisfactory

9. EASE OF OPERATION & ADJUSTMENTS

No difficulty was observed during the operation and adjustment of Trailer.

10. DEFECTS, BREAKDOWNS AND REPAIRS

No defect/breakdown and repair was occurred during entire period of testing.

11. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATION

- 11.1 To protect from mud and soil the rubber flaps are provided at rear end of the wheels.
- 11.2 Dimensional requirements of single axle (semitrailer) conform to IS 8213:2000.
- 11.3 Lighting arrangement of trailer is not provided as per IS 8213:2000. This should be looked into for corrective action.
- 11.4 The specification of trailer does not conform in full, to the IS 8213:2000. This should be looked into for corrective action.

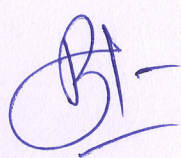
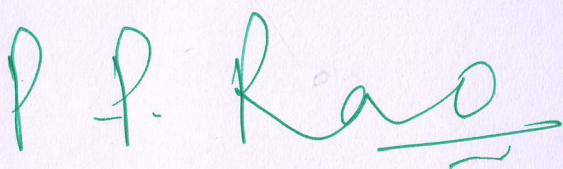
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- 11.5 The provided hitch on the trailer is rotatable, but it should be provided with a spring for shock absorption. fixed type.
- 11.6 The dimensions of hydraulic tipping cylinder does not meet, in full to the requirement of IS 12371:1988. This should be taken into for corrective action
- 11.7 The dimensions of ring does not meet, in full, the requirement of IS 11270:1980 (Reaffirmed 1999). This should be taken into for corrective action.
- 11.8 The dimensions of various components of axle assembly do not conform, in full, the requirement of IS 8213:2000. This should be taken into for corrective action.
- 11.9 Labeling plate should be provided as per the requirement of IS.

11.10 **Adequacy of literature:**

Operation manual, Service manual, and parts catalogue of trailer in English was provided in single booklet form for reference during the test. However, this may be brought out in Hindi and other regional languages as per IS 8132: 1999 (Reaffirmed 2004) for the sake of user & technical personnel.

TESTING AUTHORITY:

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

12. APPLICANT COMMENTS

"All the suggestions are noted. And we will make all possible necessary changes in future production".