

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

संख्या/No: T-60/1148  
माह/Month: April, 2020  
Validity: 31.03.2027



**BHAGAVATHI BFE 5 TON TRACTOR TIPPING 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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<b>T-60/1148</b>	<b>BHAGAVATHI BFE 5 TON TRACTOR TIPPING TRAILER</b>	<b>COMMERCIAL (ICT)</b>
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Manufacturer : M/s. Bhagavathi Farm Equipments,  
3/166, Paalam Rajakkapatti,  
Dindugal-624 622,  
Tamil Nadu, **India.**

Applicant : The Manufacturer

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### **8. LOAD MAINTENANCE TEST (Trailer bucket in fully raised position)**

Date of test : 28.04.2020  
 Operating conditions : Trailer parked on level ground  
 Hydraulic oil temperature before start : 61  
 of test, °(C)  
 Initial height from ground level, (mm) : 3050

<b>Elapsed time (Min.)</b>	:	<b>Cumulative drop in height of unloading box, (mm)</b>
5	:	2
10	:	4
15	:	7
20	:	9
25	:	11
30	:	12
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 The provided hitch on the trailer is rotatable type, but there are neither shock absorbing arrangement nor suspension system provided in it. This should be looked into for corrective action.
- 11.2 To protect from mud and soil the rubber flaps are provided at rear end of the wheels.
- 11.3 Dimensional requirements of single axle (semitrailer) conforms to IS 8213:2000.
- 11.4 Lighting arrangement except slow moving vehicle emblem of trailer is provided as per IS 8213:2000. This should be looked into for corrective action.
- 11.5 The specification of trailer does not conform in full, to the IS 8213:2000. This should be looked into for corrective action.


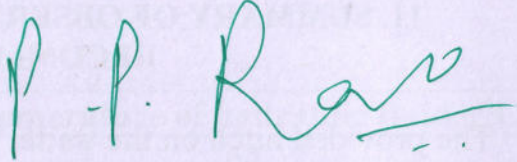
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- 11.6 The dimensions of hydraulic tipping cylinder does not meet, in full to the requirement of IS 12371:1988. This should be taken into for corrective action.
- 11.7 The dimensions of ring type hitch does not meet, in full, the requirement of IS 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 The provided labeling plate should be 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'S COMMENTS**

Para No.	Our reference	Applicant's comments
12.1	11.1	Here after we will correct hitch pin providing system
12.2	11.5	The specification of trailer as per IS 8213:2000. It should be corrected for further production.
12.3	11.6	In future dimensions of hydraulic tipping cylinder should meet as per IS 12371:1988.
12.4	11.7	We will modify this ring to meet in full requirements of IS 11270:1980.