

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

संख्या/No: H&TH/SRFMTTI,
ANANTAPUR/2025-26/20/20/1943
माह/Month: November, 2025

THIS TEST REPORT IS VALID UPTO 31.10.2032



YANMAR FH25 FORAGE HARVESTER
(Tractor Drawn, PTO Powered)



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, गार्लदिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

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

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Manufacturer : M/s. Yanmar Agricultural Machinery India Private Limited, Morinda Bypass, NH 95, Village - Marauli Kalan, Morinda-140101, District-Ropar, Punjab.

Applicant : The Manufacturer

**YANMAR, FH25 FORAGE HARVESTER
(Tractor Drawn, PTO Powered)**

Report No.: **H&TH/SRFMTTI, ANANTAPUR/2025-26/20/20/1943**

Month: **November**

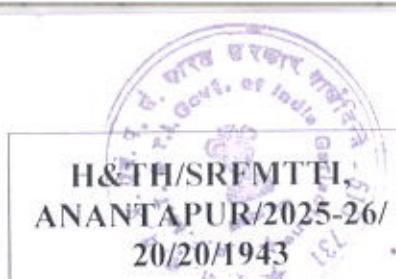
Year: **2025**



**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]**

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Type of test : COMMERCIAL (ICT)
 Period of test : February, 2024 to September, 2025
 Total **16 months** of delay occur due to non-supply of spare parts by the applicant and the details are as under:
 i) 16-months delay occur due to non-supply of spare parts i.e. beater bar, disc blade and fly blades by the applicant for the hardness and chemical composition test.
 Test Report No. : **H&TH/SRFMTTI, ANANTAPUR/2025-26/20/20/1943**
 Month / Year : 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 data given in this report pertain to the particular machine randomly selected from production line by the representative of testing authority for batch test.
 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 Forage Harvester named "**YANMAR FH25 FORAGE HARVESTER**". 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

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Type of test : COMMERCIAL (ICT)

Name of machine : Forage Harvester

Make : YANMAR

Model : FH25

Type : Tractor Drawn, PTO Powered

Manufactured by : M/s. Yanmar Agricultural Machinery India Private Limited, Morinda Bypass, NH 95, Village -Marauli Kalan, Morinda-140101, Distric-Ropar, Punjab.

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.)
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ANANTAPUR/2025-26/
20/20/1943

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13. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATIONS

13.1 The specification of implement hitch, in full, does not conform to the IS: 4468 (Part 1) - 1997. Hence, it is recommended that implement should be provided with the hitch conforming to relevant Indian Standards.

13.2 Dimensions of PIC of implement, in full, does not conform to IS: 4931-1995 and therefore, it should be looked into for corrective action.

13.3 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the forage harvester was observed to the extent of 581 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

13.4 Hardness:

The Hardness test of better bar does not conform to the requirement of IS: 6025-1982. This should be looked into for corrective action.

13.5 Chemical analysis:

The chemical composition of Cutting disc blade, fly wheel blade and beater bar does not conform to the requirement of IS: 6025-1982. Therefore, it should be looked into for corrective action.

13.6 Field performance Test:

13.6.1 Rate of work and fuel consumption:

- The rate of work was recorded as 0.148 to 0.157 ha/h at forward speed of 4.19 to 4.30 kmph.
- Length of stalk after chopping operation was recorded as 4.25 to 5.22 mm.

13.7 The manufacturer has recommended the source of tractor power to operate the forage harvester is of 45-85 hp range. It seems to be much variation declared in vague. Hence, manufacturer has advised to declare the suitable range of power source of tractor only.

13.8 Wear of critical components:

The hourly percentage rate of wear of Cutting disc, fly wheel and corn cracker blades on mass basis was recorded as 0.01, 0.11 to 0.16 & 0.08 to 0.30% respectively.

13.9 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:

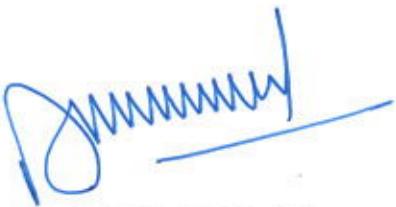
- i) Year of manufacturer
- ii) Size
- iii) Required size of prime mover, (kW/hp)
- iv)

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13.10 Adequacy of literature supplied with the machine:

Operator cum service manual and part's catalogue in English and one more foreign language was supplied with the Forage harvester for reference during the test. It is however, recommended that same may be revised and bought out as per IS: 8132- 1999 (Reaffirmed 2004) in Hindi and in some other regional languages for the sake of user & technical personnels.

TESTING AUTHORITY

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

14. APPLICANT COMMENTS

Sl. No.	Applicant Comments
I	Your recommendations & suggestions will be studied and appropriate actions will be taken.