

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: H&TH/SRFMTTI,  
ANANTAPUR/2025-26/20/20/1977

माह/Month: January, 2026

THIS TEST REPORT IS VALID UP TO 31.12.2032



## HEXXAMAX, HX-43P BRUSH CUTTER



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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H&TH/SRFMTTI,  
ANANTAPUR/2025-  
26/20/20/1977

HEXXAMAX, HX-43P BRUSH CUTTER  
THIS REPORT IS VALID UP TO  
31.12.2032



Manufacturer, (apa) : M/s Hexxamax products private limited,  
Ground floor, TMC -XXXIV -172, noori  
complex, chiravkku, taliparamba, kannur, Kerala -  
670141.

Name of Applicant : Manufacturer

### HEXXAMAX, HX-43P BRUSH CUTTER

Report No.: H&TH/SRFMTTI, ANANTAPUR/2025-26/20/20/1977

Month: January

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सत्यमेव जयते

**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
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 <b>H&amp;TH/SRFMTTI, ANANTAPUR/2025- 26/20/20/1977</b>	<b>HEXXAMAX, HX-43P BRUSH CUTTER</b> <b>THIS REPORT IS VALID UP TO</b> <b>31.12.2032</b>	<b>COMMERCIAL (ICT)</b>
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Type of test : COMMERCIAL (ICT)

Period of test : November, 2025 to January, 2026

Test Report No. : **H&TH/SRFMTTI, ANANTAPUR/2025-26/20/20/1977**


Month / Year of release : January, 2026

- 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 by testing authority through virtual mode.
- iii) The results presented in this report do not in any way attribute to the durability of the machine.
- iv) This Test Report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training & Testing Institute, Garladinne, Anantapur (A.P.).
- v) This is a report on Commercial Test of Brush Cutter named “ **HEXXAMAX, HX-43P BRUSH CUTTER** “. This report is valid up to **31.12.2032**, vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

### SELECTED CONVERSIONS

S. No.	Units	Conversion Factor
<b>1</b>	<b>Force</b>	
	1 kgf	9.80665 N
		2.20462 lbf
<b>2</b>	<b>Power</b>	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 Kw	1.35962 Ps
<b>3</b>	<b>Pressure</b>	
	1 psi	6.895 kPa
	1 kgf/cm <sup>2</sup>	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm <sup>2</sup>
	1 mm of Hg	1.3332 m-bar



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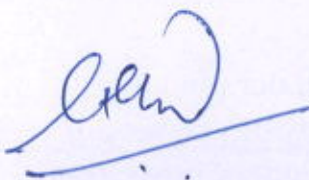


## 17. COMMENTS & RECOMMENDATIONS

- 17.1 The rated power was observed as 0.90 kW under natural ambient condition against the declared value of 1.40 kW.
- 17.2 The safety provisions, as mentioned at **Para 5.14**, have been provided by the applicant for safety aspect of operators.
- 17.3 A fuel on/off knob may be providing in the fuel system of engine.
- 17.4 **Noise measurement:**  
Max. Noise at operator's ear level was observed as 99.4 dB (A), which is on higher side, therefore suitable corrective action should be taken to reduce the noise level.
- 17.5 **Mechanical vibration:**  
The equivalent mechanical vibration on engine cover was observed to the extent of 337 micron. This should be looked into for dampening the vibration.
- 17.6 **Hardness and Chemical analysis:**  
The Hardness and chemical analysis of straight blade (2Teeth) is not as per requirement of the relevant code IS 6025:1982 (Reaffirmed 1999) & therefore it should be looked into for the corrective action.
- 17.7 **Marking/Labeling:**  
A suitable labeling plate (Not Sticker) needs to be provided with "inter alia" following information:
- Rated RPM
  - SFC, (g/kWh)
- 17.8 **Adequacy of literature supplied with the machine:**  
User's manual is not provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.  
The following literature should be provided.
- Service manual
  - Parts catalogue



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### TESTING AUTHORITY

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

### 18. APPLICANT'S COMMENTS

Sl. No.	Para No.	Comments
1	17.1	This we look in to this and will improve it.
2	17.3	This we will keep in our mind while improving the product.
3	17.4	We will reduce the noise levels in our improved product.
4	17.5	We will improve the vibration on the engine.
5	17.6	We will change the material used in the 2 Teeth Blade.
6	17.7	This we provide on the Engine box. As recommended you the Institute we will engrave this information on the machine.
7	17.8	We will improve our operator's manual and parts catalogue as per IS: 8132- 1999 (Reaffirmed 2004). This will be provided along with machine.