

**THIS TEST REPORT IS VALID UP TO 30.06.2031**



**MAA SANTHOSHI ENGINEERING, MSE TIGER POWER-TGP-BHC-7  
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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Website: <http://srfmtti.dacnet.nic.in/>

Machine- 607/1664	MAA SANTHOSHI ENGINEERING, MSE TIGER POWER-TGP-BHC-7 BRUSH CUTTER	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Xian Far East & Export Co. Ltd.,  
No. 34, South Hancheng Road, Xian, **China**.

Name of Applicant : M/s. Maa Santhoshi Engineering,  
Near Agarwal Bhawan, Main Road, Jaipatna (PS),  
Kalahandi (Dist), Odisha-766018.

**MAA SANTHOSHI ENGINEERING, MSE TIGER POWER-TGP-BHC-7  
BRUSH CUTTER**

Report No.: Machine-607/1664

Month: **July**

Year: **2024**



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Machine-  
607/1664

MAA SANTHOSHI ENGINEERING, MSE  
TIGER POWER-TGP-BHC-7 BRUSH CUTTER  
THIS REPORT IS VALID UP TO 30.06.2031

COMMERCIAL  
(ICT)



Type of test : COMMERCIAL (ICT)  
Period of test : April, 2024 to June, 2024  
Test Report No. : **Machine-607/1664**  
Month / Year of release : July, 2024

- 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 .
- 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 "MAA SANTHOSHI ENGINEERING, MSE TIGER POWER-TGP-BHC-7 BRUSH CUTTER". This report is valid up to **30.06.2031** Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

### SELECTED CONVERSIONS



Sl. No.	Units	Conversion Factor
1	<b>Force</b>	
	1 kgf	9.80665 N
		2.20462 lbf
2	<b>Power</b>	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 Kw	1.35962 Ps
3	<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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### 16. COMMENTS & RECOMMENDATIONS

- 16.1 The maximum power was observed as 0.67 kW under natural ambient condition against the declared value of 1.4 kW.
- 16.2 The safety provisions, as mentioned at para 5.14, have been provided by the applicant for safety aspect of operators.
- 16.3 Max. Noise at operator's ear level was observed as 99 dB (A), which is on higher side, therefore suitable corrective action should be taken to reduce the noise level.
- 16.4 The equivalent mechanical vibration on engine cover was observed to the extent of 295 micron. This should be looked into for dampening the vibration.
- 16.5 A fuel on/off knob may be considered for providing in the fuel system of engine.
- 16.6 **Adequacy of literature supplied with the machine:**  
The Operator's manual cum parts catalogue of brush cutter and engine in English was supplied with the brush cutter for reference during the test. It is however, recommended that same may be revised and brought out as per IS: 8132- 1999 (Reaffirmed 2004) for the sake of user & technical personnel.

### TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	
Dr. B.M. NANDEDE DIRECTOR	

### 17. APPLICANT COMMENTS

We have gone through your comments and recommendations, we will do the corrective action on particular comments in our future products.