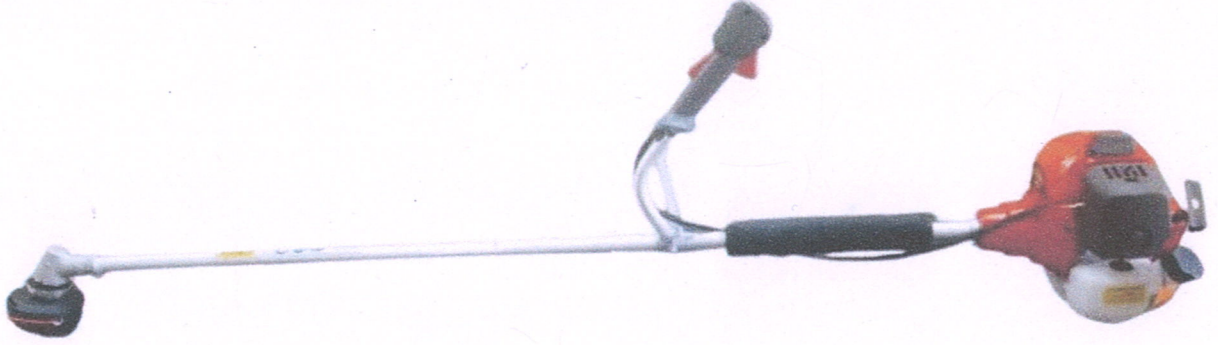


THIS TEST REPORT IS VALID UP TO 31.12.2031



GALLOP, H541 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.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

Machine- 703/1803	GALLOP, H541 BRUSH CUTTER	COMMERCIAL (ICT)
	THIS REPORT IS VALID UP TO 31.12.2031	

Manufacturer, (apa) : M/s. SHANGHAI NEWTOP MACHINERY
CO., LTD Suite 103, Bldg 6, Xinqiao Creative
Park, No.183, Yinshan Road, Pudong
Shanghai, P.R.C.

Name of Applicant : M/s. AGRISPRAY SHOP,
7246/5349/2981/2, Agrispray shop, I G road,
Gundappa Street, Chikkamagaluru, Karnataka
– 577101.

GALLOP, H541 BRUSH CUTTER

Report No.: **Machine-703/1803**

Month: **January**

Year: **2025**

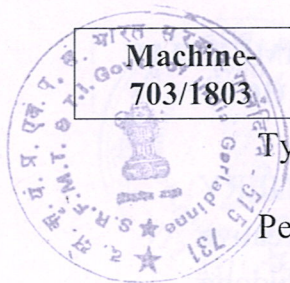


सत्यमेव जयते

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]

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in



Machine-
703/1803

GALLOP, H541 BRUSH CUTTER

THIS REPORT IS VALID UP TO 31.12.2031

COMMERCIAL
(ICT)

Type of test : COMMERCIAL (ICT)
Period of test : November, 2024 to January, 2025
Test Report No. : Machine-703/1803
Month / Year of release : January, 2025

- The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- The data given in this report pertain to the particular machine randomly selected by testing authority through virtual mode.
- The results presented in this report do not in any way attribute to the durability of the machine.
- 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.).
- This is a report on Commercial Test of Brush Cutter named "GALLOP, H541 BRUSH CUTTER". This report is valid up to 31.12.2031, 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

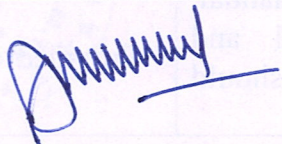
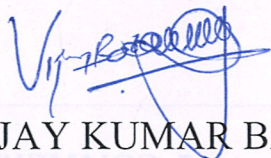
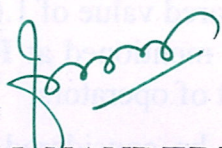
Machine- 703/1803		GALLOP, H541 BRUSH CUTTER THIS REPORT IS VALID UP TO 31.12.2031		COMMERCIAL (ICT)	
1	2	3	4	5	
30	Literature	Operator manual, service manual and parts catalogue should be provided	Provided	Conforms	

17. COMMENTS & RECOMMENDATIONS

- 17.1** The maximum power was observed as 1.48 kW under natural ambient condition against the declared value of 1.6 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 considered for providing in the fuel system of engine.
- 17.4 Noise measurement:**
Max. Noise at operator's ear level was observed as 96 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 187 micron. This should be looked into for dampening the vibration.
- 17.6 Hardness and chemical analysis:**
The **Hardness and chemical analysis** of Straight blade (2 teeth) and Circular disc are not as per requirement of the relevant code IS 6690:1981 (Reaffirmed 2012) & therefore it should be looked into for the corrective action.
- 17.7 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, interlaid, the following must be provided:
i) Address of manufacturer
ii) Country of origin,
iii) Engine number
iv) Specific fuel consumption (g/kWh)
- 17.8 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.

Machine- 703/1803	GALLOP, H541 BRUSH CUTTER	COMMERCIAL (ICT)
	THIS REPORT IS VALID UP TO 31.12.2031	

TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	



18. APPLICANT'S COMMENTS

We consider your comments & recommendations seriously & inform our management & manufacturing department to immediately take necessary actions to rectify the issues according to your comments & recommendations.

ANNEXURE-I

FIELD PERFORMANCE RESULTS

Attachments used : Nylon rope
Place of test : Institute
Usage : For cutting of weeds & grass.

Sl. No.	Parameters	Test No. I	Test No. II
1	Date of test	18.11.2024	19.11.2024
2	Net test duration, (h)	6.00	3.50
3	Intensity of grass	Dense	
4	Av. height of grass, (cm)	60.4	49.4
5	Av. no. of grass per m ²	376.7	395.3
6	Av. mass of grass per m ² , (kg)	510.37	501.67
7	Area harvested, (ha/h)	0.044	0.044
8	Av. time required for one ha, (h)	22.73	22.73
9	Av. mass of grass harvested, (kg/h)	41.81	42.12
10	Av. fuel consumption:		
	- l/h	1.1	1.0
	- l/ha	25.0	22.7