

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

संख्याNo: Machine-493/1502

COMMERCIAL TEST REPORT

माहMonth: May, 2023

(INITIAL)

Validity: 30.04.2028

TEST REPORT IS VALID UPTO 30/04/2028



BRUSH CUTTER VARSHA G-45



सत्यमेव जयते

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

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Machine- 493/1502	BRUSH CUTTER VARSHA G-45	COMMERCIAL (ICT)
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Name of Manufacturer
(apa) : M/S VARSHAA AGRO MACH ENGG
PVT.LTD.NO.1976-1, IYYER HOSPITAL ROAD,
SINGANALLUR, COIMBATORE, TAMIL NADU-
641005, INDIA

Name of Applicant : M/S VARSHAA AGRO MACHINERY ENGINEERING
PVT.LTD.NO.1976-1, IYYER HOSPITAL
ROAD,SINGANALLUR, COIMBATORE,
TAMIL NADU-641005, INDIA

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Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
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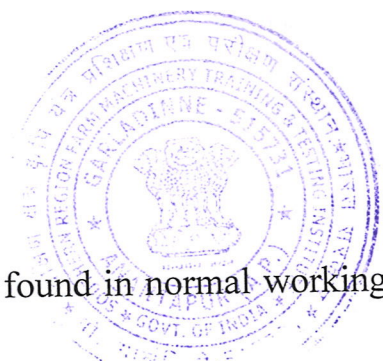
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Main and Big end bearings:

Main bearings:

Bearing No.	Type of bearings	Diametrical clearance, (mm)	Crankshaft end float, (mm)	Max. permissible clearance limit, (mm)	
				Diametrical clearance	Crankshaft end float
1.	Ball bearing	-	0.12	NA	0.45
2.	Ball bearing	-			



5.2 Transmission system:

All the gears of the transmission system were found in normal working condition.



16. COMMENTS & RECOMMENDATIONS

- 16.1 The safety provisions, as mentioned at para 5.14, have been provided by the applicant for safety aspect of operators.
- 16.2 The equivalent mechanical vibration on engine cover was observed to the extent of 397 micron. This should be looked into for dampening the vibration.
- 16.3 A fuel on/off knob may be considered for providing in the fuel system of engine.
- 16.4 The hardness of 2 teeth blades do not conform to the requirement of IS 6025-1982 (HRC). This should be looked into for corrective action.
- 16.5 The provided labeling plate should be as per the requirement of the IS. Engine serial no and make, model of engine should be given with embossing on engine body instead of sticker during production level.

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- 16.7 **Adequacy of literature supplied with the machine:**
 The User's manual and spare parts list of brush cutter and engine in English were 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- 1 (Reaffirmed: 2019) for the sake of user & technical personnel.

TESTING AUTHORITY

D.C. MOULI AGRICULTURAL ENGINEER	
P. KAMALABAI SENIOR AGRICULTURAL ENGINEER /DIRECTOR(I/C)	

17. Applicants Comments

We have gone through with the details and we will follow your instructions further to improve the product.

FIELD PERFORMANCE RESULTS

ANNEXURE-I

Attachments used : Nylon rope
 Place of test : At Institute, SRFMT&TI
 Usage : For cutting the lawn grass

Parameters	No. of tests		
	I	II	III
1 Date of test	09.12.2022	12.12.2022	12.12.2022
2 Net test duration (h)	5.0	4.0	4.0
3 Intensity of grass	Dense	Dense	Dense
4 Av. height of grass (cm)	20	20	20
5 Av. no. of grass per m ²	406.67	426.66	429.3
6 Av. mass of grass per m ² (kg)	0.8	0.7*	0.86
7 Area harvested, (ha/h)	0.136	0.141	0.132
8 Av. time required for one ha (h)	7.35	7.09	7.57
9 Av. mass of grass harveste(kg/h)	130.19	119.8	135.9
10 Av. fuel consumption			
- l/h	0.85	0.75	0.85
- l/ha	6.24	5.32	6.43