

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

संख्या/No: Machine-558/1609

COMMERCIAL TEST REPORT(INITIAL)

माह/Month: April, 2024

THIS TEST REPORT IS VALID UPTO 31.03.2031



**CHAKRADHAR CHEMICALS PVT.LTD, PADDY HARVESTER BP-35
BRUSH CUTTER (Back Mounted)**



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]

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Tele.: 08551-286441

Machine- 558/1609	CHAKRADHAR CHEMICALS PVT.LTD, PADDY HARVESTER BP-35 BRUSH CUTTER (Back Mounted)
	THIS REPORT IS VALID UPTO 31.03.2031



Manufacturer : M/S. Chakradhar Chemicals Pvt Ltd,
Office: E 3-5.UPSIDC,Begrajpur Industrial
Area, Pradesh 251203
Branch: #53,2nd Floor, Infantry Road,
Bangalore-560001, Karnataka.

Name of Applicant : M/S. Sampoorti Farmtec Pvt. Ltd A-903,
Mayflower Block Brigade Millennium,7th
Phase J.P Nagar,Bangalore-560078

**CHAKRADHAR CHEMICALS PVT.LTD, PADDY HARVESTER BP-35
BRUSH CUTTER (Back Mounted)**

Report No.: Machine-558/1609

Month: April

Year: 2024



सत्यमेव जयते

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Ministry of Agriculture and Farmers Welfare
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Machine- 558/1609	CHAKRADHAR CHEMICALS PVT.LTD, PADDY HARVESTER BP-35 BRUSH CUTTER (Back Mounted)	COMMERCIAL (ICT)
	THIS REPORT IS VALID UPTO 31.03.2031	

Type of test : COMMERCIAL (ICT)

Period of test : 31.01.2024 to 16.04.2024

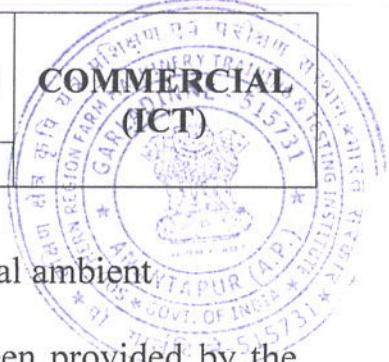
Test Report No. : **Machine-558/1609**

Month / Year of release : April, 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 at applicant's site.
- 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 "**CHAKRADHAR CHEMICALS PVT.LTD, PADDY HARVESTER BP-35 BRUSH CUTTER (Back Mounted)**". This report is valid up to **31.03.2031**, 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- 558/1609	CHAKRADHAR CHEMICALS PVT.LTD, PADDY HARVESTER BP-35 BRUSH CUTTER (Back Mounted)	 COMMERCIAL (ICT)
	THIS REPORT IS VALID UPTO 31.03.2031	

16. COMMENTS & RECOMMENDATIONS




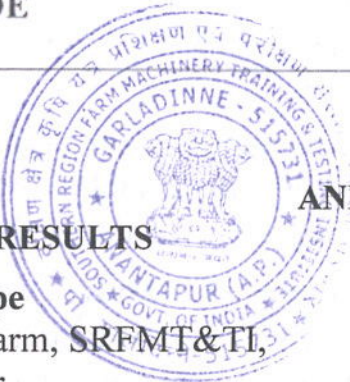
- 16.1 The maximum power was observed as 0.72 kW under natural ambient condition against the declared value of 1.2 kW.
- 16.2 The safety provisions, as mentioned at para 5.14, have been provided by the applicant for safety aspect of operator's.
- 16.3 Max. Noise at operator's ear level was observed as 92 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 291 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 The chemical composition of straight blade is not as per requirement of the relevant code IS 6025:1982 (Reaffirmed 1999) & therefore it should be looked into for the corrective action.
- 16.7 **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.

17. APPLICANT'S COMMENTS

We have received proposed draft test report, we request you to kindly proceed the final copy.

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TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. P.KAMALABAI SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	

ANNEXURE-I

FIELD PERFORMANCE RESULTS

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

Sl. No.	Parameters	No. of tests		
		I	II	III
1	Date of test	31.01.24	1.02.24	02.02.24
2	Net test duration, (h)	6.00	5.50	6.00
3	Intensity of grass	Dense		
4	Av. height of grass, (cm)	84	79.7	90
5	Av. no. of grass per m ²	416.7	418.3	409.7
6	Av. mass of grass per m ² , (kg)	0.465	0.458	0.489
7	Area harvested, (ha/h)	0.092	0.092	0.099
8	Av. time required for one ha, (h)	10.86	10.87	10.10
9	Av. mass of grass harvested, (kg/h)	73.97	70.69	73.61
10	Av. fuel consumption:			
	- l/h	0.420	0.450	0.430
	- l/ha	4.56	4.89	4.34