

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: H&TH/SRFMTTI,
ANANTAPUR/2025-26/08/08/1881
माह/Month: June, 2025

THIS TEST REPORT IS VALID UPTO 31.05.2032



AGRI-WHALE, AW-BC-530 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]

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

E-mail: fmti-sr@nic.in

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| H&TH/SRFMTTI, ANANTAPUR/2025-26/ 08/08/1881 | AGRI-WHALE, AW-BC-530 BRUSH CUTTER THIS REPORT IS VALID UP TO 31.05.2032 |  |
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Manufacturer, (apa) : M/s Joins Hangzhou Joins Imp & Exp., Co. Ltd.,
Room 809, No. 1451, Binxing Road, Change
Street. Binxing District Hangzhou, 310052,
Zhejiang Province, **China.**

Name of Applicant : M/S. Sri Shakthi Enterprises, #107/1-2 Shahzad
Building J C Road, Bengaluru Rural, Bangalore-
560002, Karnataka.

AGRI-WHALE, AW-BC-530 BRUSH CUTTER

Report No.: **H&TH/SRFMTTI, ANANTAPUR/2025-26/08/08/1881**

Month: **June**

Year: **2025**



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| H&TH/SRFMTTI, ANANTAPUR/2025-26/ 08/08/1881 | AGRI-WHALE, AW-BC-530 BRUSH CUTTER | COMMERCIAL (ICT) |
| | THIS REPORT IS VALID UP TO 31.05.2032 | |

Type of test : INITIAL COMMERCIAL TEST (ICT)

Period of test : April, 2025 to May, 2025


Test Report No. : H&TH/SRFMTTI, ANANTAPUR/2025-26/08/08/1881

Month/Year of release : June, 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 "AGRI-WHALE, AW-BC-530 BRUSH CUTTER". This report is valid up to 31.05.2032, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

SELECTED CONVERSIONS

| S. No. | Units | Conversion Factor |
|--------|-----------------------|--------------------------------|
| 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 |

| | | | | |
|---|------------|---|--------------|--|
| H&TH/SRFMTTI, ANANTAPUR/2025-26/ 08/08/1881 | | AGRI-WHALE, AW-BC-530 BRUSH CUTTER THIS REPORT IS VALID UP TO 31.05.2032 | |  |
| 1 | 2 | 3 | 4 | |
| 30 | Literature | Operator manual, service manual and parts catalogue should be provided | Not Provided | Does not conform |

17. COMMENTS & RECOMMENDATIONS

- 17.1** The rated power was observed as 1.38 kW under natural ambient condition against the declared value of 1.46 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 Mechanical vibration:

The equivalent mechanical vibration on engine cover was observed to the extent of 322 micron. This should be looked into for dampening the vibration.

17.5 Hardness & Chemical analysis:

The hardness & chemical composition of Circular Disc 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.

17.6 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:

- Address of manufacturer
- Engine number
- Specific fuel consumption, (g/kWh)

17.7 Adequacy of literature supplied with the machine:

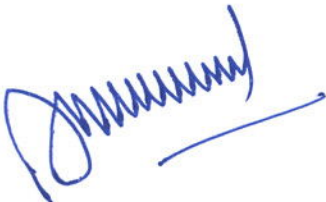
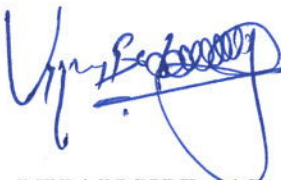

User's manual is not provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

The following literature should be provided.

- Service manual
- Parts catalogue

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|---|---|---------------------|
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TESTING AUTHORITY

| | |
|--|--|
|  Er. PRAMOD YADAV AGRICULTURAL ENGINEER |  Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER |
|  Dr. P. P. RAO DIRECTOR | |



18. APPLICANT COMMENTS -NIL-

ANNEXURE-I

FIELD PERFORMANCE RESULTS

Attachments used : Nylon rope
Place of test : Institute
Usage : For cutting the grass

| Sl. No. | Parameters | Test No. I | Test No. II |
|---------|---|------------|-------------|
| 1 | Date of test | 16.04.2025 | 17.04.2025 |
| 2 | Net test duration, (h) | 6.00 | 3.50 |
| 3 | Intensity of grass | Dense | |
| 4 | Av. height of grass, (cm) | 0.69 | 0.65 |
| 5 | Av. no. of grass per m ² | 258 | 252 |
| 6 | Av. mass of grass per m ² , (kg) | 0.284 | 0.276 |
| 7 | Area harvested, (ha/h) | 0.067 | 0.065 |
| 8 | Av. time required for one ha, (h) | 14.92 | 15.38 |
| 9 | Av. mass of grass harvested, (kg/h) | 30.37 | 28.54 |
| 10 | Av. fuel consumption: | | |
| | - l/h | 0.80 | 0.82 |
| | - l/ha | 11.94 | 12.61 |