

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: Machine-715/1817

माह/Month: January, 2025

THIS TEST REPORT IS VALID UP TO 31.12.2031



AGRICARE, ACBC-435 T 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

Machine- 715/1817	AGRICARE, ACBC-435 T BRUSH CUTTER THIS REPORT IS VALID UP TO 31.12.2031	COMMERCIAL (ICT)
----------------------	--	---------------------

Manufacturer, (apa) : M/s. Taizhou Qinli Machinery Co. Ltd,
Yanhai Industrial Zone, Sanjia Str.,
Jiaojiang district, Taizhou city, Zhejiang,
China.

Name of Applicant : M/s. Sri Sai Agri Tech,
6-1-3949 Shivam Complex Gangavathi
Road, Sindhanur (Tq), Raichur (dt),
Karnataka-584128.

AGRICARE, ACBC-435 T BRUSH CUTTER

Report No.: Machine-715/1817

Month: January

Year: 2025



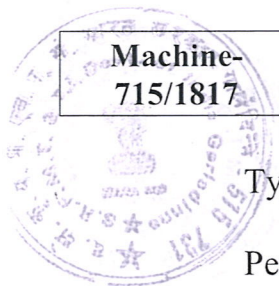
Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
Southern Region Farm Machinery Training and Testing Institute
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)
[An ISO 9001:2015 CERTIFIED INSTITUTE]

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

E-mail: fmti-sr@nic.in

SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE,
ANANTAPUR, (A.P.)

Page 2 of 25



Machine-
715/1817

AGRICARE, ACBC-435 T BRUSH CUTTER
THIS REPORT IS VALID UP TO 31.12.2031

COMMERCIAL
(ICT)

Type of test : COMMERCIAL (ICT)
Period of test : December, 2024 to January, 2025
Test Report No. : Machine-715/1817
Month / Year of release : January, 2025

- 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 through virtual mode.
- 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 "AGRICARE, ACBC-435 T 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- 715/1817	AGRICARE, ACBC-435 T BRUSH CUTTER	COMMERCIAL (ICT)
	THIS REPORT IS VALID UP TO 31.12.2031	

1	2	3	4	5
25	Provision for pad with shoulder belt to dampen the vibration	Must be provided	Provided	Conforms
26	Provision for cover on exhaust	Must be provided	Provided	Conforms
27	Direction of exhaust emission away from operator	Must be provided	Provided	Conforms
28	Provision for safety kit (helmet, ear plug, mask, hand gloves, safety glass, protective cloth, safety shoes)	Must be provided	Provided	Conforms
29	Marking/labelling of machine	The labeling plate should be riveted on the body of the machine having name and address of manufacturer & applicant, country of origin, make, model, year of manufacturer, serial number, engine number, engine HP, rated rpm & SFC	Name and address of manufacturer & applicant rated rpm and SFC are not provided.	Does not conform
30	Literature	Operator manual, service manual and parts catalogue should be provided	Not provided	Does not conform

17. COMMENTS & RECOMMENDATIONS

- 17.1 The maximum power was observed as 0.85 kW under natural ambient condition against the declared value of 0.80 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 95 dB(A), which is on higher side, therefore suitable corrective action should be taken to reduce the noise level.

Machine- 715/1817	AGRICARE, ACBC-435 T BRUSH CUTTER THIS REPORT IS VALID UP TO 31.12.2031	COMMERCIAL (ICT)
----------------------	--	---------------------

17.5 Mechanical vibration:

The equivalent mechanical vibration on engine cover was observed to the extent of 246 micron. This should be looked into for dampening the vibration.

17.6 Hardness and chemical analysis:

The hardness & chemical composition of circular disc and straight blade are not as per requirement of the relevant code IS 6025:1982 (Reaffirmed 1999) & therefore it should be looked into for the corrective action.

17.7 Marking /labeling:


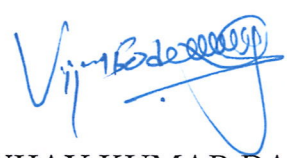

The labeling plate does not reveal all the required information. it is therefore recommended that a suitable labeling plate covering all essential components, inter alia, the following must be provided:

- i) Name and address of manufacture & applicant
- ii) Rated RPM
- iii) 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.

TESTING AUTHORITY

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



18. APPLICANT'S COMMENTS

-NIL-

SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)	Page 23 of 25
---	---------------