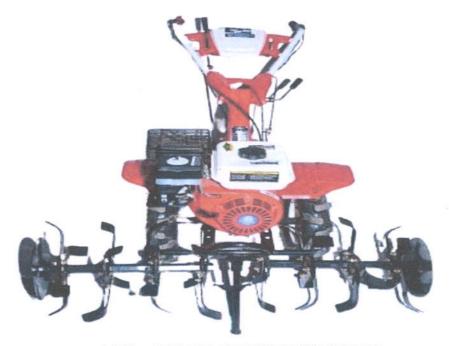
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: Machine-674/1748

माह/Month: October, 2024

THIS TEST REPORT IS VALID UP TO 30/09/2031



ANU, AES 2014 POWER WEEDER



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 9001:2015CERTIFIEDINSTITUTE]

Website: http://srfmtti.dacnet.nic.in/
E-mail: fmti-sr@nic.in/

ANU, AES 2014 POWER WEEDER

COMMERCIAL

THIS TEST REPORT IS VALID UP TO 30/09/2031

(ICT)

Manufacturer, (apa)

: M/s. Chongqing Senci Wugu Agricultural Machinery Import & Export Co., Ltd No.8, Longfei Road, Dongcheng Street, Tongliang Town, Chongqing, China.

Applicant

: M/s. Sunny Enterprises 5-1-553/2, G, Venkat Rao Colony Near New Bus Stand, Sindhanur, Karnataka-584128.

ANU, AES 2014 POWER WEEDER

Report no.: Machine-674/1748 Month: October Year: 2024



Government of India

Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR (A.P.)

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ANU, AES 2014 POWER WEEDER

THIS TEST REPORT IS VALID UP TO 30/09/2031

COMMERCIAL (ICT)

Type of test

: COMMERCIAL (ICT)

Period of test

: 01.10.2024 to 24.10.2024

Test Report No.

: Machine-674/1748

Month / Year of release

: October, 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.
- iii) The results presented in this report do not, in anyway, 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 Power Weeder named "ANU, AES 2014 POWER WEEDER". This report is valid up to 30/09/2031, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

SELECTED CONVERSIONS

S. No.	Units	cs 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	$100 \text{ kPa} = 10 \text{ N/cm}^2$	
	1 mm of Hg	1.3332 m-bar	

ANU, AES 2014 POWER WEEDER

THIS TEST REPORT IS VALID UP TO 30/09/2031

COMMERCIAL (ICT)

18.	4.8 × 000 1 2	3	4	5
21	Provision for easy start of engine	Must be provided	Provided	Conforms
22	Provision for shield/cover to prevent flying of mud and stone from rotor	Must be provided	Provided	Conforms
23	Depth control mechanism	Must be provided	Provided	Conforms
24	Provision for transport wheels	Must be provided	Provided	Conforms
25	Provision for cover on exhaust	Must be provided	Provided	Conforms
26	Direction of exhaust emission away from operator	Must be provided	Provided	Conforms
27	Marking/labeling 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	Address of the manufacturer, Country of origin, SFC are not provided	Does not conform
28	Literature	Operator manual, service manual and parts catalogue should be provided	Provided	Conforms

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 3.71 kW under natural ambient condition against the declared value of 3.7 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 514 g/kWh against the declared value of 345 g/kWh.
- 18.1.3 Back up torque of engine was observed as 14.3 % against declared value of 12 %.
- 18.1.4 Max. torque was observed as 11.20 Nm against the declared value of 12 Nm.

ANU, AES 2014 POWER WEEDER

THIS TEST REPORT IS VALID UP TO 30/09/2031

COMMERCIAL (ICT)

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 266 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Chemical:

The hardness of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

18.4 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 the manufacturer
- ii) Country of origin
- iii) Specific fuel consumption (g/kWh)

18.5 Technical literature:

Operators manual and parts catalogue of power weeder were supplied with test sample for reference during the test. It is however, recommended that same may be revised and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2019) for the sake of user & technical personnel in booklet form.

TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER

Dr. B.M. NANDEDE DIRECTOR

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19. APPLICANT COMMENTS Nill.

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