

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: H&TH/SRFMTTI,

ANANTAPUR/2025-26/16/16/1902

माह/Month: August, 2025

THIS TEST REPORT IS VALID UPTO 31.07.2032



NAGA AGRITECH, Unicorn Nato-BC-300 BRUSH CUTTER



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

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

H&TH/SRFMTTI, ANANTAPUR/2025-26/ 16/16/1902	NAGA AGRITECH, UnicornNato-BC-300 BRUSH CUTTER THIS TEST REPORT IS VALID UP TO 31.07.2032	COMMERCIAL (ICT)
---	--	---------------------

Manufacturer, (apa) : M/s. Chongqing Diligence General Machinery Co. Ltd., Building 1 No.1 Kangchao Road, Huaxi Banan, District Chongqing, China.

Name of Applicant : M/s. NAGA AGRITECH,
No.354/8, Vishweswarapura village,
Kempalinganahalli Service Road, Kunigal
Bypass, Nelamangala Taluk, Bengaluru rural
District, Karnataka 562123.

NAGA AGRITECH, UnicornNato-BC-300 BRUSH CUTTER

Report no.: H&TH/SRFMTTI, ANANTAPUR/2025-26/16/16/1902

Month: August

Year: 2025



सत्यमेव जयते

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: fnti-sr@nic.in

H&TH/SRFMTTI, ANANTAPUR/2025-26/ 16/16/1902	NAGA AGRITECH, UnicornNato-BC-300 BRUSH CUTTER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.07.2032	

Type of test : COMMERCIAL (ICT)

Period of test : December, 2024 to January, 2025
A delay of six months was incurred due to non-submission of comments by the applicant.

Test Report No. : H&TH/SRFMTTI, ANANTAPUR/2025-26/16/16/1902

Month / Year of release : August, 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 name "**NAGA AGRITECH, UNICORN NATO-BC-300 BRUSH CUTTER**". This report is valid up to **31.07.2032**, 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/ 16/16/1902	NAGA AGRITECH, UnicornNato-BC-300 BRUSH CUTTER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.07.2032	

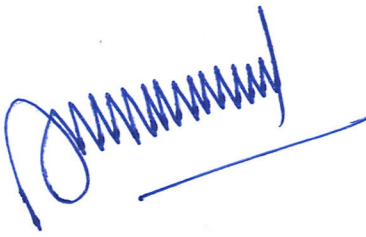
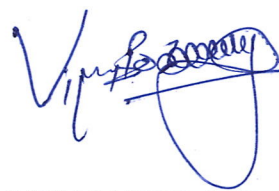


1	2	3	4	5
29	Marking/labelling machine of	The labeling plate should be riveted on the body of the machine having name and address of manufacturer & applicant, country of origin, make, model, year of manufacturer, serial number, engine number, engine HP, rated rpm & SFC	Address of the manufacturer, country of the origin, not provided	Does not conform
30	Literature	Operator manual, service manual and parts catalogue should be provided	Provided	Conforms

17. COMMENTS & RECOMMENDATIONS

- 17.1** The maximum power was observed as 0.87 kW under natural ambient condition against the declared value of 0.90 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** The equivalent mechanical vibration on engine cover was observed to the extent of 169 micron. This should be looked into for dampening the vibration.
- 17.4** A fuel on/off knob may be considered for providing in the fuel system of engine.
- 17.5 Chemical analysis:**
The chemical composition of Circular Disc blade is not as per requirement of the relevant code IS 6690:1981 (Reaffirmed 2012) & 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:
i) Address of manufacturer
ii) Country of origin
- 17.7 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 personnels.

H&TH/SRFMTTI, ANANTAPUR/2025-26/ 16/16/1902	NAGA AGRITECH, UnicornNato-BC-300 BRUSH CUTTER THIS TEST REPORT IS VALID UP TO 31.07.2032	COMMERCIAL (ICT)
---	--	---------------------

TESTING AUTHORITY

 <p>Er. PRAMOD YADAV AGRICULTURAL ENGINEER</p>	 <p>Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER</p>
 <p>Dr. P.P.RAO DIRECTOR</p> 	

18. APPLICANT'S COMMENTS

Reference	Applicant's comments
17.3	We will take corrective action in future production.
17.4	We will check with the design engineer on possibility of providing ON/OFF Knob to the engine.
17.5	We will take corrective action in future productions.
17.6	Suitable labeling plate covering with all essential components will be taken care in the future productions along with manufacturer and country of origin details will be mentioned in the name plate.
17.7	We will take corrective action as per IS standard. we will make the product literature available in all the regional languages in future productions.