

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

संख्या/No: Machine-532/1569

COMMERCIAL TEST REPORT (INITIAL)

माह/Month: November, 2023

THIS TEST REPORT IS VALID UPTO 31.10.2028



**DIBYANKA DA IPL-DBS 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

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Machine- 532/1569	<b>DIBYANKA DA IPL-DBS BRUSH CUTTER</b>	<b>COMMERCIAL (ICT)</b>
	<b>THIS TEST REPORT IS VALID UPTO 31.10.2028</b>	

Name of Manufacturer : M/S Fuzhou Teamax Power Technology Co. Ltd.,  
(apa) Add No.-58, Juyuanzhou Industrial Park, Fuzhou,  
China.

Name of Applicant : M/S Dibyanka Agro (India) Pvt. Ltd., Tadada,  
Tamsuli, Singla, Balasore, Odisha – 756081.

### **DIBYANKA DA IPL-DBS BRUSH CUTTER**

Report No.: **Machine-532/1569**

Month: **November**

Year: **2023**



सत्यमेव जयते

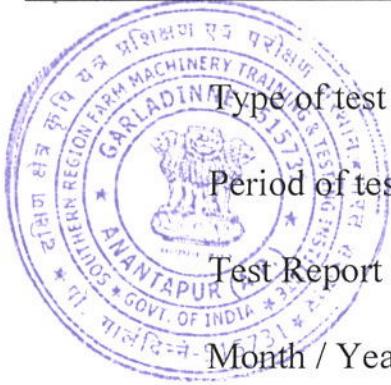
**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
**Department of Agriculture and Farmers Welfare**  
**Southern Region Farm Machinery Training and Testing Institute**  
**Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)**  
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Machine- 532/1569	DIBYANKA DA IPL-DBS BRUSH CUTTER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 31.10.2028	



Type of test : INITIAL COMMERCIAL TEST  
 Period of test : 14.09.2023 to 17.11.2023  
 Test Report No. : Machine-532/1569  
 Month / Year of release : November, 2023

- i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii) The brush cutter was selected randomly 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 "DIBYANKA DA IPL-DBS BRUSH CUTTER ". This report is valid up to 31.10.2028, Vide Ministry's O.M. No. 13-24/2018-M&T (I&P) dated 19.09.2018.

### SELECTED CONVERSIONS

S. No.	Units	Conversion Factor
1	<b>Force</b>	
	1 kgf	9.80665 N
		2.20462 lbf
2	<b>Power</b>	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	<b>Pressure</b>	
	1 psi	6.895 kPa
	1 kgf/cm <sup>2</sup>	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm <sup>2</sup>
	1 mm of Hg	1.3332 m-bar

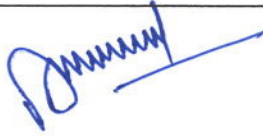
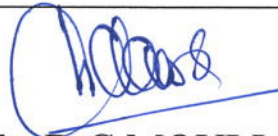



Machine- 532/1569	DIBYANKA DA IPL-DBS BRUSH CUTTER	COMMERCIAL (ICT)
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### 16. COMMENTS & RECOMMENDATIONS

- 16.1.** The maximum power was observed as 0.61 kW under natural ambient condition against the declared value of 1.4 kW.
- 16.2** The safety provisions, as mentioned at para 5.14, have been provided by the applicant for safety aspect of operators.
- 16.3** The equivalent mechanical vibration on engine cover was observed to the extent of 374 micron. This should be looked into for dampening the vibration.
- 16.4** A fuel on/off knob may be considered for providing in the fuel system of engine.
- 16.5** The chemical composition of blades of circular disc and two teeth blades do not conform to the requirement of IS 6025-1982 (HRC). This should be looked into for corrective action.
- 16.6** The provided labeling plate should be as per the requirement of the IS. Engine serial no and make, model of engine should be given with embossing on engine body instead of sticker during production level.
- 16.7 Adequacy of literature supplied with the machine:**  
The User's manual and spare parts list of brush cutter and engine in English were 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: 2019) for the sake of user & technical personnel.

### TESTING AUTHORITY

 <b>Er. PRAMOD YADAV</b> AGRICULTURAL ENGINEER	 <b>Er. D.C. MOULI</b> AGRICULTURAL ENGINEER
 <b>Dr. B.M. NANDEDE</b> DIRECTOR	

### 17. APPLICANT'S COMMENTS

We have noted your comments and recommendations and forwarded the same to our principal manufacturer, we will take corrective action as suggested by you.

