

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

संख्या/No: Machine-560/1611

माह/Month: April, 2024

THIS TEST REPORT IS VALID UPTO 31.03.2031



X1-POWER, X1-JX35, 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]

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Machine- 560/1611	X1-POWER, X1-JX35, BRUSH CUTTER	COMMERCIAL (ICT)
	THIS REPORT IS VALID UPTO 31.03.2031	

Manufacturer, (apa) : M/s Hangzhou joins Imp. & Exp. Co., Ltd.,
Room 809, Binxing Road, Changhe street,
Binjiang District, Hangzhou-3100052,
Zhejinag Province, **China**

Name of Applicant : M/s. BUSHRA IMPEX,
First Floor, Old No 98, New No11,4th
Cross, Kalasipalayam, New Extension,
Bangalore Urban, Karnataka-560002

X1-POWER, X1-JX35, BRUSH CUTTER

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Machine-
560/1611

X1-POWER, X1-JX35, BRUSH CUTTER
THIS REPORT IS VALID UPTO 31.03.2031

**COMMERCIAL
(ICT)**

Type of test : COMMERCIAL (ICT)
Period of test : 29.02.2024 to 20.04.2024
Test Report No. : **Machine-560/1611**
Month / Year of release : April,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 at applicant's site.
- 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 "**X1-POWER, X1-JX35, BRUSH CUTTER**". **This report is valid up to 31.03.2031, 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- 560/1611	X1-POWER, X1-JX35, BRUSH CUTTER	COMMERCIAL (ICT)
	THIS REPORT IS VALID UPTO 31.03.2031	






16. COMMENTS & RECOMMENDATIONS

- 16.1 The maximum power was observed as 0.80 kW under natural ambient condition against the declared value of 0.95 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 Max. Noise at operator's ear level was observed as 98 dB (A), which is on higher side, therefore suitable corrective action should be taken to reduce the noise level.
- 16.4 The equivalent mechanical vibration on engine cover was observed to the extent of 243 micron. This should be looked into for dampening the vibration.
- 16.5 A fuel on/off knob may be considered for providing in the fuel system of engine.
- 16.6 **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.

17. APPLICANT'S COMMENTS

There is no changes request from our end and proceed with existing draft for final report.

TESTING AUTHORITY

 PRAMOD YADAV AGRICULTURAL ENGINEER	 P.KAMALABAI SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	

