

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

संख्या/No: Machine-610/1667
माह/Month: July, 2024

THIS TEST REPORT IS VALID UP TO 30.06.2031



ROYAL KISSAN AGRO, RK-BC-UP52-SP 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.)

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Machine- 610/1667	ROYAL KISSAN AGRO, RK-BC-UP52-SP BRUSH CUTTER	COMMERCIAL (ICT)
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Name of Manufacturer, (apa) : M/s. Shaoxing Nosimon Machinery Co. Ltd.,
RM1203-6, Bldg 13 Intl Trade center,
Yumin Road, 1068, Keqiao steet, Keqiao
District, Shaoxing Zhejiang, **China.**

Name of Applicant : M/s. ROYAL KISSAN AGRO, C-1306,
Srushti Residency, Behind R.K. Tower
Dombival, Tata Power Road, Dombivli,
Thane, Maharashtra – 421202.

ROYAL KISSAN AGRO, RK-BC-UP52-SP BRUSH CUTTER

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सत्यमेव जयते

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

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Type of test : COMMERCIAL (ICT)
 Period of test : May, 2024 to June, 2024
 Test Report No. : Machine-610/1667
 Month / Year of release : July, 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 selected randomly through virtual mode by testing authority.
- 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 "ROYAL KISSAN AGRO, RK-BC-UP52-SP BRUSH CUTTER". This report is valid up to 30.06.2031, 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

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16. COMMENTS & RECOMMENDATIONS

- 16.1 The maximum power was observed as 1.64 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 operator's.
- 16.3 Max. Noise at operator's ear level was observed as 102 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 168 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 The chemical composition of straight blade is not as per requirement of the relevant code IS 6025:1982 (Reaffirmed 1999) & therefore it should be looked into for the corrective action.
- 16.7 **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 personnel.

TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	
Dr. B.M. NANDEDE DIRECTOR	

17. APPLICANT COMMENTS

Nil.

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