

THIS TESTREPORT IS VALID UPTO 30.11.2031



KISANKRAFT, KK-BC2-143 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]

Machine- 692/1784	KISANKRAFT, KK-BC2-143 BRUSH CUTTER THIS REPORT IS VALID UP TO 30.11.2031	COMMERCIAL (ICT)
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Manufacturer, (apa)

M/s. Linyi Dazhuang Machinery Co. Ltd.,
Linyi city, Shadong Province, **China**.

Name of Applicant

: M/s. KisanKraft Limited, Sri Huchhanna Tower,
No 4, 1st Main, 7-A Cross, Maruthi Layout,
Dasarahalli, HAF Post, Hebbal, Bangalore-
560024.

KISANKRAFT, KK-BC2-143 BRUSH CUTTER

Report No.: **Machine-692/1784**

Month: **December**

Year: **2024**



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: fmti-sr@nic.in

Type of test : COMMERCIAL (ICT)

Period of test : November, 2024 to December, 2024

Test Report No. : Machine-692/1784

Month / Year of release : December, 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 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 name "**KISAN KRAFT, KK-BC2-143 BRUSH CUTTER**". This report is valid up to **30.11.2031**, 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
3	1 Kw	1.35962 Ps
	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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17. COMMENTS & RECOMMENDATIONS

- 17.1 The maximum power was observed as 1.25 kW under natural ambient condition against the declared value of 1.6 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 **Noise measurement:**
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.
- 17.4 **Mechanical vibration:**
The equivalent mechanical vibration on engine cover was observed to the extent of 199 micron. This should be looked into for dampening the vibration.
- 17.5 **Hardness & Chemical analysis:**
The hardness & chemical analysis of Straight blade (2teeth) are 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 A fuel on/off knob may be considered for providing in the fuel system of engine.
- 17.7 **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:
- Name and address of manufacturer & applicant
 - Year of manufacturer
 - Country of origin
 - Rated RPM
- 17.8 **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.

Machine- 692/1784	KISANKRAFT, KK-BC2-143 BRUSH CUTTER THIS REPORT IS VALID UP TO 30.11.2031	COMMERCIAL (ICT)
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TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	



18. APPLICANT COMMENTS

Sl.no.	Para No.	Comments
1	17.1 to 17.7	We will take corrective action against the same.

ANNEXURE-I

FIELD PERFORMANCE RESULTS

Attachments used : Nylon rope
Usage : For cutting of weed grass

Sl. No.	Parameters	Test No. I	Test No. II
1	Date of test	21.11.2024	22.11.2024
2	Net test duration, (h)	7.00	7.00
3	Intensity of grass	Dense	
4	Av. height of grass, (cm)	54.2	52.6
5	Av. no. of grass per m ²	447	330
6	Av. mass of grass per m ² , (kg)	0.553	0.386
7	Area harvested, (ha/h)	0.048	0.050
8	Av. time required for one ha, (h)	20.83	20.00
9	Av. mass of grass harvested, (kg/h)	48.90	35.75
10	Av. fuel consumption:		
	- l/h	0.90	0.95
	- l/ha	18.7	19.0