

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

संख्या/No: H&TH/SRFMTTI,
ANANTAPUR/2025-26/15/15/1900
माह/Month: July, 2025

THIS TEST REPORT IS VALID UPTO 30.06.2032



KASEI, KZ-4000BC-PRO-2S 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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H&TH/SRFMTTI, ANANTAPUR/2025-26/ 15/15/1900	KASEI, KZ-4000BC-PRO-2S BRUSH CUTTER THIS REPORT IS VALID UP TO 30.06.2032	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Shandong Huasheng Pesticide Machinery Co., China.

Name of Applicant : M/s. Ratnagiri Impex Pvt Ltd,
Annapurna House, No. 1/1G, 7th Cross,
New Guddadahalli, Mysore Road,
Bengaluru – 560026.

KASEI, KZ-4000BC-PRO-2S BRUSH CUTTER

Report No.: H&TH/SRFMTTI, ANANTAPUR/2025-26/15/15/1900

Month: July

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सत्यमेव जयते

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Website: <http://srfmtti.dacnet.nic.in/>

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Type of test : COMMERCIAL (ICT)

Period of test : May, 2025 to June, 2025

Test Report No. : H&TH/SRFMTTI, ANANTAPUR/2025-26/15/15/1900

Month / Year of release : July, 2025

- 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 named "**KASEI, KZ-4000BC-PRO-2S BRUSH CUTTER**". This report is valid up to **30.06.2032**, 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	6.895kPa
	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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1	2	3	4	5
30	Literature	Operator manual, service manual and parts catalogue should be provided	Not provided	Does not conform

17. COMMENTS & RECOMMENDATIONS

- 17.1** The maximum power was observed as 1.27 kW under natural ambient condition against the declared value of 1.50 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** A fuel on/off knob may be considered for providing in the fuel system of engine.

17.3 Noise measurement:

Max. Noise at operator's ear level was observed as 90 dB (A), which is on higher side, there of resuitable 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 145 micron. This should be looked into for dampening the vibration.

17.5 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, inter alia, the following must be provided:

- i) Name and address of manufacturer
- ii) Country of origin
- iii) Year of manufacturer
- iv) Serial number
- v) Engine number
- vi) Engine HP
- vii) Rated RPM
- viii) Specific fuel consumption, (g/kWh)

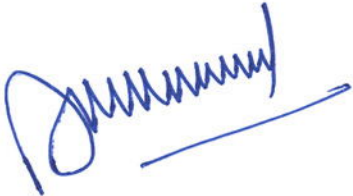
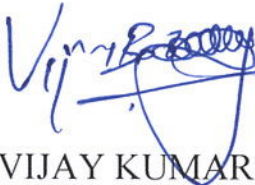

17.6 Adequacy of literature supplied with the machine:

User's manual is not provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users. The following literature should be provided.

- i) Service manual
- ii) Parts catalogue

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TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
 Dr. P.P.RAO DIRECTOR	



18. APPLICANT COMMENTS

We will discuss with our manufacturer to do the needful.

ANNEXURE-I

FIELD PERFORMANCE RESULTS

Attachments used : Nylon rope
Place of test : Institute
Usage : For cutting the grass

Sl. No.	Parameters	No. of tests	
		1	2
1	Date of test	09.05.2025	10.05.2025
2	Net test duration, (h)	6.00	7.00
3	Intensity of grass	Dense	
4	Av. height of grass, (cm)	0.531	0.525
5	Av. no. of grass per m ²	271	233
6	Av. mass of grass per m ² , (kg)	0.333	0.263
7	Area harvested, (ha/h)	0.062	0.065
8	Av. time required for one ha, (h)	16.13	15.38
9	Av. mass of grass harvested, (kg/h)	34.99	27.20
10	Av. fuel consumption:		
	- l/h	0.82	0.85
	- l/ha	13.22	13.08