

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

संख्या/No:H&TH/SRFMTTI,  
ANANTAPUR/2025-26/01/01/1851

COMMERCIAL TEST REPORT(INITIAL) माह/Month: April, 2025

THIS TEST REPORT IS VALID UPTO 31.03.2032



**LAVIN, LE-200S 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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<b>H&amp;TH/SRFMTTI, ANANTAPUR/2025-26/ 01/01/1851</b>	<b>LAVIN, LE-200S BRUSH CUTTER THIS REPORT IS VALID UP TO 31.03.2032</b>	<b>COMMERCIAL (ICT)</b>
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Manufacturer, (apa) : M/s. Feal International Company Limited  
No .170 Huaxia Road, Greatwall Industry Zone,  
Yongkang, Zhejiang, **China.**

Name of Applicant : M/s. LAVIN ENTERPRISS  
Near BWSSB Quarters, No. 213/47, 2nd Cross  
Pipeline Road, Kaveri Nagar, Bengaluru Urban,  
Karnataka-560079.

### **LAVIN, LE-200S BRUSH CUTTER**

Report No.: **H&TH/SRFMTTI, ANANTAPUR/2025-26/01/01/1851**

Month: **April**

Year: **2025**



सत्यमेव जयते

**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
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**H&TH/SRFMTTI,  
ANANTAPUR/2025-26/  
01/01/1851**

**LAVIN, LE-200S BRUSH CUTTER  
THIS REPORT IS VALID UP TO  
31.03.2032**

**COMMERCIAL  
(ICT)**

Type of test : COMMERCIAL (ICT)

Period of test : January, 2025 to February, 2025

Test Report No. : **H&TH/SRFMTTI, ANANTAPUR/ 2025-26/01/01/1851**

Month / Year of release : April, 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 "**LAVIN, LE-200S BRUSH CUTTER**". This report is valid up to **31.03.2032**, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

### SELECTED CONVERSIONS

S. No.	Units	Conversion Factor
<b>1</b>	<b>Force</b>	
	1 kgf	9.80665 N
		2.20462 lbf
<b>2</b>	<b>Power</b>	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 Kw	1.35962 Ps
<b>3</b>	<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



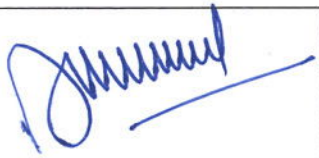




## 17. COMMENTS & RECOMMENDATIONS

- 17.1** The maximum power was observed as 1.52 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** A fuel on/off knob may be considered for providing in the fuel system of engine.
- 17.4 Noise measurement:**  
Max. Noise at operator's ear level was observed as 97dB (A), which is on higher side, therefore suitable corrective action should be taken to reduce the noise level.
- 17.5 Mechanical vibration:**  
The equivalent mechanical vibration on engine cover was observed to the extent of 177 micron. This should be looked into for dampening the vibration.
- 17.6 Hardness & Chemical analysis:**  
The hardness & chemical composition of Circular Disc 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.
- 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:  
i) Address of manufacturer  
ii) Engine number  
iii) Specific fuel consumption, (g/kWh)
- 17.8 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

H&TH/SRFMTTI, ANANTAPUR/2025-26/ 01/01/1851	LAVIN, LE-200S BRUSH CUTTER THIS REPORT IS VALID UP TO 31.03.2032	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'S COMMENTS

We consider your comments & recommendations seriously & inform our management & manufacturing department to immediately take necessary corrective actions to rectify the issues according to your comments & recommendations.

### ANNEXURE-I

#### FIELD PERFORMANCE RESULTS

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

Sl. No.	Parameters	No. of tests	
		I	II
1	Date of test	05.02.2025	06.02.2025
2	Net test duration, (h)	6.00	3.50
3	Intensity of grass	Dense	
4	Av. height of grass, (cm)	61.4	60.0
5	Av. no. of grass per m <sup>2</sup>	234	211
6	Av. mass of grass per m <sup>2</sup> , (kg)	0.226	0.220
7	Area harvested, (ha/h)	0.060	0.060
8	Av. time required for one ha, (h)	16.67	16.67
9	Av. mass of grass harvested, (kg/h)	25.13	24.06
10	Av. fuel consumption:		
	- l/h	0.80	0.85
	- l/ha	13.33	14.17