

THIS TEST REPORT IS VALID UPTO 31.12.2031



**SRI VENKATESWARA, SVT-1150D POWER WEEDER**



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 (आ. प्र.)

Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Machine- 721/1823	SRI VENKATESHWARA, SVT-1150D POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer, (apa)

: M/s Joins Hangzhou Joins Imp & Exp.,  
Co. Ltd., Room 809, No. 1451, Binxing  
Road, Change Street. Binxing District  
Hangzhou, 310052, Zhejiang Province  
China.

Applicant

: M/s. Sri Venkateshwara Engineering  
Works. Gollarahalli, Harihar Main Road,  
Honnalli (TQ), Davanagere (D),  
Karnataka-577217.

### SRI VENKATESHWARA, SVT-1150D POWER WEEDER

Report no.: Machine-721/1823

Month: January

Year: 2025



**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
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Machine- 721/1823	SRI VENKATESHWARA, SVT-1150D POWER WEEDER	COMMERCIAL (ICT)
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Type of test : COMMERCIAL (ICT)

Period of test : December, 2024 to January, 2025

Test Report No. : Machine-721/1823

Month / Year of release : January, 2025

- The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- The data given in this report pertain to the particular machine randomly selected by testing authority through virtual mode
- The results presented in this report do noting any way, attribute to the durability of the machine.
- 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.).
- This is a report on Commercial Test of Power Weeder named "SRI VENKATESHWARA, SVT-1150D POWER WEEDER". This report is valid up to 31.12.2031, 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	<b>Force</b>	
	1 kgf	9.80665 N
		2.20462 lbf
2	<b>Power</b>	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	<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



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## 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 6.56 kW under natural ambient condition against the declared value of 6.5 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 333 g/kWh against the declared value of 310 g/kWh.
- 18.1.3 Back up torque of engine was observed as 5.58 % against declared value of 12%.
- 18.1.4 Max. torque was observed as 21.93 Nm against the declared value of 12 Nm.

### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 453 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

### 18.3 Air cleaner oil pullover:

The percentage of air cleaner oil pull over was recorded as 0.32 to 1.30% respectively against the declaration of 0.20%. The percentage of air cleaner oil pull over was considered very high and this should be looked into for corrective action.

### 18.4 Chemical:

The chemical of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

### 18.5 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, interlaid, the following must be provided:

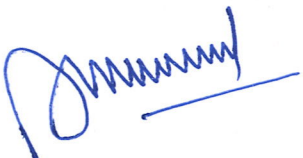
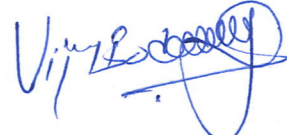

- i) Address of the manufacturer & applicant
- ii) Country of origin
- iii) Year of manufacturer
- iv) Specific Fuel Consumption (kg/kWh)

### 18.6 Technical literature:

User's manual, service catalogue, warranty certificate and parts catalogue of power weeder was provided for reference during the test. It is However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

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### TESTING AUTHORITY

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



19. Applicant's Comments  
Nill