

**THIS TEST REPORT IS VALID UP TO 31.01.2032**



**LISHANTH,S R-750 PTO PLUSPOWER WEEDER**



सत्यमेव जयते

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**

ट्रेक्टर 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-  
730/1832**

**LISHANTH, S R-750 PTO PLUS POWER WEEDER**

**COMMERCIAL  
(ICT)**

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**Manufacturer**

: M/s. Chongqing Senci Wugu Agricultural Machinery Import & Export Co. Ltd., No. 8, Longfei Road, Dongcheeeeeng Street, Tongliang Town, Chongqing, **China.**

**Applicant,**

: M/s. S.R. Farm Equipments, Sri Siddeshwara Complex, Near Veerashaiva Choultry, J C Road, Tumakuru – 572 101, Karnataka.

**LISHANTH, S R-750 PTO PLUS POWER WEEDER**

Report no.: **Machine-730/1832**

Month: **February**

Year: **2025**



**Government of India**

**Ministry of Agriculture and Farmers Welfare**

**Department of Agriculture and Farmers Welfare**

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<b>Machine-730/1832</b>	<b>LISHANTH, S R-750 PTO PLUS POWER WEEDER</b>	<b>COMMERCIAL (ICT)</b>
	<b>THIS TEST REPORT IS VALID UP TO 31.01.2032</b>	



Type of test : COMMERCIAL (ICT)

Period of test : December, 2024 to January, 2025

Test Report No. : **Machine-730/1832**

Month / Year of release : February, 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 Power Weeder named **“LISHANTH, S R - 750 PTO PLUS POWER WEEDER”**. This report is valid up to **31.01.2032**, 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

<b>Machine- 730/1832</b>	<b>LISHANTH, S R-750 PTO PLUS POWER WEEDER</b>	<b>COMMERCIAL (ICT)</b>
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## 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The maximum and rated power was observed as 5.24 kW under natural ambient condition against the declared value of 5.2 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 408 g/kWh against the declared value of 420 g/kWh.
- 18.1.3 Back up torque of engine was observed as 7.87% against declared value of 10%.
- 18.1.4 Max. torque was observed as 14.94 Nm against the declared value of 15.0 Nm.

### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 469 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

### 18.3 Hardness & Chemical composition:

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

### 18.4 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) Country of origin
- iii) Engine HP
- iv) Engine rated RPM
- v) Specific fuel consumption, (g/kWh)

### 18.5 Technical literature:

User's manual is 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.

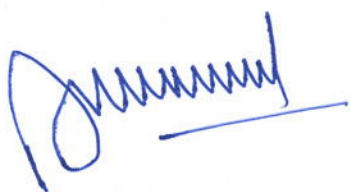
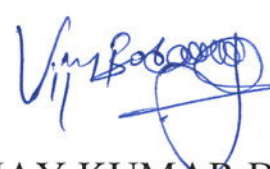

The following literature should be provided.

- i) Service manual
- ii) Parts catalogue



Machine- 730/1832	LISHANTH, S R-750 PTO PLUS POWER WEEDER	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	



### 19. APPLICANT COMMENTS

Reference	Comments
18.1.2 & 18.1.4	We will inform it to our manufacturer for making necessary possible changes in the machine.
18.2	We will insist strongly to the manufacturer to put some vibration Dampeners.
18.3	We will make some changes in blade material to meet the requirement of IS6690:1981 (Reaffirmed 2022).
18.4	Your suggestion is noted, we will modify the labelling plate of machine as per your recommendations.
18.5	We will brought out the literature as per IS 8132:1999 (Reaffirmed 2004)