

THIS TEST REPORT IS VALID UP TO 31.01.2032



SR TRADERS, 750 K 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 (आं. प्र.)

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](mailto:fmti-sr@nic.in)



Machine-  
728/1830

**S R TRADERS, 750 K POWER WEEDER**  
**THIS TEST REPORT IS VALID UP TO 31.01.2032**

**COMMERCIAL**  
**(ICT)**

Manufacturer

: M/s. Chonqing Shineray Agri Machinery Co Ltd., 8-Shinery Road, Hangpu Town, Juilongpu Dist- Chonqing, **China**.

Applicant,

: M/s. S.R. TRADERS, Mysuru Main Road, Near Basaveshwara Community Hall, Panjanhalli, Gundelpet – 571 111. Karnataka.

**SR TRADERS, 750 K POWER WEEDER**

Report no.: **Machine-728/1830**

Month: **February**

Year: **2025**



सत्यमेव जयते

**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](mailto:fmti-sr@nic.in)

|                              |   |                             |
|------------------------------|---|-----------------------------|
| <b>Machine-<br/>728/1830</b> | <b>S R TRADERS, 750 K POWER WEEDER</b>            | <b>COMMERCIAL<br/>(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-728/1830**  
 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 through virtual mode.
- 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 “**S R TRADERS, 750 K 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)<br>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-<br/>728/1830</b> | <b>S R TRADERS, 750 K POWER WEEDER</b>            | <b>COMMERCIAL<br/>(ICT)</b> |
|                              | <b>THIS TEST REPORT IS VALID UP TO 31.01.2032</b> |                             |

## 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The maximum and rated power was observed as 3.83 kW under natural ambient condition against the declared value of 3.8 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 402 g/kWh against the declared value of 420g/kWh.
- 18.1.3 Back up torque of engine was observed as 9.89% against declared value of 10%.
- 18.1.4 Max. torque was observed as 11.20 Nm against the declared value of 12Nm.

### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 476 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 0.00 to 0.57 % 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 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.

### 18.5 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) Country of origin

### 18.6 Technical literature:


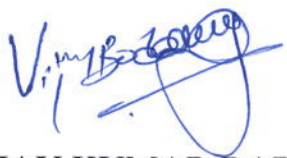

User's manual is provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

The following literature should be provided.

- i) Service manual
- ii) Parts catalogue

|                      |  |                     |
|----------------------|--|---------------------|
| Machine-<br>728/1830 | S R TRADERS, 750 K POWER WEEDER            | COMMERCIAL<br>(ICT) |
|                      | THIS TEST REPORT IS VALID UP TO 31.01.2032 |                     |

### TESTING AUTHORITY

|  |  |
|--|--|
| <br>Er. PRAMOD YADAV<br>AGRICULTURAL ENGINEER | <br>Er. VIJAY KUMAR BADAYA<br>SENIOR AGRICULTURAL ENGINEER |
| <br>Dr. B.M. NANDEDE<br>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            | Your suggestion is noted, we will modify the Air cleaner of machine as per your recommendations and requirements. |
| 18.4            | We will make some changes in blade material to meet the requirement of IS6690:1981 (Reaffirmed 2022).             |
| 18.5            | Your suggestion is noted, we will modify the labelling plate of machine as per your recommendations.              |
| 18.6            | We will be brought out the literature as per IS 8132 : 1999 (Reaffirmed 2004).                                    |