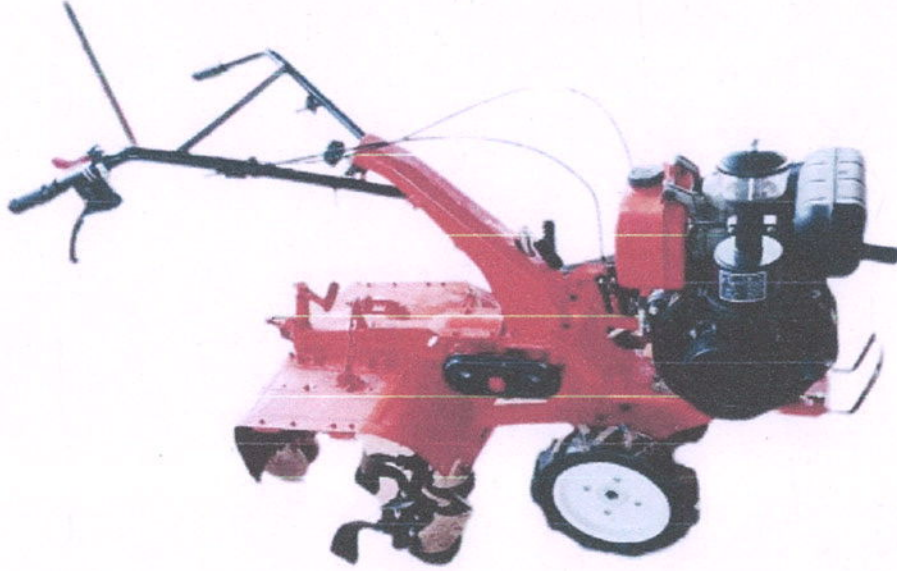


THIS TESTREPORT IS VALID UPTO 31.01.2032



SR TRADERS, 280 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 (आ. प्र.)

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

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Machine-
727/1829

S R TRADERS, 280 K POWER WEEDER
THIS TEST REPORT IS VALID UP TO 31.01.2032

COMMERCIAL
(ICT)

Manufacturer, (apa)

: M/s. Chongqing Shineray Agri Machinery
Co. LTD., 8- Shineray Road, Hangpu
Town, Jhlongpu, Dist- Chongqing, **China**.

Applicant

: M/s. S R Traders,
Mysore Main Road, Near Basaveswara
Community Hall, Panjanhalli, Gundelpet-
571111, Karnataka.

S R TRADERS, 280 K POWER WEEDER

Report no.: **Machine-727/1829**

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: fnti-sr@nic.in

Machine- 727/1829	S R TRADERS, 280 K POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.01.2032	

Type of test : COMMERCIAL (ICT)

Period of test : December, 2024 to January, 2025

Test Report No. : Machine-727/1829

Month / Year of release : February, 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.
- 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 "S R TRADERS, 280 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
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	6.895 kPa
	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

Machine- 727/1829	S R TRADERS, 280 K POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.01.2032	

1	2	3	4	5
21	Provision for easy start of engine	Must be provided	Provided	Conforms
22	Provision for Shield / cover to prevent flying mud & stone from rotor	Must be provided	Provided	Conforms
23	Depth control mechanism	Must be provided	Provided	Conforms
24	Provision for transport wheels	Must be provided	Provided	Conforms
25	Provision for cover on exhaust	Must be provided	Provided	Conforms
26	Direction of exhaust emission away from operator	Must be provided	Provided	Conforms
27	Marking/labeling of machine	The labeling plate should be riveted on the body of the machine having name and address of manufacturer & applicant, country of origin, make, model, year of manufacturer, serial number, engine number, engine HP, rated rpm & SFC	Provided	Conforms
27	Literature	Operator manual, service manual and parts catalogue should be provided	Not Provided	Does not conforms

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 4.55 kW under natural ambient condition against the declared value of 4.5 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 394 g/kWh against the declared value of 320 g/kWh.
- 18.1.3 Back up torque of engine was observed as 4.88% against declared value of 10%.
- 18.1.4 Max. Torque was observed as 25.32 Nm against the declared value of 15 Nm.

Machine- 727/1829	S R TRADERS, 280 K POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.01.2032	

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 854 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.


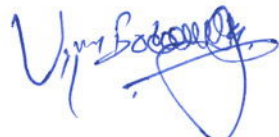

18.3 The Hardness and Chemical Composition of Blade

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.

18.4 Technical literature:

User's manual, service catalogue, warranty certificate and parts catalogue of power weeder was not 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.

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	We will be brought out the literature as per IS 8132 : 1999 (Reaffirmed 2004).