

THIS TEST REPORT IS VALID UPTO 31.07.2031



**KRISHITEK INDUSTRIES PRIVATE LIMITED, POWERTEK 7CR
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]

Machine- 637/1698	KRISHITEK INDUSTRIES PRIVATE LIMITED, POWERTEK 7CR POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.07.2031	

Manufacturer, (apa) : M/s. Chongqing Master Machinery Co., Limited
Add: No. 17, Jinyuan Road, Luohuang Industrial
park B Area, Jiangjin, District, Chongqing, -
402283, China.

Applicant : M/s. Krishitek Industries PVT. LTD. Plot no.22,
Prime Industrial Park Santej Taluka Kalol,
Gandhinagar, Ahmedabad, Santej, Gujarat-382721,
India.

**KRISHITEK INDUSTRIES PRIVATE LIMITED, POWERTEK 7CR
POWER WEEDER**

Report no.: Machine-637/1698

Month: August

Year: 2024

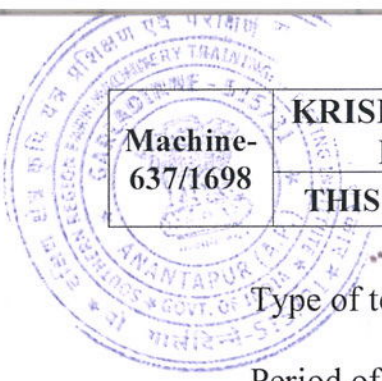


सत्यमेव जयते

**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



Machine-637/1698	KRISHITEK INDUSTRIES PRIVATE LIMITED, POWERTEK 7CR POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.07.2031	

Type of test : COMMERCIAL (ICT)
Period of test : July, 2024 to August, 2024
Test Report No. : **Machine-637/1698**
Month / Year of release : August, 2024

- 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 anyway, 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 **"KRISHITEK INDUSTRIES PRIVATE LIMITED, POWERTEK 7CR POWER WEEDER"**. This report is valid up to 31.07.2031, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023

SELECTED CONVERSIONS

Sl. 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-
637/1698

**KRISHITEK INDUSTRIES PRIVATE LIMITED,
POWERTEK 7CR POWER WEEDER**

**COMMERCIAL
(ICT)**

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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 of mud and 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 of the machine, Address of manufacturer, Address of applicant, Country of origin, Make, Model, Year of manufacturer, Size of the machine, Serial number, Engine number, Engine HP, Rated rpm, SFC	Address of manufacturer not provided	Does not conform
28	Literature	Operator manual, service manual and parts catalogue should be provided	Provided	Conforms

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 4.06 kW under natural ambient condition against the declared value of 5.3 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 455 g/kWh against the declared value of 374 g/kWh.
- 18.1.3 Back up torque of engine was observed as 10.89 % against declared value of 7%.
- 18.1.4 Max. torque was observed as 11.90 Nm against the declared value of 11.5 Nm.

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18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 321 micron, which is on higher side. This should be given top priority for corrective action.

18.3 Marking/labeling:

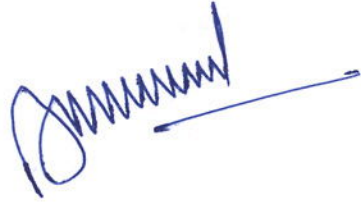


The labeling plate does not reveal all the required information. It is therefore recommended that a suitable labeling plate covering all essential components, inter alia, the following must be provided:

- i) Address of the manufacturer

18.4 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.

TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	
Dr. B.M. NANDEDE DIRECTOR	 

19. APPLICANT COMMENTS

-Nil-