

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)  
COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: ICE/SRFMTTI,  
ANANTAPUR/2025-26/09/09/1869  
माह/Month: May, 2025

**THIS TEST REPORT IS VALID UP TO 30/04/2032**



**DIVYA SHAKTI, DS-300P 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.)**

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ICE/SRFMTTI, ANANTAPUR/2025-26/ 08/08/1868	DIVYA SHAKTI, DS-200P POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 30.04.2032	

Manufacturer, (apa) : M/s. Chongqing Shinfield Import & Export Trading Co. Ltd., High-Tech Industrial Zone, Dazu District, Chongqing, **China**.

Applicant : M/s. Chirag Corporation  
320, Marshall House 33/1,  
NS Road, Kolkata-700001, West Bengal.

**DIVYA SHAKTI, DS-200P POWER WEEDER**

Report no.: ICE/SRFMTTI, ANANTAPUR/2025-26/08/08/1868

Month: May

Year: 2025



सत्यमेव जयते

**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
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<b>ICE/SRFMTTI, ANANTAPUR/2025-26/ 08/08/1868</b>	<b>DIVYA SHAKTI, DS-200P POWER WEEDER</b>	<b>COMMERCIAL (ICT)</b>
	<b>THIS TEST REPORT IS VALID UP TO 30.04.2032</b>	

Type of test : COMMERCIAL (ICT)

Period of test : April, 2025

Test Report No. : **ICE/SRFMTTI, ANANTAPUR/2025-26/08/08/1868**

Month / Year of release : May, 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 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 “**DIVYA SHAKTI, DS-200P POWER WEEDER**”. This report is valid up to **30.04.2032, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.**

### SELECTED CONVERSIONS

Sl. 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

ICE/SRFMTTI, ANANTAPUR/2025-26/ 08/08/1868	DIVYA SHAKTI, DS-200P POWER WEEDER	
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## 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 4.63 kW under natural ambient condition against the declared value of 4.3 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 401/kWh against the declared value of 420 g/kWh.
- 18.1.3 Back up torque of engine was observed as 6.69 % against declared value of 10%.
- 18.1.4 Max. torque was observed as 13.07 Nm against the declared value of 13 Nm.

### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 303 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

### 18.3 Hardness and chemical composition:

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

### 18.4 Technical literature:

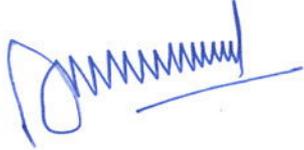
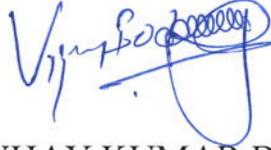
User's manual is provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

The following literature should be provided.

- i) Service manual
- ii) Parts catalogue

ICE/SRFMTTI, ANANTAPUR/2025-26/ 08/08/1868	DIVYA SHAKTI, DS-200P 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'S COMMENTS

Reference No.	Applicant's comments
18.1.1 to 18.1.4	We will make a corrective action in future product.
18.2	We will insist strongly to the manufacturer to put some vibration dampeners to reduce the Mechanical vibration.
18.3	We will make a corrective action in future product.
18.4	We will be brought out the literature as per IS 8132:1999 (Reaffirmed 2004).