

**THIS TEST REPORT IS VALID UP TO 30.04.2032**



**OSTRICH, 900P 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/ 2025-26/07/07/1865	OSTRICH, 900P POWER WEEDER THIS TEST REPORT IS VALID UP TO 30.04.2032	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Chongqing Diligence Science And Technology Co. Ltd., 4-2, No. 1, Chunhui South Road, Dadukou District, Chongqing, China.

Applicant : M/s. Ostrich Village Mechanize,  
Flat No. 303, Satya Slim Apartment,  
Stambalagaruvu, 2<sup>nd</sup> Lane, Guntur – 522 006  
Andhra Pradesh.

### OSTRICH PW 900 P POWER WEEDER

Report No.: ICE/SRFMTTI, ANANTAPUR/2025-26/07/07/1865

Month: May

Year: 2025



**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
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**Southern Region Farm Machinery Training and Testing Institute**  
**Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)**  
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ICE/SRFMTTI,  
ANANTAPUR/  
2025-26/07/07/1865

**OSTRICH, 900P POWER WEEDER**  
**THIS TEST REPORT IS VALID UP TO**  
**30.04.2032**

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

Type of test : COMMERCIAL (ICT)

Period of test : April, 2025

Test Report No. : ICE/SRFMTTI, ANANTAPUR/  
2025-26/07/07/1865

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 **"OSTRICH, 900 P 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
1	<b>Force</b>	
	1 kgf	9.80665 N
		2.20462 lbf
2	<b>Power</b>	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	<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



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1	2	3	4	5
21	Provision for easy start of engine	Must be provided	Not 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	Away from the operator	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	Country of Origin, Engine HP, SFC	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 4.5 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 421/kWh against the declared value of 350 g/kWh.
- 18.1.3 Back up torque of engine was observed as 3.95 % against declared value of 7%.
- 18.1.4 Max. torque was observed as 12.37 Nm against the declared value of 12 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 280 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 Analysis of Rotary Blade

The Hardness and 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.

#### 18.3 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, interlaid, the following must be provided:

- i) Country of Origin
- ii) Engine HP
- iii) Specific fuel consumption (g/kWh)


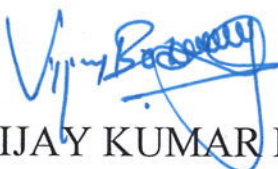


#### 18.4 Technical literature:

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

### TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
<div style="text-align: center;">   Dr. B.M. NANDEDE  DIRECTOR </div> 	

### 19. APPLICANTS COMMENTS

We have gone through the comments and recommendation we will do corrective action on future lot.

SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR (A.P.)	Page 30 of 31
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