

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

संख्या/No:Machine-745/1848

COMMERCIAL TEST REPORT (INITIAL)

माह/Month: March, 2025

**THIS TEST REPORT IS VALID UP TO 29.02.2032**



**AANSHI IMPEX, AANSHI PW900D 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: [fnti-sr@nic.in](mailto:fnti-sr@nic.in)

Machine-745/1848	AANSI IMPEX, AANSI PW900D POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer, (apa)

: M/s. Chongqing Haofa Machinery  
Manufacturing Co. Ltd, Sanjiao  
Industrial Park, Yongchuan District,  
Chongqing, China

Applicant

: M/s. Aanshi Impex,  
Plot No 8, Pragati Ind. Area, B/H  
Shailesh Forging, Ravki, Rajkot-  
360004, Gujrat

### AANSI IMPEX, AANSI PW900D POWER WEEDER

Report no.: Machine-745/1848

Month: March

Year: 2025

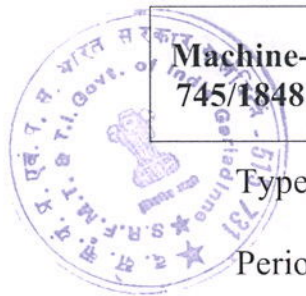


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Machine- 745/1848	AANSHI IMPEX, AANSHI PW900D POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 29.02.2032	

Type of test : COMMERCIAL (ICT)

Period of test : January, 2025 to February, 2025

Test Report No. : Machine-745/1848

Month / Year of release : March, 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 through virtual mode
- 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 "AANSHI IMPEX, AANSHI PW 900D POWER WEEDER". This report is valid up to 29.02.2032, 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 <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
19	Provision for handle rotation	Must be provided	Not Provided	Conforms
20	Provision for emergency stop of engine	Must be provided	Provided	Conforms
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	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	Address of manufacturer, Country of origin, Year of manufacturer, SFC are 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 6.18 kW under natural ambient condition against the declared value of 6.5 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 313 g/kWh against the declared value of 310 g/kWh.
- 18.1.3 Back up torque of engine was observed as 8.53% against declared value of 12%.
- 18.1.4 Max. Torque was observed as 17.81Nm 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 334 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

**18.3 Chemical analysis:**

The 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.

**18.4 Marking /labeling:**


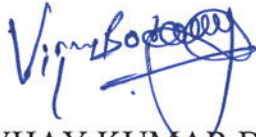

The labeling plate does not reveal all the required information. It is therefore recommended that a suitable labeling plate covering all essential components, interlaid, the following must be provided:

- Address of the manufacturer
- Country of origin
- Year of manufacturer
- Specific Fuel Consumption (kg/kWh)

**18.5 Technical literature:**

User's manual, service catalogue, warranty certificate and parts catalogue of power weeder was 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'S COMMENTS**

-NIL-

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