

THIS TEST REPORT IS VALID UPTO 31.05.2031



ICS, ICS - PW 1200 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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Website: <http://srfmtti.dacnet.nic.in/>

Machine- 597/1654	<b>ICS, ICS - PW 1200 POWER WEEDER.</b>	<b>COMMERCIAL (ICT)</b>
	<b>THIS TEST REPORT IS VALID UP TO 31.05.2031</b>	

Manufacturer, (apa) : M/s. ICS MERCHANDISE PRIVATE LIMITED,  
# 31, Rudra's Arcade, 60 Feet, Mallathahalli Lake  
Road, NGEF Layout, Mallathahalli, Bangalore-  
560056, India.

Applicant : The Manufacturer

**ICS, ICS - PW 1200 POWER WEEDER.**

Report no.: Machine-597/1654

Month: **June**

Year: **2024**

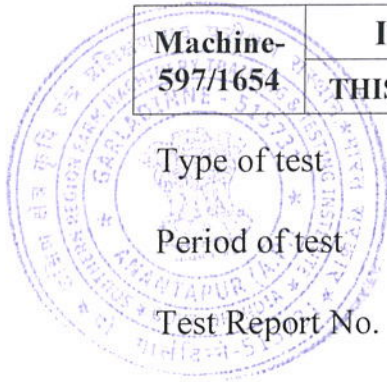


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Machine- 597/1654	ICS, ICS - PW 1200 POWER WEEDER.	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.05.2031	

Type of test : COMMERCIAL (INITIAL)  
Period of test : March, 2024 to June, 2024  
Test Report No. : **Machine-597/1654**  
Month / Year of release : June, 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 “**ICS, ICS-PW 1200 POWER WEEDER**”. This report is valid up to **31.05.2031, 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	<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

Machine- 597/1654	ICS, ICS - PW 1200 POWER WEEDER.	COMMERCIAL (ICT)
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### 18. COMMENTS & RECOMMENDATIONS

#### 18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 3.8 kW under natural ambient condition against the declared value of 3.7 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 430 g/kWh against the declared value of 380 g/kWh.
- 18.1.3 Back up torque of engine was observed as 10 % against declared value of 10 %.
- 18.1.4 Max. torque was observed as 11.48 Nm against the declared value of 12.4 Nm.

#### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 580 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

#### 18.3 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) Name of the machine
- ii) Country of origin
- iii) Engine number
- iv) SFC




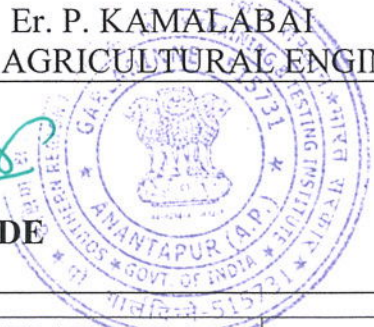
#### 18.4 Technical literature:

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. P. KAMALABAI SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	
	
SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)	Page 29 of 30