

THIS TEST REPORT IS VALID UPTO 31.10.2031



ICS, ICS-1050P 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

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Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Machine- 676/1750	ICS, ICS-1050 P POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.10.2031	



Manufacturer, (apa) : M/S. ICS MERCHANDISE PVT LTD
No. 3679, 6th Block, Sir M.V Layout,
Near Oxford Degree & Pu College,
Bangalore-560060, Karnataka.

Applicant : The Manufacturer

ICS, ICS-1050 P POWER WEEDER

Report no.: Machine-676/1750

Month: November

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.)
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**SOUTHERN REGION FARM MACHINERY TRAINING &
TESTING INSTITUTE, ANANTAPUR (A.P.)**

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Machine- 676/1750	ICS, ICS-1050 P POWER WEEDER	COMMERCIAL (ICT)
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Type of test : COMMERCIAL (ICT)
Period of test : September 2024 to October, 2024
Test Report No. : **Machine-676/1750**
Month / Year of release : November, 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 -1050 P POWER WEEDER**". This report is valid up to **31.10.2031**, **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- 676/1750		ICS, ICS-1050 P 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 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 and SFC are not provided.	Does not conform	
28	Literature	Operator manual, service manual and parts catalogue should be provided	Not Provided	Does not conform	

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 6.50 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 405 g/kWh against the declared value of 420 g/kWh.
- 18.1.3 Back up torque of engine was observed as 15.4 % against declared value of 10%.
- 18.1.4 Max. torque was observed as 21.09 Nm against the declared value of 15.8 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 278 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Hardness:

The hardness 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:

- i) Country of origin
- ii) Specific fuel consumption (g/kWh)




18.5 Technical literature:

User's manual is not 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	
Dr. B.M. NANDEDE DIRECTOR	 

19.APPLICANT COMMENTS

We will follow all the instruction and suggestion given. We already informed to our production people to rectify the solution. We are ready to rectify the problems raised by testing centre.