

THIS TEST REPORT IS VALID UP TO 31.08.2028



ICS –150D 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://srfmmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in

Tele.: 08551-286441

Machine- 516/1542	ICS –150D POWER WEEDER	COMMERCIAL
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Name of assemblers : M/s. ICS MERCHANDISE PRIVATE LIMITED
#31, Rudra's Arcade, 60 Feet,
Mallathahalli Lake Road, NGEF Layout,
Mallathalli, Bangalore- 560 056.

Applicant : M/s. ICS MERCHANDISE PRIVATE LIMITED
#31, Rudra's Arcade, 60 Feet,
Mallathahalli Lake Road, NGEF Layout,
Mallathalli, Bangalore- 560 056.

ICS – 150D POWER WEEDER

Report No. : **Machine-516/1542**

Month: **September**

Year: **2023**



सत्यमेव जयते

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16.2 Clutch: Observation

Any marked wear in clutch friction plate : None
Condition of clutch release bearing. : Normal
Condition of pilot bearing : Normal
Condition of pressure plate : Normal
Presence of oil and water in clutch housing : None

16.3 Transmission gears:

All the components of the primary and secondary gear transmission were dismantled, inspected and found that all the parts are in normal working condition.

16.4 Rotary drive unit:

All the components of the rotary drive were dismantled, inspected and found that all the parts are in normal working condition.

17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

- 17.1.1 The maximum power and rated power were observed as 9.0 kW under natural ambient condition against the declared value of 6.7 kW.
 - 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 347 g/kWh against the declared value of 374 g/kWh.
 - 17.1.3 Max. torque was observed as 26.25 Nm against the declared value of 22 Nm.
 - 17.1.4 Back up torque of engine was observed as 9.83%, against the declared value of 10%.
- 17.2** Max. Noise at operator's ear level was observed as 97 dB (A), which is on higher side therefore, it should be looked for corrective action.




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- 17.3 The amplitude of mechanical vibration on most of the assemblies of power weeder was observed as higher side and to the extent of maximum 318 microns, which is on higher side. Therefore necessary corrective action to dampen the vibration should be taken.
- 17.4 The hardness of rotor blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2012). This should be looked into for corrective action.
- 17.5 Chemical composition of blade of Carbon is not conforming the requirement of IS 6690:1981 (Reaffirmed 2012). This should be looked into for corrective action.
- 17.6 **Technical literature:**
The Owner's manual and spare parts manuals of power weeder were supplied with the test sample for reference during the test. It is, however, recommended that same may be revised and brought out in Hindi & other regional languages as per IS8132:1999 (Reaffirmed 2004) for the sake of users & technical personnel's.

18. APPLICANT'S COMMENT

With immediate effect we will inform to the production unit to take care the corrective actions before dispatching the material from the factory.

TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. D.C. MOULI AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	

