

व्यावसायिकपरीक्षणरिपोर्ट (प्रारंभिक)  
COMMERCIAL TEST REPORT  
(INITIAL)

संख्या/No:Machine-500/1511  
माह:/Month: June, 2023  
Validity: 31.05.2028



**DFARM TOOLS D-955 POWER WEEDER**



सत्यमेव जयते

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**

ट्रेक्टर नगर, गार्लदिन्ने - 515 731, जिला: अनंतपुर (आं. प्र.)

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

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<b>Machine-500/1511</b>	<b>DFARM TOOLS D-955 POWER WEEDER</b>	<b>COMMERCIAL ICT</b>
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Manufacturer : M/S DATTAPRABHU ENGINEERING & FABRICATION WORKSHOP, , Dahegaon Rangari Dist Nagpur Tah Saoner, Maharashtra-441113

Applicant : M/S DATTAPRABHU ENGINEERING & FABRICATION WORKSHOP, , Dahegaon Rangari Dist Nagpur Tah Saoner, Maharashtra-441113

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**16.2**

**Clutch:**

- 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 gears of the transmission system were found in normal condition.

**16.4**

**Rotary drive unit:**

The rotary drive unit was dismantled and all the components were found in normal condition.

**17. COMMENTS & RECOMMENDATIONS**

**17.1 Engine Performance:**

17.1.1 The maximum power and rated power were observed as 6.6 kW under natural ambient condition against the declared values of 6.7&6.1 kW respectively.

17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 300 g/kWh against the declared value of 300g/kWh.

17.1.3 Max. Torque was observed as 22.50 Nm against the declared value of 24 Nm.

17.1.4 Back up torque of engine was observed as 6.68 %, against the declared value of 12%. This should be looked into for corrective action.



**17.3** The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 319\* microns, which is on higher side. Therefore corrective action to reduce the vibration should be taken.

**17.4** The hardness of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2017). This should be looked into for corrective

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action.

**TESTING AUTHORITY**

D.C.MOULI AGRICULTURAL ENGINEER	
P.KAMALABAI SENIOR AGRICULTURAL ENGINEER DIRECTOR/(I/C)	

**18. APPLICANT'S COMMENTS**

As per your recommendation and suggestions, the necessary action will be taken and will be incorporate in further productions models