



**SHER JRF 650 POWER WEEDER**



भारत सरकार

**Government of India**

कृषि एवं किसान कल्याण मंत्रालय

**Ministry of Agriculture and Farmers Welfare**

कृषि, सहकारिता 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, Garlandinne-515 731, District: Anantapur (A.P.)**

**[An ISO 9001:2015 CERTIFIED INSTITUTE]**

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Tele. 08551-286441

<b>Machine-429/1374</b>	<b>SHER JRF 650 POWER WEEDER</b>	<b>COMMERCIAL (ICT)</b>
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Manufacturer : **M/S. Chongqing Jiamu Machinery Co.Ltd**  
**Add No 02, Aokang Road, Bishan Industrial Park, Chongqing, China.**

Applicant : **M/s. Goa Tractors Tiller & Agencies**  
**5C, Thivim Industrial Estate, Karaswada, Mapusa, Bardez, Goa**

### **SHER JRF 650 POWER WEEDER**

Report No. : **Machine-429/1374**

Month: **May**

Year: **2022**



सत्यमेव जयते

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## 17. COMMENTS & RECOMMENDATIONS

### 17.1 Engine Performance:



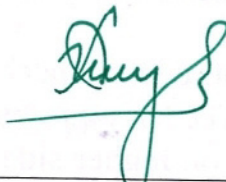
- 17.1.1 The maximum power and rated power were observed as 3.3 kW under natural ambient condition against the declared value of 4.7 kW. respectively
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 482 g/kWh against the declared value of 275 g/kWh. This should be looked into for corrective action.
- 17.1.3 Max. Torque was observed as 10.27Nm against the declared value of 12.0 Nm.
- 17.1.4 Back up torque of engine was observed as 2.29 %, against the declared value of 7%. This should be looked into for corrective action.
- 17.2 Max. Noise at operator's ear level was observed as 97dB (A).which is on higher side. Therefore corrective action should be taken
- 17.3 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed up to the maximum extent of 345 microns, which is on higher side therefore corrective action to reduce the vibration should be taken.
- 17.4 The hardness of rotary blades do not conform to the requirement of IS 6690:1981 (Reaffirmed 2017). This should be looked into for corrective action.
- 17.5 Manganese content of rotary blade is not as per the requirement of IS 6690:1981 (Reaffirmed 2017). This should be looked into for corrective action.
- 17.6 Air cleaner oil pull over was observed Nil to 0.58%. Which is on higher side? Therefore corrective action should be taken.
- 17.7 The provided labeling plate should be as per the requirement of the IS.

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**17.8 Technical literature:**

Operators manual and parts catalogs of power weeder were supplied with 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 IS 8132:1999 (Reaffirmed 2019) for the sake of user & technical personnel in booklet form.

**TESTING AUTHORITY:**

B.N.DIXIT AGRICULTURAL ENGINEER	
P.KAMALABAI SENIOR AGRICULTURAL ENGINEER	
K.K. NAGLE DIRECTOR	

**18. APPLICANTS COMMENTS**

We have noted your comments and recommendations and forwarded the same to our principal manufacturer, we will take the corrective action as suggested by you