

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)  
COMMERCIAL TEST REPORT  
(INITIAL)

संख्या/No: Machine-392/1220  
माह:/ Month: October, 2020  
Validity: 30.09.2025



**SHRACHI 2R PADDY 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, Cooperation 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://srfmtti.dacnet.nic.in/>

E-mail: [fmti-sr@nic.in](mailto:fmti-sr@nic.in)

Tele./FAX: 08551-286441

<b>Machine-392/1220</b>	<b>SHRACHI 2R PADDY WEEDER</b>	<b>COMMERCIAL (ICT)</b>
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Manufacturer (apa) : M/s. BTL EPC LTD. (Agro. Div.),  
2, Jessore Road, Dum Dum, Kolkata -  
700 208, West Bengal, India.

Applicant : The Manufacturer

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**Ring side clearance:**

Rings	Ring side clearance, (mm)	Max. permissible clearance limit, (mm)
1 <sup>st</sup> Compression ring	0.09	0.30
2 <sup>nd</sup> Compression ring	0.09	

**Main bearings:**

Bearing No.	Type of bearings	Diametrical clearance, (mm)	Crankshaft end float, (mm)	Max. permissible clearance limit,(mm)	
				Diametrical clearance	Crankshaft end float
1.	Ball bearing	NA	0.11	NA	0.25
2.	Ball bearing	NA		NA	0.25

Remarks: Measurement of big end bearing clearance was not possible, as the piston along with connecting rod was not detachable.

**14.2 Transmission system:**

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

**15. COMMENTS & RECOMMENDATIONS**

**15.1** Max. Noise at operator's ear level was observed as 92 dB (A), which is on higher side as per ILO. As the Sound Pressure level is directly influencing the Human/Operator's Health, Safety and Comfort; and therefore suitable corrective action may be taken.

**15.2** The capacity of fuel tank is only 0.90 liters, which does not appear to be adequate. this calls for necessary modification.

**15.3** A fuel on/off knob may be considered for providing in the fuel system of engine.

**15.4** The hardness of blade inbuilt with cage wheel was recorded as 25.3 to 28.6 HRC against the requirement of  $56 \pm 3$  HRC as per IS 6690:1981 (Reaffirmed 2012). This maybe looked into for corrective action.



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15.5 The chemical composition of blade inbuilt with cage wheels is not conforming to the requirement of IS 6690:1981 (Reaffirmed 2012). This maybe looked into for corrective action.

**15.6 Adequacy of literature supplied with the machine:**

The Operators manual cum parts catalogue of paddy weeder in English was supplied with the paddy weeder for reference during the test. It is however, recommended that same may be revised and brought out as per IS: 8132- 1999 (Reaffirmed 2004) for the sake of user & technical personnel.

**TESTING AUTHORITY:**

B.N. DIXIT AGRICULTURAL ENGINEER	
Dr. P.P. RAO DIRECTOR	

**16. APPLICANT'S COMMENTS**

Para No.	Our reference	Applicant's comments
16.1	15.1	The same recommendation is noted for further improvement during production.
16.2	15.2	We will discuss regarding the same with our engine manufacturer, for the possible improvement area in this regards.
16.3	15.3	We will discuss regarding the same with our engine manufacturer, for the possible improvement area in this regard.
16.4	15.4	We would discuss the same with development team to improve the same quality.
16.5	15.5	We would discuss the same with development team to improve the same quality.
16.6	15.6	We will provide the same in future.