

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT

(INITIAL)

TEST REPORT IS VALID UPTO 30/04/2028

संख्या/No: Machine-491/1500

माह/Month: May, 2023

Validity: 30.04.2028



SHB 100-Z 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

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

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

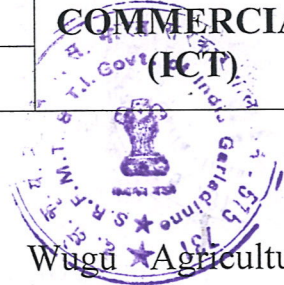
[An ISO 9001:2015 CERTIFIED INSTITUTE]

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in

Tele. 08551-286441

Machine- 491/1500	SHB 100-Z POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Chongqing Senci Wugu Agriculture Machinery Import & Export Company Limited, No. 8, Longfei Road, Dongchen Street, Tongliang District, Congqing, China-402560.

Applicant : M/s. SHB Agro Power India Private Limited, Sukh Sadan, Nripendra Narayan Road, Cooch Behar, West Bengal-736101, India

SHB 100-Z POWER WEEDER

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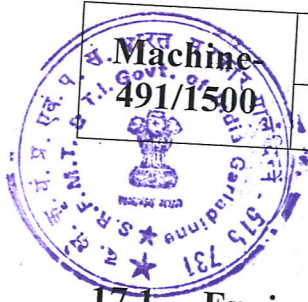


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COMMENTS
(ICT)

17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

- 17.1.1 The maximum power and rated power were observed as 3.8 kW, natural ambient condition against the declared value of 4.2 kW. should be looked into corrective action
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 451 g/kWh against the declared value of 450 g/kWh.
- 17.1.3 Max. Torque was observed as 11.67 Nm against the declared value of 11.70 Nm.
- 17.1.4 Back up torque of engine was observed as 6.38 %, against the declared value of 10% .
- 17.2 The amplitude of mechanical vibration on most of the assemblies of Power Weeder was observed upto the maximum extent of 342 micro which is on higher side therefore corrective action to read the vibration should be taken.
- 17.3 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.
- 17.4 Chemical composition carbon & Silicon of rotary blade are not as per the requirement of IS 6690:1981 (Reaffirmed 2017). This should be looked into for corrective action.
- 17.5 The provided labeling plate should be as per the requirement of the IS.

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17.7 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

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

18. Applicant Comments

S.No	Para No	Particular
1	17.1.1	We will take corrective actions with the principal manufacturing company.
2	17.1.2, 17.1.3, 17.1.4	Consulting the deviation for talking immediate corrective action with the principal company
3	17.2	As advised, we will use anti vibration pad to reduce vibration
	17.3, 17.4	We will take corrective action as suggested
	17.5	We will use labeling plate as per IS.