व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) COMMERCIAL TEST REPORT (INITIAL) संख्या / No: Machine-349/1165 Month: June, 2020 Validity: 31.05.2025



MHASWADKAR BAM 732 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, 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.inTele./FAX: 08551-286441

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Manufacturer	:	M/s. Zhejiang Pacesetter Power & Machine Co. Ltd., No.7, Weiliu West Road, Hardware Industrial Zone, Tongqin Town, Wuyi, Zhejiang, China
Applicant	:	M/s. Mhaswadkar Autolines Pvt. Ltd., 283/3/1B, Karanje, New Radhika Road, Near Market Yard, Satara - 415 001, Maharashtra,

India.

MHASWADKAR BAM 732 POWER WEEDER

Month: June

Year: 2020



Government of India Ministry of Agriculture and Farmers Welfare Department of Agriculture, Cooperation and Farmers Welfare Southern Region Farm Machinery Training and Testing Institute Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.) [An ISO 9001:2015 CERTIFIED INSTITUTE]

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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)

MHASWADKAR BAM 732 POWER WEEDER

Valve, guides and timing		Observation
gears:		
Any marked sign of	:	None
overheating of valves		
Pitting of seat/faces of	:	None
valves		
Any visual damage to the	:	None
teeth of timing gears		
Clearance between valve	:	
guide and valve stem		
(mm)		
- Intake valve	:	0.10 ± 0.03
- Exhaust valve	:	0.15 ± 0.03

16.3 Transmission gears:

All the Gears and sprockets of the transmission system were found in normal working condition.

16.4 Rotary drive unit:

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

17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

- 17.1.1 The maximum power and rated power were observed as 6.7 & 6.6 kW respectively under natural ambient condition against the declared value of 5.2 & 5.1 kW respectively.
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 255 g/kWh against the declared value of 295 g/kWh.
- 17.1.3 Max. Torque was observed as 21.80 Nm against the declared value of 16.5 Nm.
- 17.1.4 Back up torque of engine was observed as 4.5 %, against the declared value of 11%. This should be looked into for corrective action.
- **17.2** Max. Noise at operator's ear level was observed as 94 dB (A). Which is on higher side as per ILO.

COMMERCIAL

(ICT)

Machi 349/11	2019.14.25	MHASWADKAR BAM 732 POWER WEEDER	COMMERCIAL (ICT)			
17.3	Powe Whie Besie	amplitude of mechanical vibration on most of the er Weeder was observed to the maximum exten- ch is directly concerned with Operator's Health, S des, it also adversely affect the useful life of the co e above, this should be taken care for corrective ac	nt of 486 microns, Safety and Comfort. omponents. In view			
17.4	The 6690	The hardness of rotary blades conforms to the requirement of IS 690:1981 (Reaffirmed 2012).				
17.5	All the re	All the constituents of chemical composition of rotary blades conforms to the requirement of IS 6690:1981 (reaffirmed 2012).				
17.6 17.7		provided labeling plate should be as per the require nical literature:	ement IS.			
		er's manual and parts catalogue of power wee rate booklets were supplied with the test sample f	or reference during			

the test. It is however, recommended that same may be revised and bought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel.

TESTING AUTHORITY:

B.N. DIXIT AGRICULTURAL ENGINEER	- At-
Dr. P.P. RAO DIRECTOR	P.P.R.a.

18. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
18.2	17.2	We will look into it regarding this matter
18.3	17.3	We will look into for reducing the mechanical vibration in future products
18.5	17.6	Point is noted and will try to implement for further
18.6	17.7	We will brought out the literature as per your recommendation

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