

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

संख्या / No: PT-137/1113
माह / Month: January, 2020
Validity: 31.12.2022



SHRACHI TEJAS 15 DI POWER TILLER



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

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

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

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PT- 137/1113	SHRACHI TEJAS 15 DI POWER TILLER	COMMERCIAL (ICT)
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Manufacturer : M/s. Zhejiang Sifang Group Corpn.,
No. 57, Yongtho Road, Yongkang,
Zhejiang Province-321 315, **China.**

Applicant : M/s. BTL EPC LTD.,
2, Jessore Road, Dum Dum,
Kolkata-700 028, West Bengal, **India**

Indigenous/ Imported : **Imported**

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18.17.5	Haulage test	
18.17.5.1	The power tiller was recommended for haulage test with a trailer of gross mass of 1.6 tonne.	
18.17.5.2	Distance traveled per liter was observed 12.76 to 13.42 km.	
18.17.5.3	Specific fuel consumption was observed 46.57 to 48.98 cc/km/t.	
18.17.6	Wetland cultivation (Puddling test) :	
18.17.6.1	Puddling test was conducted with cage wheels and with hatchet blade.	
18.17.6.2	The maneuverability of power tiller during puddling test was found satisfactory.	
18.17.6.3	On partial dismantling of the power tiller and inspection of the oil lubricants from engine sump, clutch assembly, gear box, chain case, and rotary shaft housing, no entry of mud and/water was observed.	
18.17.7	Rotary blades:	
	i) The hourly rate of wear of blades for dry land and wet land operations was observed as 0.05 to 0.38 percent and 0.09 to 0.22 percent respectively.	
	ii) All the constituents of chemical composition except silicon content of hatchet blade conforms to IS 6690:1981 (Reaffirmed 2012).	
	iii) The dimensions of hatchet blades does not conforms fully to the requirement of IS 6690:1981 (Reaffirmed 2012).	
	iv) The hardness of hatchet blades were not conforming to the requirement of IS 6690:1981 (Reaffirmed 2012).	
18.17.8	As per IS 12239 (Part 3): 1988, “maximum safe speed” with trailer is required to be specified by the manufacturer. Necessary action may be taken in this regard.	
18.17.9	As per IS 12239 (Part 3): 1988, balancing mass to be added to achieve correct weight balance of the power tiller with various attachments should be recommended by the manufacturer in the operator manual. This may be examined for compliance.	
18.17.10	Provision of spark arresting device may be considered for incorporation in the exhaust system.	
18.17.11	Provided metallic labeling plates should be as per IS 10273:1987.	
18.17.12	It is recommended that the tire should have the “marking” as per clause 8 of IS13154:1991.	

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18.17.13 The handle grip does not meet the requirement of IS11858:1986. This may be looked into for compliance.

18.17.14 The discard limits of the engine components need to be specified in the printed manual along with brief specification of the machine.

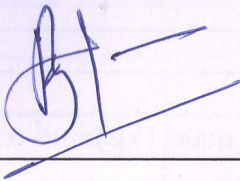

18.18 **Adequacy of literature supplied with the machine:**

The following literature was supplied with the test sample for reference during the test :

Operator's manual cum service manual and parts catalogue for power tiller and engine in English in a single booklet.
 However, it is recommended that the same may be brought out in accordance with IS8132:1999 (Reaffirmed 2004)with inclusion of, inter alia, the following: -

- Fuel saving tips

TESTING AUTHORITY:

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

19. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
19.1	18.17.3	We will make suitable arrangements to reduce mechanical vibration to meet the desired standard.
19.2	18.17.4	We will talk to our technological consultant in this regards to reduce the noise level significantly.
19.3	18.17.7	We will send the same feedback to our blade manufacturer to improve the same parameters.
19.4	18.17.8	We will follow the same instruction in future.
19.5	18.17.9	We will incorporate the same in operator manual in future
19.6	18.17.10	We will keep it in mind during production
19.7	18.17.11	We will keep it in mind during production
19.8	18.17.12	We will keep it in mind during production