

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

संख्या/No: PT-141/1207  
माह/Month: September, 2020  
Validity: 31.08.2023



**VST SHAKTI 165 DI•S POWER PLUS 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**

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

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

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<b>PT- 141/1207</b>	<b>VST SHAKTI 165 DI●S POWER PLUS POWER TILLER</b>	<b>COMMERCIAL (ICT)</b>
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Manufacturer : M/s. V.S.T. Tillers Tractors Ltd.,  
Plot No. 222-224 & 229-232, 3<sup>rd</sup> Phase,  
KIADB Industrial Area, Malur,  
Kolar District - 563130, Karnataka,  
India.  
**Regd. & Head Office:**  
Plot No. 1, Dyavasandra Indl. Layout,  
Whitefield Road, Mahadevapura Post,  
bangalore-48, Karnataka, India.

Applicant : The manufacturer

Indigenous/ Imported : **Indigenous**

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**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 0.13 to 0.40 percent and 0.09 to 0.24percent respectively.
- ii) All the constituents of chemical composition of straight and hatchet blades 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 straight and hatchet blades are 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.

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

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



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

**Operator manual & service log book and parts catalogue for power tiller and engine in English in separate booklets.**

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	18.17.8	We will take necessary action about mentioning Trailer Maximum safe speed to meet IS 12239(Part 3): 1988. Also, the operator manual will be suitably amended to include the maximum safe speed.
19.2	18.17.9	The operator manual will be suitably amended to include the balancing mass along with various attachments
19.3	18.17.10	Provision of spark arresting device will be considered for incorporation in the exhaust system
19.4	18.17.11	Labelling plate will be suitably modified to include the details mentioned
19.5	18.17.12	Will be suitably modified to include the details in tyre as per clause 8 of IS:13154-1991
19.6	18.17.13	The handle grip will be studied and actioned to meet to the compliance of IS:11858-1986
19.7	18.18	Operator's manual will be suitably modified to bring in the details like recommended matching implements and fuel saving tips.