

THIS TEST REPORT IS VALID UP TO 31.01.2031



VST SHAKTI 165 DI-ES POWER PLUS POWER TILLER



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

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Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)
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PT-170/1584

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COMMERCIAL
(VARIANT)

Manufacturer : M/s. V.S.T. Tillers Tractors Ltd.
Plot No. 222-224 & 229-232, 3rd Phase,
KIADB Industrial Area,
Malur, Kolar District-563130,
Karnataka., India.

Applicant : The Manufacturer

Indigenous/ Imported : **Indigenous**

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Report No.: **PT-170/1584**

Month: **February**

Year: **2024**



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**3.4 SUMMARY OF OBSERVATIONS, COMMENTS &
RECOMMENDATIONS**

Evaluative (mandatory)/ Non-evaluative (non-mandatory) parameters applicable for Qualifying Minimum Performance Criteria as per **Clause –4.1 (Table-1) of IS 13539: 2018 (Second revision)** for acceptance of the power tiller for the purpose of subsidies/institutional financing are summarized as under:

Sl. No.	Characteristics	Category (Evaluative /Non Evaluative)	Requirements as per IS 13539: 2018 (Second revision)	Values Declared by the applicant/ requirement		As observed		Whether meets the requirements (Yes/No)
				B	V	B	V	
1	2	3	4	5a	5b	6a	6b	7
3.4.1	Rotary shaft performance:							
a)	Max. Power test, (kW)	Evaluative	Minimum 80 percent of observed maximum bhp of power tiller	9.1	9.1	9.55	9.27	Yes
b)	Power at rated engine speed,(kW)	Evaluative	Minimum 75 percent of observed rated bhp of power tiller	8.6	8.6	8.60	9.27	Yes
c)	Specific fuel consumption corresponding to power at rated engine speed,(g/kWh)	Evaluative	To be declared by the manufacturer with a tolerance of + 5 percent	310	310	320	319	Yes
d)	Max. equivalent rotary shaft torque, Nm	Evaluative	To be declared by the manufacturer with a tolerance of \pm 8 percent	374.4	374.4	386	372	Yes



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				B	V	B	V	
1	2	3	4	5a	5b	6a	6b	7
e)	Max. operating temp. of rotary transmission oil, (°C)	Evaluative	To be declared by the Manufacturer	105	120	60	54	Yes



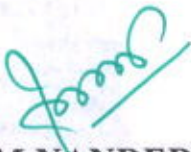
3.4.2 Salient Observations:

3.4.2.1 As compare to base model, the following features are changed in Variant model and details are given in Annexure - I & II.

- 1.Starting System
- 2.Electrical System

The Results of the tests carried out on variant model “VST SHAKTI 165 DI-ES POWER PLUS” Power tiller has been compared with those on base model “VST SHAKTI 165 DLS POWER PLUS” Power tiller and found within the limit as specified in Indian standard: 13539-2018.

TESTING AUTHORITY

 Er.PRAMOD YADAV AGRICULTURAL ENGINEER	 Er.D.C.MOULI AGRICULTURAL ENGINEER
 Dr. B.M.NANDEDE DIRECTOR	

4. APPLICANT'S COMMENTS

No specific comment received from the applicant.