

व्यावसायिक परीक्षण रिपोर्ट - (प्रथम बैच परीक्षण) संख्या/No. : T- 1651/2182/2022

COMMERCIAL TEST REPORT- (First Batch Test) माह/Month : May, 2022

[ONLINE TESTING]

(यह परीक्षण रिपोर्ट 31/05/2027 तक वैध है। / THIS TEST REPORT IS VALID UPTO 31/05/2027)



VST SHAKTI, MT 270 VIRAAT 4W TRACTOR



भारत सरकार

कृषि एवं किसान कल्याण मंत्रालय
(कृषि, सहकारिता एवं किसान कल्याण विभाग)

GOVERNMENT OF INDIA

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

(Department of Agriculture, Cooperation & Farmers Welfare)

केन्द्रीय कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

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3. SPECIFICATIONS

3.1 SPECIFICATIONS

- 3.1 Tractor:**
- Make : VST SHAKTI
 Model : MT 270 VIRAAAT 4W
 Brand name : None
 Type : Four wheeled, Four wheel driven, Standard Agricultural Tractor.
 Month & Year of manufacture : 09 / 21
 Chassis number : BFNTGD000455
 Country of origin : India
- 3.2 Engine:**
- Make : VST SHAKTI
 Model : V4D
 Type : Four stroke, liquid cooled, naturally aspirated, Indirect injection, diesel engine
 Serial number : BFBEDD007775
- 3.2.1 Engine speed (rpm), (Manufacturer's recommended production settings):**
- Maximum speed at no load : 3135 to 3185
 - Low idle speed : 875 to 925
 - Speed at maximum torque : 2250 to 2350
- Rated speed, (rpm):**
- For PTO use : 3000
 - For drawbar use : 3000
- 3.2.2 Cylinder & Cylinder Head:**
- Number : Four
 Disposition : Vertical, Inline
 Bore/stroke, (mm) : 73/78 (apa)
 Capacity as specified by the applicant, (cc) : 1306
 Compression ratio : 23: 1
 Type of cylinder head : Monoblock
 Type of cylinder liners : Wet, replaceable
 Type of combustion chamber : Indirect injection
 Arrangement of valves : Overhead
- Valve clearance (cold/hot):**
- Inlet valve, (mm) : 0.30/NA
 - Exhaust valve, (mm) : 0.30/NA
- 3.4 Fuel System:**
- Type of fuel feed system : Gravity and force feed
- 3.4.1 Fuel tank:**
- Capacity, (l) : 17.7
 Location : Above clutch housing
 Provision for draining of sediments/ water : **Not provided**
 Material of fuel tank : Metallic
- 3.4.2 Water separator : Not provided**

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16. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

16.1 On the basis of test conducted the performance results have been summarized as evaluative (mandatory) / Non-evaluative (Non-mandatory) parameters applicable for qualifying Minimum Performance criteria as per Clause-4 (Table-1) of **IS: 12207-2019** for acceptance of the tractor for the purpose of subsidies/NABARD financing are summarized as under:

Sl. No.	Characteristic	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	Values declared by the applicant/ (D) Requirement (R)	As observed	Whether meets the requirements (Yes/No)
1	2	3	4	5	6	7
16.1.1	PTO Performance :					
a)	Maximum power under 2 h test, (kW) (Natural ambient condition)	Evaluative	Declared value to be achieved with a tolerance of: $\pm 5\%$ for PTO power and or engine power > 26 kW. $\pm 10\%$ for PTO power and or engine ≤ 26 kW.	16.4	15.8	Yes
b)	Power at rated engine speed, (kW)	Non Evaluative	-do-	16.4	15.8	Yes
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	Evaluative	+ 10% max.	370	338	Yes
d)	Maximum equivalent crankshaft torque, (Nm)	Non Evaluative	$\pm 8\%$	66	60.9	Yes
e)	Back-up torque, percent	Evaluative	12 percent	12 12 (R)	21.07	Yes
f)	Maximum operating temperature, ($^{\circ}$ C)					
	1) Engine oil	Evaluative	The declared value should not exceed the max. value specified by the oil company and the observed value under high ambient condition should not exceed the declaration.	135 (D)	127	Yes
	2) Coolant	Evaluative	The declared value should not exceed the boiling temperature of coolant under the pressurized or otherwise and the observed value under high ambient condition should not exceed the declaration.	120 (D)	115	Yes
g)	Engine oil consumption, (g/kWh)	Evaluative	Not exceeding 1% of SFC at max. Power under High ambient conditions.	3.35 Maximum	0.598	Yes
h)	Smoke level, m^{-1}	Evaluative	Maximum light absorption coefficient of 3.25 per meter or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR).	3.25 Maximum	0.56	Yes

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1	2	3	4	5	6	7	
16.1.2	Drawbar performance :						
a)	Max. drawbar pull with ballasted corresponding to 15 percent wheel slip, (kN)	Non Evaluative	Minimum 70% of static mass of tractor with ballast.	Ballasting not recommended by the applicant	NA	Not applicable	
b)	Max. drawbar pull with standard ballast corresponding to 15 percent wheel slip, (kN)	Evaluative	Minimum 70% of static mass of tractor without ballast or with standard ballast, as the case may be.	7.00 (D) 6.25 (R) Minimum	8.23	Yes	
c)	Maximum drawbar power with standard ballast, (kW).	Evaluative	Minimum 80 % of PTO power as referred in SI No. i) a) of PTO performance in case of tractors having total static mass > 1500 kg Minimum 75 % of PTO power as referred in SI No. i) a) of PTO performance in case of light weight tractors having ≤1500 kg total static mass of tractor Minimum 75 % of the engine power as referred in SI No. i) a) of engine performance in case of tractors which do not have a PTO shaft.	13.1 (D) 12.6 (R) Minimum	13.1	Yes	
d)	Maximum transmission oil temperature, (°C)	Evaluative	The declared value should not exceed the maximum value specified by oil company	121 (D)	108	Yes	
16.1.3	Power lift and hydraulic pump performance :						
a)	Maximum lifting capacity throughout the range of lift, (kN):						
	1)	At hitch points	Evaluative	Tolerance of ± 10%	7.0 (D)	7.31	Yes
	2)	With the standard frame	Evaluative	The lift capacity should at least be 24 kg/PTO kW. And it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft.	5.0 (D) 3.72 (R) Minimum	5.14	Yes
b)	Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total duration of 30 Minutes, (mm)	Non Evaluative	The observed value should not exceed 50 mm	25 (D) Maximum	15	Yes	

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1	2	3	4	5	6	7
16.1.4	Brake performance at 20.90 kmph:					
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with standard ballast, (m):					
	1) Cold brake	Evaluative	10	10 (R)	4.6	Yes
	2) Hot brake	Evaluative	10	10 (R)	4.9	Yes
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² , (N)	Evaluative	600	600 (R) Maximum	170 to 246	Yes
c)	Whether parking brake is effective at a force of 600 N at foot pedal (s) or 400 N at hand lever	Evaluative	Yes / No	Yes	Yes	Yes
16.1.5	Noise measurement :					
a)	Maximum ambient noise emitted by the tractor, dB(A)	Evaluative	As per CMVR	88 (R)	80	Yes
b)	Maximum noise at operator's ear level, dB(A)	Evaluative	As per CMVR	96 (R)	94	Yes
16.1.6	Amplitude of mechanical vibrations at:					
	1) Left foot rest	Non Evaluative	100 microns (max.)	604	No	
	2) Right foot rest			595	No	
	3) Seat (with driver seated)			415	No	
	4) Steering wheel			696	No	
16.1.7	Air cleaner:					
	Maximum air cleaner oil pull over, (%)	Evaluative	0.25 (Max.)	Dry type air cleaner is provided	Not applicable	
16.1.8	Haulage requirements :					
a)	Gross mass of the trailers, (tones):					
	Two wheel	Non Evaluative	As specified by the manufacturer	3.0	3.0	Yes
	Four wheel	Non Evaluative		Not recommended	Not applicable	--
b)	Distance travelled / liter of fuel consumption, (km/l):					
	Two wheel	Non Evaluative	As specified by the manufacturer	5.86 to 6.19	4.98 to 5.17	No
	Four wheel	Non Evaluative		Not recommended	Not applicable	--
c)	Fuel consumption, (ml/km/tonne) :					
	Two wheel	Non Evaluative	As specified by the manufacturer	53.9 to 56.92	64.5 to 66.9	No
	Four wheel	Non Evaluative		Not recommended	Not applicable	---

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1	2	3	4	5	6	7
16.1.9	Wetland cultivation :					
	Sealing for the following assemblies:	Evaluative	The identified assemblies should essentially meet the requirement of IS: 11082. No water ingress in the identified assembly given in column-2. If tractor does not meet the requirements of wetland cultivation, it may be recommended for dry land operation only.	There should be no ingress of water and/or mud	No ingress of water and / or mud was reported during Initial commercial testing of this tractor model tested vide test report no. T- 1110/1636/2017 released in October, 2017	Yes
1)	Clutch assembly	-do-				
2)	Brake housings	-do-				
3)	Front axle hubs	-do-				
4)	Engine Oil	-do-				
5)	Transmission Oil	-do-				
16.1.10	Safety features :					
a)	Guards against moving and hot parts	Evaluative	Belt drives, pulleys, silencer, hydraulic pipes (As per IS 12239 (Part2))		Meets the requirement	Yes
b)	Lighting arrangement	Evaluative	As per CMVR		Meets the requirement	Yes
c)	Seating requirements (Tractors having more than 1150 mm rear track width)	Non Evaluative	Should meet the requirements of IS: 12343 (As amended from time to time)		Not applicable as rear track width of tractor is less than 1150 mm	Not applicable
d)	Technical requirements for PTO shaft	Evaluative	Should meet the requirements of IS: 4931 (As amended from time to time)		Meets the requirement	Yes
e)	Dimensions of three point linkage	Non Evaluative	Should meet the requirements of IS: 4468 (Part-I) (As amended from time to time)		Meets the requirement	Yes
f)	Specifications of linkage drawbar	Evaluative	Should meet the requirements of IS: 12953 (As amended from time to time)		Meets the requirement	Yes
g)	Swinging drawbar (wherever fitted)	Evaluative	Should meet the requirement of IS: 12362 (Part 3) (As amended from time to time)		Not provided	Not applicable
h)	1) Maximum travelling speed at rated engine speed in reverse gears, kmph	Evaluative	Should not exceed 20 kmph		7.84 (Meets the requirement)	Yes
	2) Audible warning signal on tractor	Evaluative	As soon as the travelling speed in reverse gear reaches to 20 kmph, an audible warning signal on tractor shall be activated. The safety aspects about the operation of shuttle technology shall be brought in operation and manufacturer /dealer shall ensure the training on this aspect to operator before the delivery of tractor.		Not fitted	Not applicable

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1	2	3	4	5	6	7		
16.1.11	Labelling of tractors (Provision of labelling plate):							
	1)	Make	Evaluative	Should conform to the requirements of CMVR along with maximum PTO Power in kW and year of manufacture in numerical form. <table border="1" style="margin: 5px auto;"><tr><td>MM</td><td>YY</td></tr></table> Digit 01 – 12 in box No.1 for MM will represent the months and next two digits in box No.2 for YY will represent the year of Manufacturing.	MM	YY	VST SHAKTI	Yes
	MM	YY						
	2)	Model	Evaluative		MT 270 VIRAAAT 4W	Yes		
	3)	Month & Year of manufacture	Evaluative		09/21	Yes		
	4)	Engine number	Evaluative		BFBEDD007775	Yes		
	5)	Chassis number	Evaluative		BFNTGD000455	Yes		
6)	Maximum PTO power, (kW)	Evaluative	16.4		Yes			
16.1.12	Discard limit for:							
(a)	Cylinder bore diameter, (mm)	Evaluative	To be specified by the manufacturer and supported by the printed literature	73.950	72.957 to 72.987	Yes		
(b)	Clearance between piston & cylinder liner at skirt, (mm)	Non Evaluative		0.30	0.085 to 0.095	Yes		
(c)	Piston diameter at skirt, (mm)	Non Evaluative		72.50	72.892 to 72.901	Yes		
(d)	Ring end gap, (mm):							
	- Top compression ring	Evaluative	To be specified by the manufacturer and supported by the printed literature	1.50	0.20 to 0.25	Yes		
	- 2 nd compression ring			1.50	0.30 to 0.35	Yes		
	- 3 rd compression ring			1.50	0.25 to 0.35	Yes		
	- Oil ring			1.50	0.25 to 0.30	Yes		
(e)	Ring groove clearance, (mm):							
	- Top compression ring	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.30	Tapered	Yes		
	- 2 nd compression ring			0.30	0.056 to 0.064	Yes		
	- 3 rd compression ring			0.30	0.046 to 0.050	Yes		
	- Oil ring.			0.30	0.028 to 0.034	Yes		
(f)	Clearance of main bearings, (mm):							
	- Diametrical clearance	Evaluative	To be specified by the manufacturer and supported by the printed literature	0.20	0.071 to 0.108	Yes		
	- Crankshaft end float	Evaluative		1.00	0.10	Yes		

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1	2	3	4	5	6	7	
(g)	Clearance of big end bearings, (mm):						
	-	Diametrical	Evaluative	-do-	0.15	0.035 to 0.094	Yes
	-	Axial	Evaluative	-do-	0.50	0.10 to 0.15	Yes
(h)	Clearance between king pin and bush, (mm)	Non Evaluative	-do-	1.50	Not applicable	Not applicable	
(i)	Clearance between centre pin and bush, (mm)	Non Evaluative	-do-	1.0	0.120 to 0.141	Yes	
16.1.13	Literature (Submission to test agency)						
(a)	Operator manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
(b)	Parts Catalogue	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
(c)	Workshop/ Service manual	Evaluative	Provided / Not Provided	Provided	Provided	Yes	
16.1.14	Fitment of Roll Over Protective Structures (ROPS):						
	For tractor having more than 1150 mm rear track width	Evaluative	ROPS should meet the requirement of IS:1182 or OECD code or equivalent International Standard		Not fitted	Not applicable	
16.1.15	Standard Accessories	Evaluative	Trailer hitch, front tow hook, linkage drawbar should be provided with tractor		Provided	Yes	
16.1.16	Accessories (optional)	Non Evaluative	Ballast weight, if fitted, should meet the requirement of CMVR		Provided	Yes	
16.2	CATEGORY OF BREAKDOWNS / DEFECTS (As per clause 5.0 of IS:12207-2019):						
Sl. No.	Category of breakdowns	Category (Evaluative / Non Evaluative)	Requirements as per IS: 12207-2019	As observed	Whether meets the Requirements (Yes/No)		
1.	Critical	Evaluative	No critical breakdown	None	Yes		
2.	Major	Evaluative	Not more than two and neither of them should be repetitive in nature	None	Yes		
3.	Minor	Evaluative	Not more than five and frequency of each should not be more than two.	None	Yes		
4.	Total breakdowns	Evaluative	In no case, the total number of breakdowns should exceed five, that is, (2 major + 3 minor) or (1 major + 4 minor) or 5 minor breakdowns.	None	Yes		

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16.3 Salient Observations:

16.3.1.1 Laboratory tests:

PTO performance test:

The maximum speed of engine at no load condition was recorded as 3193 rpm against the specification of “3135 to 3185 rpm” by the applicant.

This should be looked into for necessary corrective action.

16.3.1.2 Drawbar performance test:

During the drawbar performance test, H-1 gear was not engaging. Upon applicant’s request transmission assembly was inspected. Ring snap (Part no.18000600141) was found slanted. So, the ring snap (Part no. 18000600141) was repaired and refitted again.

This should be looked into for necessary correction.

16.3.1.3 Mechanical Vibration:

The amplitude of mechanical vibration on various assemblies / components marked as (*) in Chapter – 10 of this test report is on higher side. This calls for dampening down of vibrations especially on left & right foot rest, steering wheel and operator’s seat to improve the operational comfort and service life of components.

16.3.1.4 Specifications:

Standard Track width of rear wheels was observed as 915 mm in previous sample while during batch it was observed as 860 mm. this should be looked into for necessary correction.

16.3.1.5 Steered wheel rims (optional fitment)

The sizes of Steered Wheel Rims (optional fitment) were found to be “4.00B X 12”. As per Rule 95 A (2) of CMVR, 1989 read in conjunction with IS: 13154- 2015 provides for “The Agricultural Tractor manufacturer shall select ONLY THAT RIM SIZE AS RECOMMENDED BY THE TYRE MANUFACTURER.” In this case, the rim size RECOMMENDED by IS: 13154-2015, by ITTAC manual, is “4JA”. An immediate corrective action is required to be taken even in stand point of view with compliance to CMVR, 1989.

In response thereto, the applicant vide letter No. Nil dated 02/06/2022, has submitted that “to meet the CMVR compliance and IS: 13154 requirement, we have decided to withdraw the optional fitment of 5-12 tyre size from this tractor model” and thereby there would be only standard size of tyre i.e. 6.00-12, which conforms to Rule 95 A (2) of CMVR, 1989 compliance and IS: 13154, was allowed. Thus tractor now became Rule 95 A (2) of CMVR, 1989 & IS: 13154 -2015 conformant.

16.3.1.6 Drive wheel rims (optional fitment)

The sizes of Drive Wheel Rims (optional fitment) were found to be “W 6 X 18”. As per Rule 95 A (2) of CMVR, 1989 read in conjunction with IS: 13154- 2015 provides for “The Agricultural Tractor manufacturer shall select ONLY THAT RIM SIZE AS RECOMMENDED BY THE TYRE MANUFACTURER.” In this case, the rim size RECOMMENDED by IS: 13154-2015, by ITTAC manual, is “W7”. An immediate corrective action is required to be taken even in stand point of view with compliance to CMVR, 1989.

In response thereto, the applicant vide letter No. Nil dated 02/06/2022, has submitted that “to meet the CMVR compliance and IS: 13154 requirement, we have decided to withdraw the optional fitment of 8-18 tyre size from this tractor model” and thereby there would be only standard size of tyre i.e. 8.3-20, which conforms to Rule 95 A (2) of CMVR, 1989 compliance and IS:13154, was allowed. Thus tractor now became Rule 95 A (2) of CMVR, 1989 & IS: 13154 -2015 conformant.

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16.3.2 Haulage Test:

- i) Distance travelled/litre of fuel consumption was recorded as 4.98 to 5.17 km/l against the declaration of 5.86 to 6.19 km/l. Which does not meet the requirement of IS: 12207-2019 with regard to tolerance limit. This should be looked into for necessary corrective action.
- ii) Specific fuel consumption (ml/km/ton) was recorded as 64.5 to 66.9 ml/km/ton against the declaration of 53.9 to 56.9 ml/km/ton. Which does not meet the requirement of IS: 12207-2019 with regard to tolerance limit. This should be looked into for necessary corrective action.

16.3.3 Maintenance / Service problems:

No noticeable maintenance or service problem was observed during the test.

16.3.4 Recommendation with regard to safety on tractor:

The following requirements, inter alia, may be considered for incorporation on the tractor:

- i) There should be provision for spark arresting device in exhaust system.
- ii) The working clearance around position control lever & draft control should be provided as per IS: 12239 (Part-2) – 1999.
- iii) Provision of fuel shut-off knob does automatically remain in stop position without the application of sustains manual effort.
- iv) PTO master shield may be provided.
- v) Vertical retainers at both sides of pedals should be provided as per relevant standard.
- vi) Hand holds for easy mounting and dismounting of operator.

The recommendations at serial no. (i), (iii) & (iv) were also made in the previous Test Report No. T-1110/1636/2017 but no improvement has been made in this regard so far. This observation calls for necessary corrective action.

16.4 Adequacy of Literature:

16.4.1 The following literature of tractor models was supplied with the test sample for reference during the test.

- a) Operator manual of VST SHAKTI, MT 270 VIRAAAT 4W tractor model.
- b) Service manual VST SHAKTI, MT 270 VIRAAAT 4W tractor model.
- c) Parts catalogue VST SHAKTI, MT 270 VIRAAAT 4W tractor model.


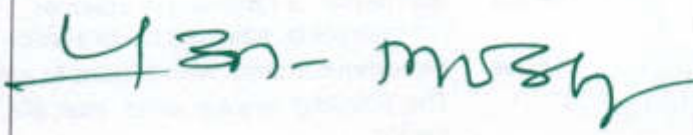
16.4.2 The operator manual may be brought out for the guidance of users and service personnel as per IS:8132-1999 incorporating, inter alia, the following:

- i) Fuel saving tips
- ii) Safe hitch height of the trailer.
- ii) Coolant water ratio.

16.5 Delay of 14 days occur to repair “Ring Snap” in the lever engaging mechanism of the tractor by the applicant.

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TESTING AUTHORITY:

C.V. CHIMOTE TEST ENGINEER	
P. K. PANDEY DIRECTOR	

Draft test report is compiled by: **Nitesh Kumar Verma**, Agricultural Engineer.

17. Applicant's comments

Para no.	Our reference	Comments received from the applicant
17.1	16.3.1.2, 16.3.1.3, 16.3.1.4, 16.3.2 (i) & (ii)	Necessary corrective action will be taken/ necessary improvement will be incorporated for quality products.
17.2	16.3.4 (i), (ii), (iii), (iv), (v) & (vi)	Suggestions & recommendation will be incorporated for the quality of product & necessary corrective action will be taken. This will be implemented immediately.

ANNEXURE – I

BRIEF SPECIFICATION OF TRAILER DECLARED AS MATCHING TRAILER BY APPLICANT

SI No.	Specification of Trailer	
1.	Make	Sai Fabs
2.	Model	NA
3.	Type of trailer	Semi – Trailer
4.	Number of axles	Single
5.	Un laden Weight of Trailer, kg	550
6.	Overall dimensions of Trailer, (mm):	
	Overall Width	2300
	Overall Length	1630
	Overall Height	1070
	Wheel Base	NA
	Wheel Track	1515
7.	Dimension of fitted platform, (mm)	
	Length	2210
	Width	1110
	Height from ground	520
8.	Brakes of Trailer	Not Provided

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ANNEXURE – II

TRACTOR RUN HOURS DURING TEST

A.	LABORATORY AND TRACK TESTS:	HOURS
1.	Running-in	18.0
2.	PTO performance test	10.25
3.	Drawbar performance test	15.95
4.	Power lift and hydraulic pump performance test	3.09
5.	Brake test	1.0
6.	Noise measurement	1.50
7.	Mechanical vibration test	1.0
8.	Theoretical speed test	1.33
B.	HAULAGE TEST:	7.93
C.	Miscellaneous test and other run hours including idle run, transportation, trials and preparation for test	2.1
TOTAL:		62.15