

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

संख्या/No: IMP-523/1025
माह/Month: June, 2019
Validity: 31.05.2026



**SRI VEL MURUGAN SVMT - 9 TRC NINE TINE RIGID CULTIVATOR
(Tractor Mounted)**



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 (आ. प्र.)

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

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Manufacturer : M/s. Sri Vel Murugan Engineering Works,
5/86, Thiruchencode Road, Andalore Gate
(P. O), Rasipuram (Tk), Namakkal Dist.,
Tamil Nadu - 637 401, India.

Name of Applicant : The Manufacturer

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सत्यमेव जयते

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6.4 Wear of Shovel

Sl. No.	Initial Mass (g)	Final Mass (g)	Loss of Mass (g)	Percentage of Wear	
				After 26.0 h	Per hour
1	2398	2239.3	158.7	6.62	0.25
2	2526	2418.9	107.1	4.24	0.16
3	2469	2228.7	240.3	9.73	0.37
4	2332	2178.4	153.6	6.59	0.25
5	2399	2315.3	83.7	3.49	0.13
6	2426	2383.9	42.1	1.74	0.07
7	2348	2300.7	47.3	2.02	0.08
8	2452	2407.6	44.4	1.81	0.07
9	2458	2396.8	61.2	2.50	0.10

Remark: - The hourly percentage wear of blades on mass basis was recorded as 0.07to 0.37%.

7. EASE OF OPERATION & ADJUSTMENTS

No difficulty was observed during the operation and adjustment of cultivator.

8. DEFECTS, BREAKDOWNS AND REPAIRS

No defect/breakdown was occurred during entire period of field & lab tests.

9.SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATION

- 9.1 The hardness of shovels does not conform to the requirement of IS 6813:2000 (Reaffirmed 2012).
- 9.2 The dimensions of tines does not conform fully with IS 7565 (Pt-I):1975 (Reaffirmed 1999). It should be looked into for corrective action.
- 9.3 The specification of implement hitch does not conform fully to the IS 4468 (Pt-I):1997 (Reaffirmed 2012). It is recommended that the same should be provided conforming to the relevant Indian Standards.
- 9.4 The bolt used for shovel is Hexagonal one, it is recommended to use the Counter sunk bolt as per IS 6813:2000.
- 9.5 Chemical composition of shovels conforms to the requirement of IS 6813:2000 (Reaffirmed 2012).

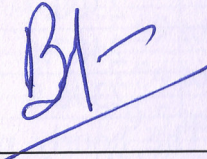
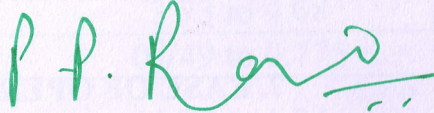
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9.6 The labeling plate should be provided as per the requirements of IS.

9.7 **Adequacy of literature:**

Operation manual, Service manual, Maintenance manual and Spare parts catalogue of Rigid Cultivator in English was provided in a single booklet form for reference during the test. However, this may be brought out in Hindi and other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel.

TESTING AUTHORITY:

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

10. APPLICANT'S COMMENTS

"As per your recommendations, we will take all possible necessary corrective action in future production".