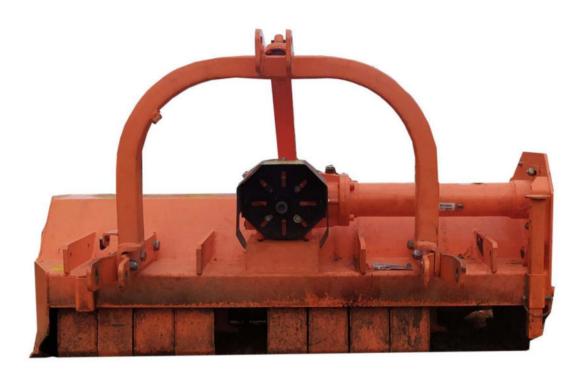
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: IMP-544/1170 माह/Month: June, 2020 Validity: 31.05.2027



SRI VENKATESHWARA SVEW-4 FM FLAIL MOVER (Tractor Mounted, PTO Operated)



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 द्रैक्टर नगर, गार्लिदेशे - 515 731, जिला: अनंतपुर (आं. प्र.)

Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.) [An ISO 9001:2015 CERTIFIED INSTITUTE]

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IMP-544/1170

SRI VENKATESHWARA SVEW-4 FM FLAIL MOVER (Tractor Mounted, PTO Operated)

COMMERCIAL (ICT)

Manufacturer : M/s. Sri Venkteshwara Engineering Works,

Harihere Main Road, Gollarahalli,

Honnali – 577 217, Davanagere (Dist.),

Karnataka, India.

Applicant : The Manufacturer

SRI VENKATESHWARA SVEW-4 FM FLAIL MOVER (Tractor Mounted, PTO Operated)

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Government of India

Ministry of Agriculture and Farmers Welfare Department of Agriculture, Cooperation and Farmers Welfare Southern Region Farm Machinery Training and Testing Institute Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

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COMMERCIAL (ICT)

7.1 Rate of work

- The rate of work was recorded as 0.423 to 0.453 ha/h and the corresponding forward speed as 4.38 to 4.55 kmph.
- The time required to cover one-hectare area was recorded as 2.21 to 2.36 h.

7.2 Quality of work

- The field efficiency was recorded as 75.33 to 81.04 %.
- The Stubble/stalk cutting efficiency was recorded as 88.3 to 90.3%

7.3 Labour requirement:

In all, two skilled operators are needed for continuous operation of machine for day long period.

7.4 Missing percentage was recorded as 9.7 to 11.7 %

7.5 Wear analysis of blades:

Sr. No.	Initial Mass	Final Mass	Loss of	Percentage of wear	
	(g)	(g)	Mass (g)	After 26.0 h	Per hour
1	798.4	757.1	41.3	5.17	0.19
2	800.0	763.9	36.1	4.51	0.17
3	795.1	743.7	51.4	6.46	0.25
4	796.5	728.5	68.0	8.54	0.33
5	797.3	722.4	74.9	9.39	0.36
6	796.4	727.5	68.9	8.65	0.33
7	795.5	727.4	68.1	8.56	0.33
8	795.5	721.6	73.9	9.29	0.36

8. EASE OF OPERATION & ADJUSTMENTS

No difficulty was observed during the operation and adjustment of flail mover.

9. DEFECTS, BREAKDOWNS AND REPAIRS

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

IMP-544/1170

SRI VENKATESHWARA SVEW-4 FM FLAIL MOVER (Tractor Mounted, PTO Operated)

COMMERCIAL (ICT)

10. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATION

- 10.1 Shaft of flap for arresting straw/stone should be properly locked to ensure the safety of the operator & its prime mover.
- The specification of implement hitch is not conforming in full to the requirement of IS 4468 (Pt-I):1997. This should be looked into for corrective action.
- 10.3 Dimensions of PIC yoke is conforming to IS 4931:1995.
- 10.4 The hardness of blades conforms to the requirement of IS 6690:1981.
- 10.5 The chemical composition of rotary blades are not conforming to the requirement of IS 6690:1981. This should be looked into for corrective action.
- 10.6 Safety device in propeller shaft is provided.
- 10.7 The provided labeling plate should be as per the IS requirement

10.7 Adequacy of literature:

Operation, safety, general maintenance manual cum parts catalogue of the machine in English was provided in a single booklet form for reference during the test. However, this should 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	B
Dr. P.P. RAO DIRECTOR	P-P. Ran

11. APPLCIANT'S COMMENTS

"All your suggestions are noted and they are very useful for us to improve our future products".