



SRI LALITHA ENGINEERING SLE 2 HP CHAFF CUTTER
[Power Operated (Electric Motor)]



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

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Tractor Nagar, Garladinne-515 721, District: Anantapur (A.P.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Machine- 290/1045	SRI LALITHA ENGINEERING SLE 2 HP CHAFF CUTTER [Power Operated (Electric Motor)]	COMMERCIAL (ICT)
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Manufacturer : M/s. Sri Lalitha Engineering,
Flat No.: D-7, Industrial Estate,
Tetali- 534 218, Tanuku (M),
West Godavari (Dist.), Andhra Pradesh,
India.

Applicant : The Manufacturer

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Report No.: Machine-290/1045 Month: August

Year: 2019



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9.2.3 Labour requirement :

Three labours are required for continuous operation of the chaff cutter. Two labours are required for feeding & supplying the fodder crop and one for handling the chaff.

9.2.4 Ease of operation, adjustments and safety provisions:

- The machine is easy for installation and operation.
- The adjustment of clearance between shear plate and rotating blade is easy to perform.
- The cutter head & main power transmission are guarded by providing safety covers.
- The feed rollers are provided with spring loaded arrangement.
- The Chaff Cutter is provided with side plates and top cover plates to protect the feed rollers.

9.2.5 Wear analysis of blades :

Sl. No.	Initial mass(g)	Final mass(g)	Loss of mass (g)	Percentage of wear	Mass after 26.0 h of operation
1	804.8	800.7	4.1	0.51	0.02
2	809.5	805.2	4.3	0.53	0.02

10. EASE OF OPERATION & ADJUSTMENTS

No noticeable difficulty was observed during the operation and adjustment of the machine.

11. DEFECTS, BREAKDOWNS AND REPAIRS

No defects & breakdowns was observed during the entire test.

12. SUMMARY OF OBSERVATION, COMMENTS & RECOMMENDATIONS

- 12.1** Following modifications/improvements, being safety requirement, are required to be made to develop the chaff cutter as conforming to IS 15542:2005.
- 12.1.1** Cautionary notice as per IS 15542:2005 shall be written in vernacular language on a labeling plate.
- 12.1.2** Provision for flywheel lock pin need to be provided as safety aspect.
- 12.2** Blade should be marked with size code and thickness as per IS 1511 :1979 (Reaffirmed 2012).
- 12.3** The specifications of blades conforms to the requirements of IS 1511 : 1979 (Reaffirmed 2012).
- 12.4** All constituents, except manganese content of blade are conforming the IS 1511:1979 (Reaffirmed 2012). This should be looked into for corrective action.

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12.5 Most of the parameters are conforming to the requirement of IS 11459:1985 (Reaffirmed 2012), IS 1511:1979 (Reaffirmed 2012) and IS 15542:2005.

12.6 The following dimensions of chute for electric motor operated chaff cutter are not conforming to the recommendations of Dangerous Machine (Regulation) Rules, 2007 and needs to be looked into.

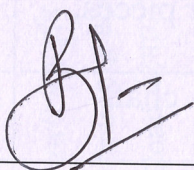

S. No.	Description	Observation	Remarks
i)	Provision for changing the angle of placement of trough shall be made.	Not provided	Does not conform
ii)	At the rear side of the trough a support shall be made.	Not provided	Does not conform
iii)	The trough on the shear plate side shall be covered up to a length of 450 mm min.	Not covered	Does not conform
iv)	The total length shall be min. of 900 mm.	755	Does not conform

12.7 Labeling plate should be provided as per the requirement of IS

12.8 Adequacy of literature supplied with the machine:

Operation, Service, Maintenance manual cum part catalogue of chaff cutter 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	

13. APPLICANT'S COMMENTS

"We will make all changes, which ever are possible in our future products".