

**THIS TEST REPORT IS VALID UPTO 30.11.2031**



**RR AGROTECH, RRRS ROTA SLASHER (TRACTOR MOUNTED)**



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

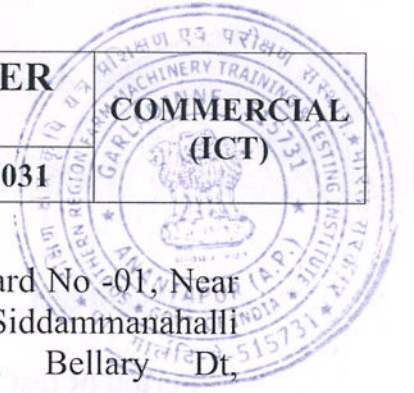
Southern Region Farm Machinery Training and Testing Institute

ट्रैक्टर नगर, गार्लदिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

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

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|              |   |                             |
|--------------|---|-----------------------------|
| IMP-423/1778 | <b>RR AGROTECH, RRRS ROTA SLASHER<br/>(TRACTOR MOUNTED)</b> | <b>COMMERCIAL<br/>(ICT)</b> |
|              | <b>THIS TEST REPORT IS VALID UP TO 30.11.2031</b>           |                             |



Manufacturer : M/s. RR AGRO TECH Ward No -01, Near Panduranga temple, Siddammanahalli Village, Kurugodu Tq, Bellary Dt, Karnataka-583115.

Applicant : The Manufacturer

**RR AGROTECH, RRRS ROTA SLASHER (TRACTOR MOUNTED)**

Report No.: IMP-423/1778

Month: December

Year: 2024



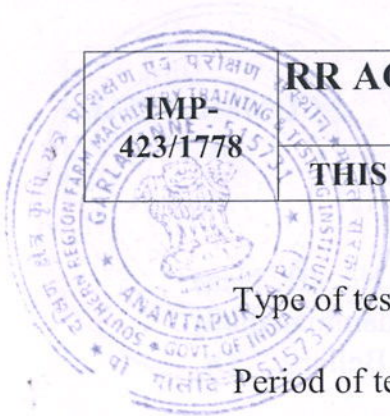
सत्यमेव जयते

**Government of India  
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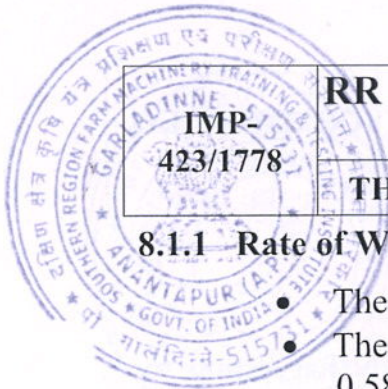
Type of test : COMMERCIAL (ICT)  
Period of test : November, 2024 to December, 2024  
Test Report No. : **IMP-423/1778**  
Month / Year : December, 2024

- i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii) The data given in this report pertain to the particular machine randomly selected by testing authority at manufacturer site.
- iii) The results presented in this report do not, in anyway, attribute to the durability of the machine.
- iv) This Test Report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training & Testing Institute, Garladinne, Anantapur (A.P.).
- v) This is a report on Commercial Test of Rota Slasher (Tractor Mounted) named “**RR AGROTECH, RRRS ROTO SLASHER (TRACTOR MOUNTED)**”. This report is valid up to **30.11.2031**, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023.

**SELECTED CONVERSIONS**

| S. No.                | Units                          | Conversion Factor      |
|-----------------------|--------------------------------|------------------------|
| 1                     | <b>Force</b>                   |                        |
|                       | 1 kgf                          | 9.80665 N              |
|                       |                                | 2.20462 lbf            |
| 2                     | <b>Power</b>                   |                        |
|                       | 1 hp                           | 1.01387 metric hp (Ps) |
|                       |                                | 745.7 W                |
|                       | 1 Ps                           | 735.5 W                |
| 1 kW                  | 1.35962 Ps                     |                        |
|                       | 3                              | <b>Pressure</b>        |
| 1 psi                 | 6.895 kPa                      |                        |
| 1 kgf/cm <sup>2</sup> | 98.067 kPa = 735.56 mm of Hg   |                        |
| 1 bar                 | 100 kPa = 10 N/cm <sup>2</sup> |                        |
| 1 mm of Hg            | 1.3332 m-bar                   |                        |





|   |                             |
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|---|-----------------------------|

### 8.1.1 Rate of Work

- The average speed of slashing was recorded as 3.59 to 3.90 kmph.
- The average area slashing by the machine was recorded as 0.504 to 0.582 ha/h.
- The average mass of stubble in 10 m (after operation) was recorded as 9.04 to 9.12 kg.

### 8.1.2 Quality of work

- The average stubble height after operation was recorded as 40 to 50 mm.
- The average mass of stubble after operation was recorded as 0.63 to 0.71 kg.

### 8.1.3 Labour requirement

- Two skilled labours are required for operating the machine continuously.

### 8.2 WEAR OF BLADES:

| S. No. | Initial Mass (g) | Final Mass (g) | Loss of mass (g) | Percentage of Wear |          |
|--------|------------------|----------------|------------------|--------------------|----------|
|        |                  |                |                  | After 26.0 h       | Per hour |
| 1      | 830              | 818            | 12               | 1.44               | 0.05     |
| 2      | 775              | 764            | 11               | 1.41               | 0.05     |

The hourly percentage wear of blades on mass basis was recorded as 0.05 %.

### 9. EASE OF OPERATION & ADJUSTMENTS

No noticeable difficulty was observed during the operation and adjustment of Paddy Stubble Slasher.

### 10. DEFECTS, BREAKDOWNS AND REPAIRS

No noticeable defect occurred in the Paddy Stubble Slasher during the test.

### 11. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATION

- 11.1 The specification of implement hitch does not conform fully to the IS: 4468 (Pt-I)-1997. It is recommended that the same should be provided conforming to the relevant Indian Standards.
- 11.2 The specification of blades does not conform fully to the requirement of IS: 1511-1979. This should be looked into for corrective action.



|              |   |                             |
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**11.3** Dimensions of PIC of implement, in full, do not conform to IS: 4931-1995 and therefore, it should be looked into for corrective action.

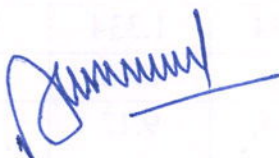
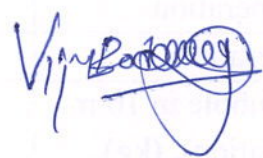

**11.4 Chemical Composition:**  
The chemical composition of blades does not meet, in full, the requirement of IS: 1511-1979. This should be looked into for corrective action.

**11.5 Marking /labeling:**  
The labeling plate does not reveal all the required information. It is therefore recommended that a suitable labeling plate covering all essential components, inter alia, the following must be provided:

- i) Size
- ii) Thickness
- iii) Batch code

**11.6 Adequacy of literature:**  
The Operating, Maintenance, Service manual and parts catalogue was supplied with the Paddy Stubble Slasher for reference during the testing in English. It is however, recommended that same may be revised as per IS: 8132- 1999.

**TESTING AUTHORITY**

|   |   |
|---|---|
| <br><b>Er. PRAMOD YADAV</b><br>AGRICULTURAL ENGINEER | <br><b>ER. VIJAY KUMAR BADAYA</b><br>SENIOR AGRICULTURAL ENGINEER |
| <br><b>Dr. B.M. NANDEDE</b><br>DIRECTOR              |   |



**12. APPLICANT COMMENTS**

**-NIL-**