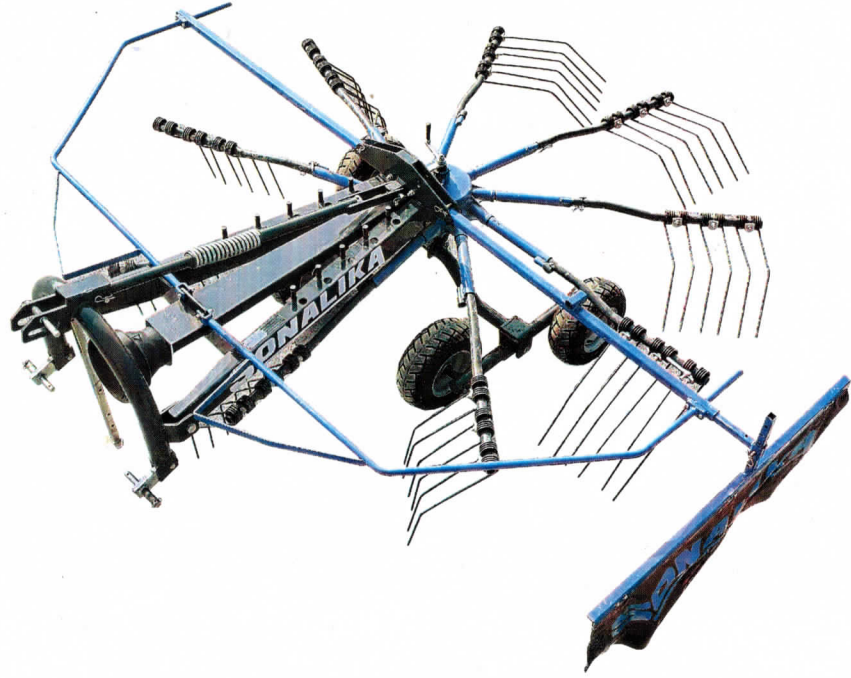


ब्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या/ No.: IMP-1032/2620/2020
माह/Month : December, 2020

THIS TEST REPORT VALID UP TO : 31st DECEMBER, 2027



**SONALIKA, SLRHR-9T, HAY RAKE
(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

उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Northern Region Farm Machinery Training and Testing Institute

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[ISO 9001:2015 CERTIFIED]

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5. RUNING-IN

The SLRHR-9T Hay Rake was run-in for 1.0 hours in loose straw of Paddy prior to start of the test as per the recommendation of the applicant.

6. FIELD TEST:

The SLRHR-9T Hay Rake driven by Farmtrac 60-F.8 tractor at engine throttle setting corresponding PTO speed of 540 rpm was tested in the field for 23.22 hrs for collecting of loose straw after Paddy harvesting by combine harvester. During test, field performance of SLRHR-9T Hay Rake was assessed with regard to quality of work, rate of work, fuel consumption, safety and soundness of construction etc. The atmospheric condition and performance parameter as observed during field tests are also given in **Annexure-I** and summarized in **Table-2**.

Table-2: Summary of field performance test.

Sr. No.	Observations	Range of observations
1.	Speed of operation, kmph	6.24 to 6.37
2.	Width of cut, m	2.42 to 2.56
3.	Over lap percent, %	7.25 to 12.32
4.	Rate of work, ha/h	1.232 to 1.358
5.	Fuel consumption	
	l/h	3.14 to 3.84
	l/ha	2.31 to 2.93
	l/t	0.34 to 0.71
6.	Field efficiency, %	78 to 85
7.	Hay charge transported	
	t/h	4.41 to 10.26
	t/l	1.41 to 2.93
8.	Straw collecting efficiency, %	93 to 96

RATE OF WORK AND FUEL CONSUMPTION:

During test, the speed of operation varied from 6.24 to 6.37 kmph for Paddy straw collection in windrows. The output (area covered) varied from 1.232 to 1.358 ha/h. & the average hourly fuel consumption varied from 3.14 to 3.84 l/h, the fuel consumption per unit area from 2.31 to 2.93 l/ha.

Quality of work:

- (i) The field efficiency ranged from 78 to 85 %.
- (ii) Hay collection in windrows ranged from 4.41 to 10.26 t/h
- (iii) The straw collecting efficiency ranged from 93 to 96 %.

7. ADJUSTMENTS, DEFECTS, BREAKDOWN AND REPAIR

No breakdown occurred during 23.22 hrs of machine operation.

8. CRITICAL TECHNICAL SPECIFICATIONS

Deferred till 31.03.2021 vide Ministry O.M. No 13-13/2020 M&T, (I&P) dated 22.12.2020

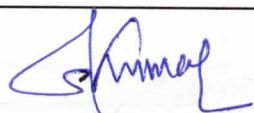
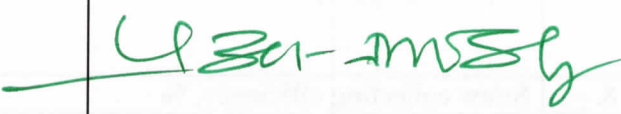
9. COMMENTS AND RECOMMENDATIONS

- 9.1 The Dimension of three point linkage of implement does not conform, in toto, to the requirements of IS: 4468(Part-1)-1997 and therefore, it may be looked into for corrective action.
- 9.2 The Dimensions of PIC of implement does not conform, in toto, to the requirements of IS: 4931-1995 and therefore, it may be looked into for corrective action.
- 9.3 The Dimensions of PIC yoke bore of implement does not conform, in toto, to the requirements of IS: 4931-1995 and therefore, it may be looked into for corrective action.
- 9.4 The grade of grease is not specified. It **MUST** be specified.

10. Technical Literature:

One booklet entitled "Owner's manual" was provided with the machine for reference during test. The same, however needs to be updated as per IS: 8132-1999.

TESTING AUTHORITY

SANJAY KUMAR AGRICULTURAL ENGINEER	
P.K. PANDEY DIRECTOR	

Draft test report compiled by Deny Hasnu Sr. Technician

11. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
11.1	9.1	We will take care the same in our regular production/vendor end.
11.2	9.2	We will take care the same in our regular production/vendor end.
11.3	9.3	We will take care the same in our regular production/vendor end.
11.4	9.4	We will be specified the grade of grease on the machine and same in service manuals.