

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

संख्या/No: Machine-595/1652
माह/Month: June, 2024

THIS TEST REPORT IS VALID UPTO 31.05.2031



**JAMNA, JAIHR-9 HAY RAKE
(TRACTOR MOUNTED, PTO OPERATED)**



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.)

[An ISO 9001:2015 CERTIFIED INSTITUTION]

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Tele./: 08551-286441

Machine-595/1652	JAMNA, JAIHR-9 HAY RAKE (TRACTOR MOUNTED, PTO OPERATED)	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Jai Automotive Components Limited
Bhagwanpur, Barwala Road, Dera Bassi,
S.A.S Nagar, Punjab -140507.

Applicant : M/s. Jamna Auto Industries Limited Jai Spring
Road, Yamuna Nagar, Dist. Yamunanagar-
135001, Haryana.

**JAMNA, JAIHR-9 HAY RAKE
(TRACTOR MOUNTED, PTO OPERATED)**

Report No.: **Machine-595/1652**

Month: **June**

Year: **2024**

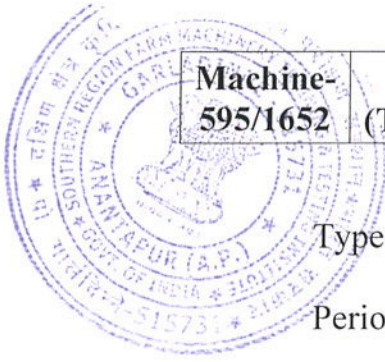


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Machine-
595/1652

**JAMNA, JAIHR-9 HAY RAKE
(TRACTOR MOUNTED, PTO OPERATED)**

**COMMERCIAL
(ICT)**

Type of test : COMMERCIAL (ICT)

Period of test : May, 2024 to June, 2024

Test Report No. : **Machine-595/1652**

Month / Year : June, 2024

- i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii) The test sample was selected randomly through virtual mode by the Institute.
- iii) The results presented in this report do not, in any way, attribute to the durability of the machine.
- iv) This report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training and Testing Institute, Garladinne, Anantapur (A.P.).
- v) This is a report on Commercial Test of Hay Rake named “**JAMNA, JAIHR-9 HAY RAKE (TRACTOR OPERATED)**”. This report is valid up to **31.05.2031, 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	Force	
	1 kgf	9.80665 N
		2.20462 lbf
2	Power	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	Pressure	
	1 psi	6.895 kPa
	1 kgf/cm ²	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm ²
	1 mm of Hg	1.3332 m-bar

Machine- 595/1652	JAMNA, JAIHR-9 HAY RAKE (TRACTOR MOUNTED, PTO OPERATED)	COMMERCIAL (ICT)
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9. EASE OF OPERATION & ADJUSTMENTS

No difficulty was observed during the operation and adjustment of Hay Rake.




10. DEFECTS, BREAKDOWNS AND REPAIR

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

11. COMMENTS & RECOMMENDATIONS

- 11.1** Dimension of power input connections (PIC) conform to the relevant code i.e. IS 4931:1995.
- 11.2** The specification of implement hitch does not conform fully to the IS 4468:1997 (Pt-I) (Reaffirmed 2012). It is recommended that the same should be provided conforming to the relevant Indian Standards.
- 11.3 Technical literature:**
Operation, Service manual, Operational flow and Part's catalogue in English was supplied with the Hay Rake for reference during the test. It is however, recommended that same may be revised and bought out as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel.

TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. P. KAMALABAI SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	



12. APPLICANTS COMMENTS

Sl.no.	Para no.	Parameter	Comments
1	11.2	Hitch pyramid	We will be taking care at R & D end and also taking care during our regular production.
2	11.3	Technical literature	We will be providing the same in Hindi and other regional languages at the time of delivery of the machine to the end user (Farmers).