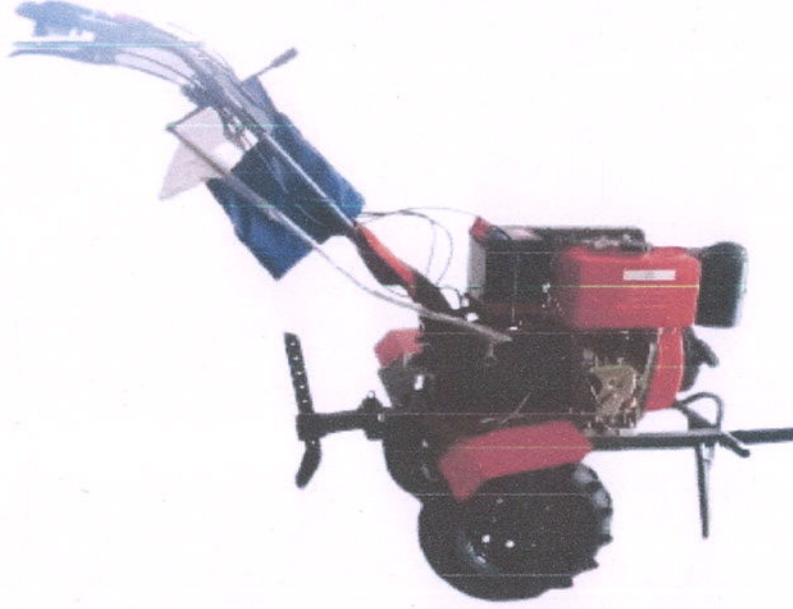


THIS TESTREPORT IS VALID UPTO 31.01.2034



KAVI, HT 135F JE POWER WEEDER



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

ट्रेक्टर नगर, गार्लदिन्ने-515 731, जिला: अनंतपुर (आ. प्र.)

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

[An ISO 9001:2015 CERTIFIED INSTITUTE]

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in

Machine- 732/1834	KAVI, HT 135F JE POWER WEEDER	COMMERCIAL (1 st Batch)
	THIS TEST REPORT IS VALID UP TO 31.01.2034	

Manufacturer, (apa) : M/s. Chongqing Huitian Machinery Manufacturing Co. Ltd., No. 55, North Tongtao Road, Taojia Town, Jiu Longpo District, Chongqing, P.C. 401 382, **China**.

Applicant : M/s. Kavi Agro Agency,
164, Kumaran Road, Sangiliyandapuram,
Trichy - 620 001, Tamil Nadu.

KAVI, HT 135F JE POWER WEEDER

Report no.: **Machine-732/1834** Month: **February** Year: **2025**

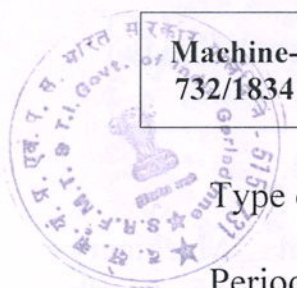


सत्यमेव जयते

Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
Southern Region Farm Machinery Training and Testing Institute
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)
[An ISO 9001:2015 CERTIFIED INSTITUTE]

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in



Machine-
732/1834

KAVI, HT 135F JE POWER WEEDER

THIS TEST REPORT IS VALID UP TO 31.01.2034

COMMERCIAL
(1st Batch)

Type of test : COMMERCIAL (1st Batch)
Period of test : November, 2024 to January, 2025
Test Report No. : **Machine-732/1834**
Month / Year of release : February, 2025

- 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 through virtual mode.
- iii) The results presented in this report do not, in any way, 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 the first batch test report and therefore, should be read in conjunction with the test report of base model i.e. "**KAVI, HT 135F JE POWER WEEDER**" which was tested under Initial commercial testing vide test report no **Machine-200/799**, released in **October, 2017**. This report is valid up to **31.01.2034**, 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- 732/1834	KAVI, HT 135F JE POWER WEEDER	COMMERCIAL (1 st Batch)
	THIS TEST REPORT IS VALID UP TO 31.01.2034	

19. COMMENTS & RECOMMENDATIONS

19.1 Engine Performance:

- 19.1.1 The maximum power was observed as 6.53 kW under natural ambient condition against the declared value of 6.4 kW.
- 19.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 282 g/kWh against the declared value of 320 g/kWh.
- 19.1.3 Back up torque of engine was observed as 10.32 % against declared value of 10 %.
- 19.1.4 Max. torque was observed as 22.87 Nm against the declared value of 22.5 Nm.

19.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 391 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

19.3 Hardness & chemical:

The hardness & chemical of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

19.4 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, interlaid, the following must be provided:

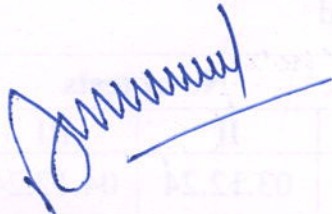



- i) Address of the manufacturer
- ii) Country of origin
- iii) Specific fuel consumption (g/kWh)

19.5 Technical literature:

Operators manual and parts catalogue of power weeder were supplied with test sample for reference during the test. It is however, recommended that same may be revised and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2019) for the sake of user & technical personnel in booklet form.

Machine- 732/1834	KAVI, HT 135F JE POWER WEEDER	COMMERCIAL (1 st Batch)
	THIS TEST REPORT IS VALID UP TO 31.01.2034	

TESTING AUTHORITY

 <p>Er. PRAMOD YADAV AGRICULTURAL ENGINEER</p>	 <p>Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER</p>
 <p>Dr. B.M. NANDEDE DIRECTOR</p> 	

20. APPLICANT'S COMMENTS

-NIL-