

THIS TEST REPORT IS VALID UP TO 30.09.2031



SHANKAR AGRO INDUSTRY, SHANKAR RAITHAMITRA ROTAVATOR



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 INSTITUTE]

IMP- 406/1733	SHANKAR AGRO INDUSTRY, SHANKAR RAITHAMITRA ROTAVATOR	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 30.09.2031	

Manufacturer, (apa) : M/s. SHANKAR AGRO INDUSTRY
Ward No.19, CMC No.6-1-1735/1, Shiva Jyoti
Nagar, Railway Station Road, Sindhnur,
Raichur Dist., Karanataka-584128.

Name of the applicant : The Manufacturer

SHANKAR AGRO INDUSTRY, SHANKAR RAITHAMITRA ROTAVATOR

Report No: IMP-406/1733

Month: October

Year: 2024



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

IMP-406/1733	SHANKAR AGRO INDUSTRY, SHANKAR RAITHAMITRA ROTAVATOR	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 30.09.2031	

Type of test : COMMERCIAL (ICT)

Period of test : September, 2024

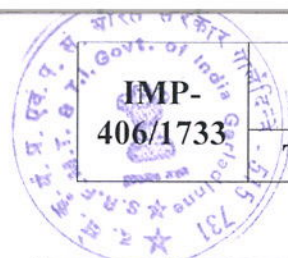
Test Report No. : IMP-406/1733

Month /Year of release : October, 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 for test by the testing authority by virtual mode.
- 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 rotavator named "SHANKAR AGRO INDUSTRY, SHANKAR RAITHAMITRA ROTAVATOR". This report is valid up to 30.09.2031, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023

SELECTED CONVERSIONS

Sl. 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



1	2	3	4	5
19	Literature	Operator manual, service manual and parts catalogue should be provided	Provided	Conform

14. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

14.1 No ingress of dust and water/mud in primary reduction gear box, secondary reduction gear box, and rotary axle bearing cap was observed.

14.2 Breather caps, oil level dipstick in primary and secondary gearbox are provided.

14.3 The chemical composition of rotor blades does not meet, in full, the requirement of IS: 6690-1981. This should be looked into for corrective action.

14.4 It is recommended to provide a device for changing the rotor speed to suit wider range of soil and soil moisture conditions.

14.5 Safety device is provided in rotavator propeller shaft.

14.6 Provision for parking stand is provided in rotavator.

14.7 **Marking /labeling:**

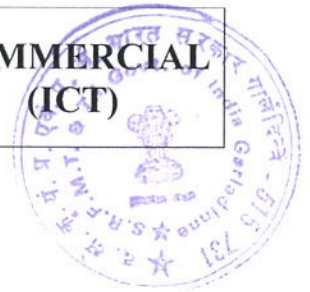
The labeling plate does not reveal all the required information. It is therefore recommended that a suitable labeling plate covering all essential components, inter alia, the following must be provided:

- i) Size (m) [Dia. of rotor × width of cut]
- ii) Recommended PTO speed of prime-mover, (rpm)

14.8 **Adequacy of literature:**

Operators manual and parts catalogue of rotavator 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.

IMP-406/1733	SHANKAR AGRO INDUSTRY, SHANKAR RAITHAMITRA ROTAVATOR	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 30.09.2031	



TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	
Dr. B.M. NANDEDE DIRECTOR	

15. APPLICANT COMMENTS

Reference No.	Applicant comments
14.3	We will take corrective action to meet the requirement of IS: 6690-1981.
14.4	We will be providing a device for changing the rotor speed in future production.
14.8	We will be brought out the literature as per IS 8132:1999 (Reaffirmed 2004).