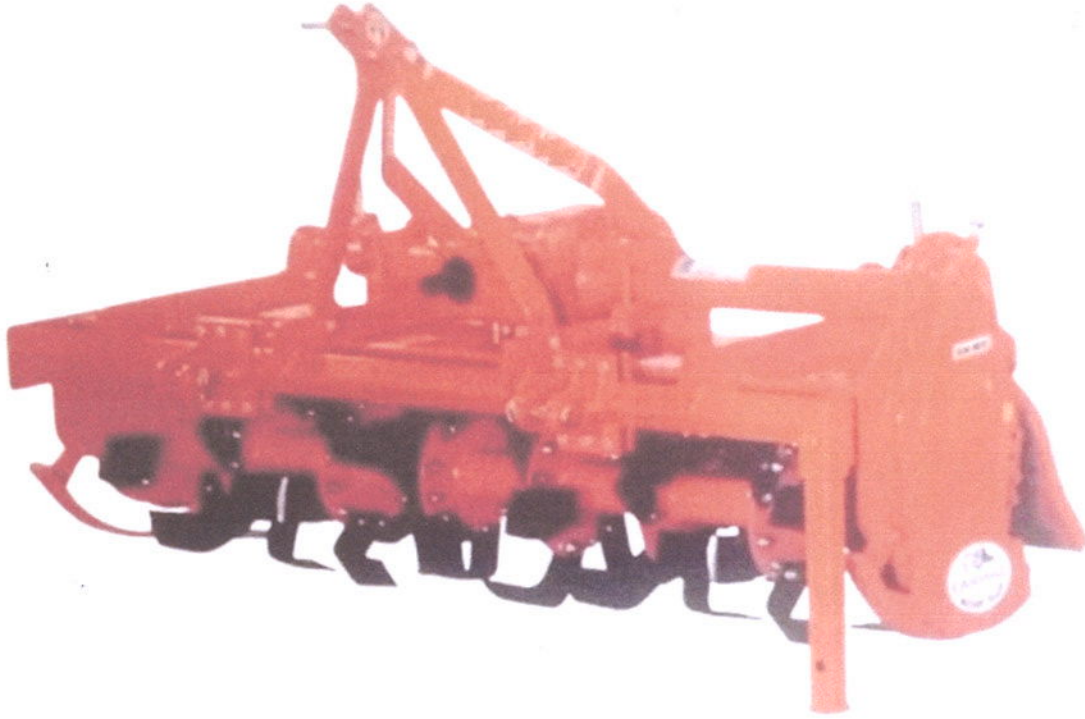


THIS TEST REPORT IS VALID UP TO 31.10.2031



AONE, CHALLENGER PLUS 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

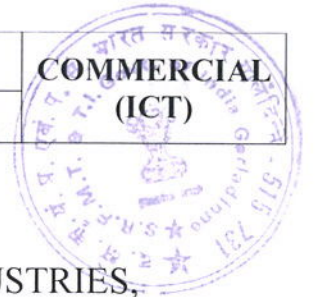
Southern Region Farm Machinery Training and Testing Institute

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

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

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IMP-418/1766	AONE, CHALLENGER PLUS ROTAVATOR	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 31.10.2031	



Manufacturer, (apa) : M/s. POOJA AGRO INDUSTRIES,
D.No. 7-1-273/67, Ward No. 30, Vala
Ballary Road, Sindhanur Rural Raichur
District, Karnataka, India.

Name of the applicant : The Manufacturer

AONE, CHALLENGER PLUS ROTAVATOR

Report No.: IMP-418/1766

Month: November

Year: 2024

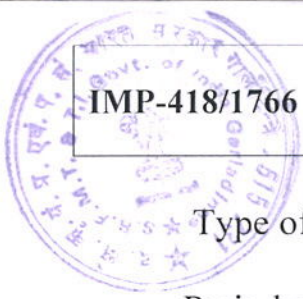


सत्यमेव जयते

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://srfmmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in



AONE, CHALLENGER PLUS ROTAVATOR
THIS TEST REPORT IS VALID UPTO 31.10.2031

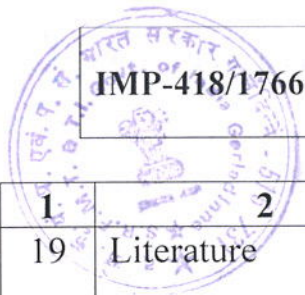
COMMERCIAL
(ICT)

Type of test : COMMERCIAL (ICT)
Period of test : October, 2024 to November, 2024
Test Report No. : **IMP-418/1766**
Month /Year of release : November, 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 “**AONE, CHALLENGER PLUS ROTAVATOR** “. This report is valid up to **31.10.2031, 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



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

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, interlaid, the following must be provided:

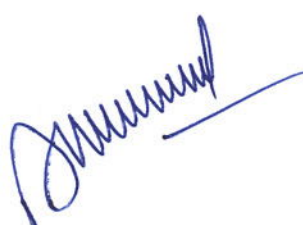
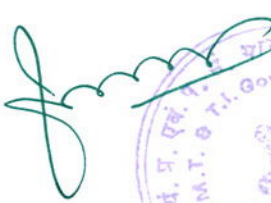

- i. Make
- ii. Country of origin
- iii. Size (m) [Dia. of rotor × width of cut]
- iv. Recommended PTO speed of prime-mover
- v. Maximum PTO Power required

14.8 Technical literature:

Operator's 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-418/1766	AONE, CHALLENGER PLUS ROTAVATOR	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 31.10.2031	

TESTING AUTHORITY

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

15. APPLICANT COMMENTS

Reference No.	Applicant comments
14.3	We will make some changes in blade material to meet the requirements of IS 6690:1981 (Reaffirmed 2022).
14.4	Your suggestion is noted, we will modify multi speed gear box in future products.
14.7	Your suggestion is noted, we will modify the labeling plate of machine as per your recommendations.
14.8	We will be brought out the literature as per IS 8132:1999 (Reaffirmed 2004).