

THIS TEST REPORT IS VALID UP TO 31.12.2031



POOJA, A1PHD-63 POST HOLE DIGGER



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.)

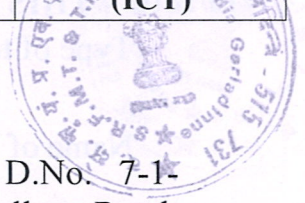
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

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Machine- 710/1810	POOJA, A1PHD-63 POST HOLE DIGGER THIS TEST REPORT IS VALID UPTO 31.12.2031	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s Pooja Agro Industries, D.No. 7-1-
273/67, Ward No. 30, Vala Ballary Road,
Sindhanur, Raichur District, Karnataka,
India.

Name of Applicant : The Manufacturer

POOJA, A1PHD-63 POST HOLE DIGGER

Report No.: **Machine-710/1810** Month: **January** Year: **2025**

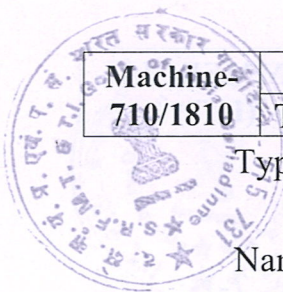


सत्यमेव जयते

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Type of test : COMMERCIAL(ICT)

Name of Machine : Post Hole Digger

Period of test : November, 2024 to January, 2025

Test Report No. : Machine-710/1810

Month / Year : January, 2025

- 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.
- 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 a report on Commercial Test of Post hole digger named **"POOJA, A1PHD-63 POST HOLE DIGGER"** This report is valid up to **31.12.2031**, 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

17. COMMENTS & RECOMMENDATIONS**17.1 Engine Performance:**

17.1.1 The maximum power was observed as 2.20 kW under natural ambient condition against the declared value of 2.22 kW.

17.2 The augur bit should be removable but it is welded to augur attachment. Whereas, for easy repair and replacement, it should be detachable type.

17.3 A fuel on/off knob may be considered for providing in the fuel system of engine.

17.4 The safety gadgets as mentioned in **Para 4.0**, were provided by the applicant during the test.

17.5 Transmission drive safety provision in the Post hole digger is not provided, whereas it is essential from the safety point of view. Therefore, it must be provided in the future product.

17.6 Noise measurement:

Max. Noise at operator's ear level was observed as 99 dB (A), which appears to be on higher side. Therefore, suitable corrective action to reduce the noise level should be taken.

17.7 Mechanical vibration:

The equivalent mechanical vibration on engine cover was observed to the maximum extent of 772 micron. Therefore, suitable corrective measure to reduce the vibration in the machine should be taken.

17.8 Chemical analysis:

The chemical composition of augur blade, worm and augur impact bit were does not conform the IS 6690:1981 (Reaffirmed 2012). This should be looked into for corrective action.

17.9 Labeling Plate:

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:


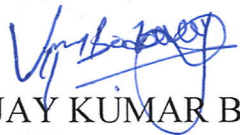

- i) Address of the manufacturer
- ii) Make
- iii) Country of origin
- iv) Engine no.

17.10 Adequacy of literature supplied with the machine:

A printed manual containing operation, maintenance, troubleshooting instructions and spare parts description in English, is provided by the applicant, which is not sufficient and it needs to be developed as per IS: 8132-1999 and also in other regional languages for the sake of users & technical personnel.

Machine- 710/1810	POOJA, A1PHD-63 POST HOLE DIGGER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UPTO 31.12.2031	

TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR	



18 APPLICANT'S COMMENTS

Sl. No.	Para No.	Comments
1	17.2	Now the augur bit is of a welded installation, however considering the for ease of repair and replacement we will find the feasibility for a detachable type and introduce the same.
2	17.3	A fuel ON/OFF knob introduction to the Fuel-line will be taken-up with the engine supplier for the possibilities of introduction of the above stated requirements.
3	17.4	The safety Gadgets wears have been recommended as essential to be used during operation and the same provided in each machine.
4	17.5	Transmission drive safety provision points will be studies and shall be incorporated as per the requirements in future products.
5	17.6	For the high noise (dB) level, as stated, critical machines' parameters will be analyzed and effective countermeasures will be taken to reduce the noise level to the requirements.
6	17.7	For the high amplitude of vibration at stated machine locations and especially at the engine cover, will be analyzed and effective countermeasures will be taken.
7	17.8	The chemical compositions with regard to the lower Carbon, Silicon and manganese (% of wt.) non-conformance of in the either of the stated parts augur blade, augur tip and the impact bit will be analyzed and we will implement required countermeasures to ensure the chemical composition as per IS 6690:1981 (Reaffirmed 2012).
8	17.9	The suggestion is noted and would work on to incorporate all details in name plate of the future machines.
9	17.10	The product literature, the operator manual, parts catalogue and service manual will be revised and updated as per IS 8132:1999 requirements And will bring out in Hindi & in other regional languages.