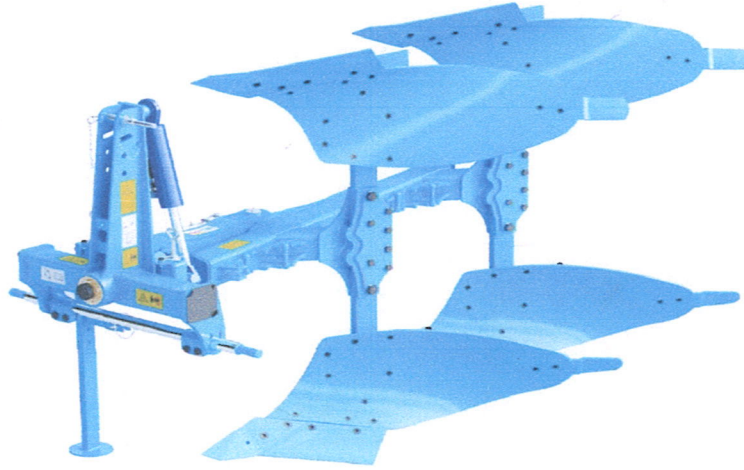


THIS TEST REPORT IS VALID UP TO 31.12.2031



**AONE, AONE STAR TWO BOTTOM HYDRAULIC REVERSIBLE
MB PLOUGH (Tractor Mounted)**



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]

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

E-mail: fmti-sr@nic.in

IMP-433/1802	AONE, AONE STAR TWO BOTTOM HYDRAULIC REVERSIBLE MB PLOUGH (Tractor Mounted)	
	THIS TEST REPORT IS VALID UP TO 31.12.2031	

Manufacturer : M/s Pooja Agro Industries, D.No. 7-1-273/67, Ward No. 30, Vala Ballary Road, Sindhanur, Raichur District, Karnataka, India.

Applicant : The manufacturer

**AONE, AONE STAR TWO BOTTOM HYDRAULIC REVERSIBLE
MB PLOUGH (Tractor Mounted)**

Report No.: IMP-433/1802

Month: January

Year: 2025



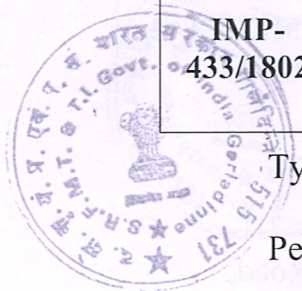
सत्यमेव जयते

Government of India
Ministry of Agriculture and Farmers Welfare
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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR (A.P.)	Page 2 of 25
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IMP-433/1802	AONE, AONE STAR TWO BOTTOM HYDRAULIC REVERSIBLE MB PLOUGH (Tractor Mounted)	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.12.2031	

Type of test : COMMERCIAL (ICT)
Period of test : November, 2024 to January, 2025
Test Report No. : IMP-433/1802
Month / Year of release : January, 2025

- The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- The data given in this report pertain to the particular machine randomly selected by testing authority through virtual mode.
- The results presented in this report do not in any way attribute to the durability of the machine.
- 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.).
- This is a report on Commercial Test of Two Bottom Hydraulic Reversible Mould Board Plough named " **AONE, AONE STAR TWO BOTTOM HYDRAULIC REVERSIBLE MB PLOUGH (Tractor Mounted)**". 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



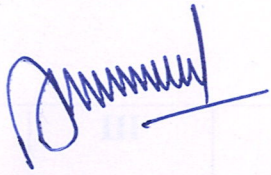
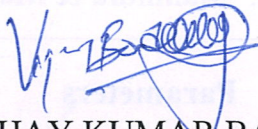
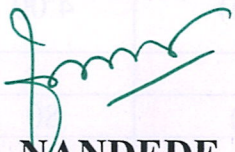
IMP-433/1802	AONE, AONE STAR TWO BOTTOM HYDRAULIC REVERSIBLE MB PLOUGH (Tractor Mounted)	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.12.2031	

11. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATION

- 11.1** The specification of plough share does not conform fully to the requirements of IS 10691: 1983. It should be looked into for corrective action.
- 11.2** The plough can be reversed at the turning with the help of hydraulic reversing mechanism when the three point linkage of tractor lifts the implement.
- 11.3** **Chemical analysis:**
Chemical composition of Share point and bar point does not conform the requirement of IS 6690: 1981. This should be looked into for corrective action.
- 11.4** **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) Country of origin
 - ii) Required size of prime mover (kW)
 - iii) Weight (Kg)
- 11.5** **Adequacy of literature supplied with the machine:**
Operation, Service, Maintenance manual cum part catalogue of Hydraulic Reversible Mould Board Plough in English was provided in a single booklet form for reference during the test. However, this may be brought out in Hindi and other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel.

IMP-433/1802	AONE, AONE STAR TWO BOTTOM HYDRAULIC REVERSIBLE MB PLOUGH (Tractor Mounted)	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 31.12.2031	

TESTING AUTHORITY

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



12 APPLICANT'S COMMENTS

Sl. No.	Para No.	Comments
1	11.1	The suggestion is noted and the company would work on the same to bring the plough share and other components to meet the requirement of IS: 10691-1983.
2	11.2	The suggestion is noted and the company would work on the same to bring specification of implement hitch to meet the requirement of IS: 4468 (Pt-1)-1997.
3	11.3	We will do corrective improvement in the future product for chemical composition of plough share and bar point share to meet the requirement of IS: 6690:1981
4	11.4	The suggestion is noted and would work on to incorporate all details in name plate of the implement.
5	11.5	We will be brought out literature as per IS: 8132-1999.