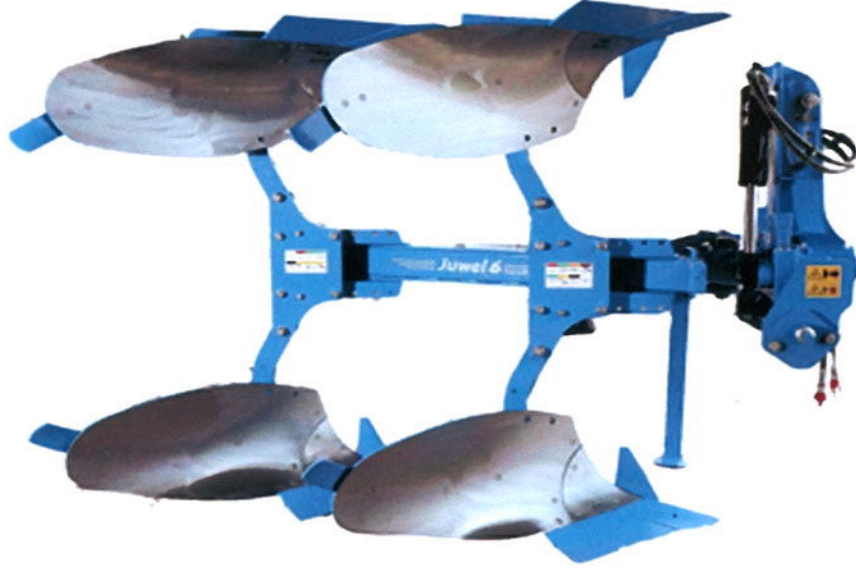


THIS TEST REPORT IS VALID UP TO 30.09.2031



**LEMKEN, JUWEL 6 M HYDRAULIC REVERSIBLE TWO BOTTOM
MOULD BOARD 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

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

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

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IMP-410/1742	LEMKEN, JUWEL 6 M HYDRAULIC REVERSIBLE TWO BOTTOM MOULD BOARD PLOUGH (Tractor Mounted)	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 30.09.2031	



Manufacturer : M/s. Lemken India Agro Equipment Private limited, D-59, MIDC, Butibori, Nagpur, Maharashtra-441108.

Applicant : The manufacturer

LEMKEN, JUWEL 6 M HYDRAULIC REVERSIBLE TWO BOTTOM MOULD BOARD PLOUGH (Tractor Mounted)

Report No.: IMP-410/1742

Month: October

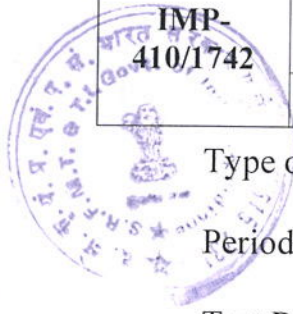
Year: 2024



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

E-mail: fmti-sr@nic.in



IMP-410/1742	LEMKEN, JUWEL 6 M HYDRAULIC REVERSIBLE TWO BOTTOM MOULD BOARD PLOUGH (Tractor Mounted)	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 30.09.2031	

Type of test : COMMERCIAL (ICT)
Period of test : August, 2024 to September, 2024
Test Report No. : IMP-410/1742
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 by testing authority at applicant site.
- 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 Two Bottom Hydraulic Reversible Mould Board Plough named " **LEMKEN, JUWEL 6 M HYDRAULIC REVERSIBLE TWO BOTTOM MOULD BOARD PLOUGH (Tractor Mounted)**". 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

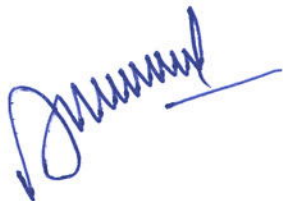


S. No	Units	Conversion Factor
1	Force	
	1 kgf	9.80665 N
		2.20462 lbf
2	Power	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	Pressure	
	1 psi	6.895 kPa
	1 kgf/cm ²	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm ²
	1 mm of Hg	1.3332 m-bar

IMP-410/1742	LEMKEN, JUWEL 6 M HYDRAULIC REVERSIBLE TWO BOTTOM MOULD BOARD PLOUGH (Tractor Mounted)	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 30.09.2031	

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 specification of implement hitch does not conform fully to the IS 4468 (Pt-I):1997. It is recommended that the same should be provided conforming to the relevant Indian Standards.
- 11.3** 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.
- 11.4 Chemical analysis:**
Chemical composition of Share nose and Share does not conform the requirement of IS 6690: 1981. This should be looked into for corrective action.
- 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.

TESTING AUTHORITY

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

12. APPLICANT COMMENTS

Sl. No.	Para No.	Comments
1	11.2	Implement Hitch is designed to match with Cat-II and Cat-III tractors 3 point linkage.
2	11.5	LEMKEN India shall take out the operator manuals/parts catalog in vernacular Indian languages as mentioned in the report.