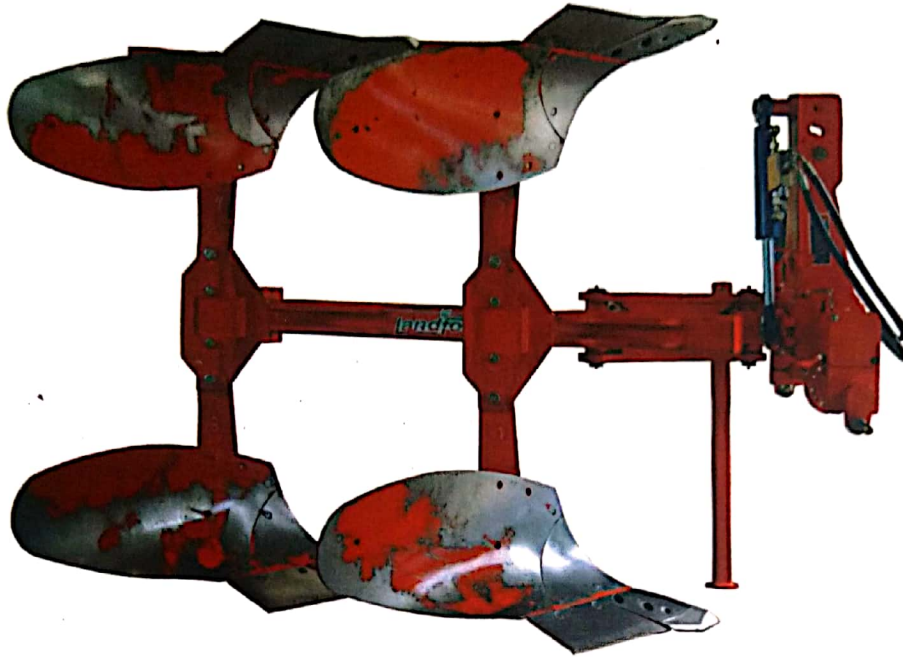




व्यावसायिक परीक्षण रिपोर्ट  
COMMERCIAL TEST REPORT

संख्या / No.: Imp-222/295

माह / Month: December 2017



**LANDFORCE, TWO BOTTOM HYDRAULIC REVERSIBLE M. B. PLOUGH**  
Model: M-2FAR (Tractor Mounted)



सत्यमेव जयते

भारत सरकार

GOVT OF INDIA

कृषि एवं किसान कल्याण मन्त्रालय

MINISTRY OF AGRICULTURE & FARMERS WELFARE

कृषि, सहकारिता एवं किसान कल्याण विभाग

DEPARTMENT OF AGRICULTURE, COOPERATION & FARMERS WELFARE

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### 8.3.3.3 Share nose of rear bottom I :

| S. No. | Notation     | Dimension (mm) |       | Wear (%)     |          |
|--------|--------------|----------------|-------|--------------|----------|
|        |              | Initial        | Final | After 25.4 h | Per hour |
| 1.     | Total length | 248.9          | 240.8 | 3.25         | 0.03     |
| 2.     | Total width  | 136.5          | 135.3 | 0.88         | 0.03     |

### 8.3.3.4 Share nose of rear bottom II :

| S. No. | Notation     | Dimension (mm) |       | Wear (%)     |          |
|--------|--------------|----------------|-------|--------------|----------|
|        |              | Initial        | Final | After 25.5 h | Per hour |
| 1.     | Total length | 248.1          | 240.6 | 3.02         | 0.12     |
| 2.     | Total width  | 136.8          | 135.4 | 1.02         | 0.04     |

Remarks: The hourly percentage of wear on dimension basis was observed as 0.01 to 0.16.

## 9. EASE OF OPERATION AND ADJUSTMENTS

No noticeable difficulty was observed during the operation and adjustment of Two Bottom Reversible M.B plough.

## 10. DEFECTS, BREAKDOWNS AND REPAIRS

No breakdown was occurred during 25.4 h of field test of the Two Bottom Hydraulic Reversible M.B plough.

## 11. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATIONS

- 11.1 The dimensions of the share and share nose of plough does not conforms to IS: 10691-1983. This should be looked into for corrective action for standardisation.
- 11.2 The dimension of three point linkage, hitch pyramid does not conform to IS: 4468-1997. Therefore, this should be looked into for corrective action.
- 11.3 The chemical composition in share was not within its range as per IS:10691-1983. This is recommended to looked into for corrective action of standardisation.
- 11.4 The thickness of the cutting edge was not as per IS: 10691-1983. This is recommended to looked, for corrective measures.
- 11.5 **Labelling plate :**  
Product, model, serial number and mfg. Year is indicated on the labelling plate. However, it is recommended to specify size and power requirement of the implement.
- 11.6 **Rate of work :**
- The area cover was recorded as 0.245 to 0.282 ha/h at the speed of operation from 3.86 to 3.98 km/h.
  - The time required to cover one hectare area was recorded as 3.55 to 4.08 h.



**11.7 Quality of work:**

- a) The depth of cut was recorded as 21 to 23 cm.
- b) Average working width was observed as 75 to 81 cm.
- c) Field efficiency was observed as 82.8 to 88.8 %.

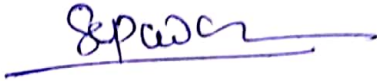


**11.8** The hourly wear percentage of share on mass basis was recorded as 0.05 & 0.06 and share bar was recorded as 0.09 & 0.11.

**11.9** The hourly wear percentage of share on dimension basis was recorded as 0.05 to 0.09 and share nose was recorded as 0.01 to 0.16.

**11.10 Technical literature :**

Operator manual, service manual, parts manual covered in English was submitted along with the implements. However, it is recommended to bring out the same covered in Hindi and other vernacular languages as per IS: 8132-1999

**TESTING AUTHORITY**

|   |  |
|---|--|
| S. G. PAWAR<br>AGRICULTURAL ENGINEER          |  |
| A.K. UPADHYAY<br>SENIOR AGRICULTURAL ENGINEER |  |
| K.K. NAGLE<br>DIRECTOR                        |  |

Draft Test Report Compiled By -

Sh. Rahul Prajapati

**12. APPLICANT'S COMMENTS**

- 12.1 We agree with the report. However in respect of non-conformities, we will make the improvements in accordance to the relevant BIS Standards in next production line.