

**व्यावसायिक परीक्षण रिपोर्ट**  
**COMMERCIAL TEST REPORT**

**संख्या / No. : Imp.118/165**  
**माह / Month : November, 2012**



**MB-4 ROTAVATOR (TRACTOR MOUNTED)**



**भारत सरकार**  
**GOVT OF INDIA**

**कृषि मन्त्रालय**  
**MINISTRY OF AGRICULTURE**

**कृषि एवं सहकारिता विभाग**

**DEPARTMENT OF AGRICULTURE AND COOPERATION**

**उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान**

**NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE**

**विश्वनाथ चारिआलि, जिला-शोणितपुर (असम)**

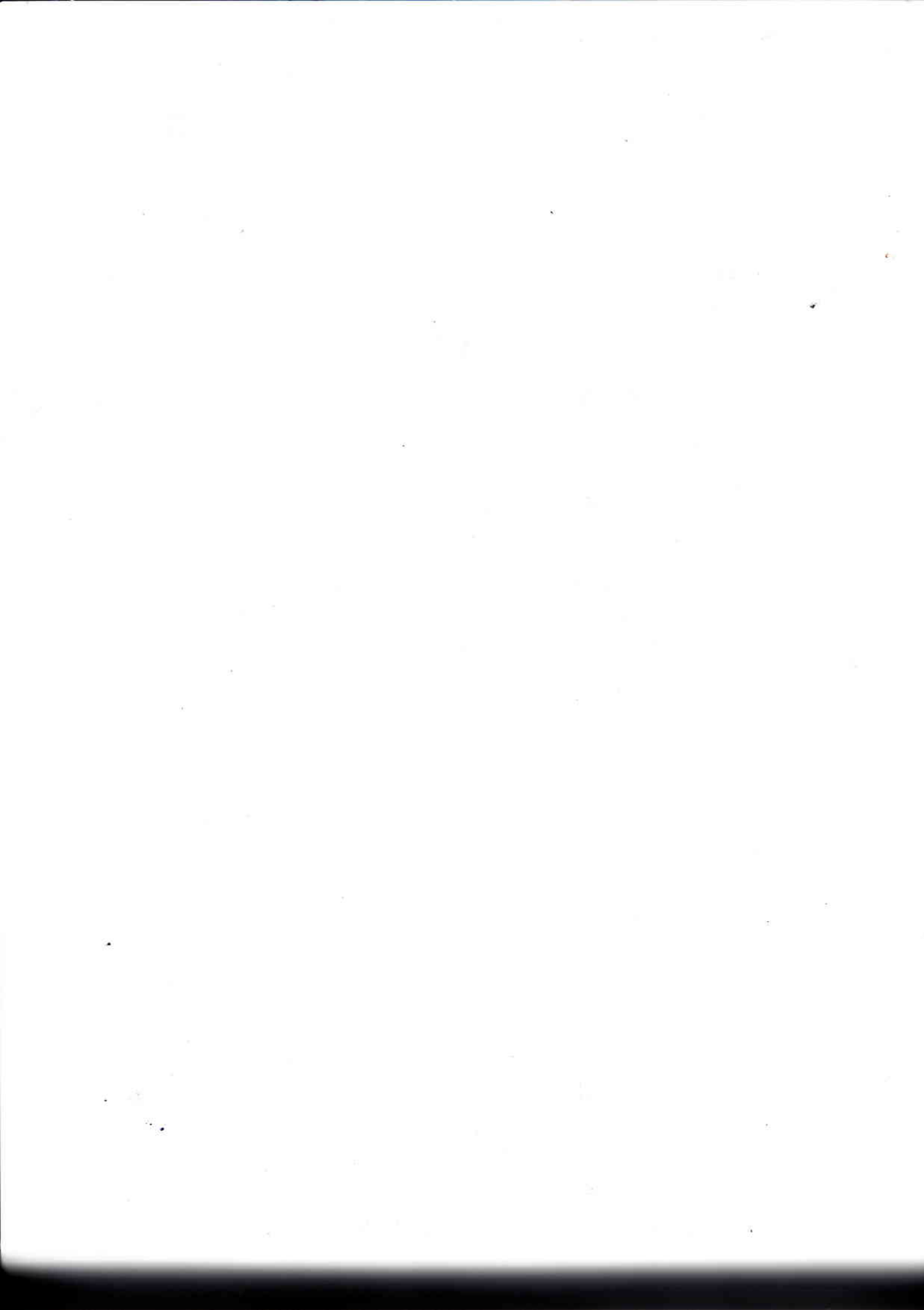
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Imp.118/165	MB-4 Rotavator (Tractor - mounted) [ Commercial Test ]	6
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#### 4. SPECIFICATIONS

##### 4.1 General:

Manufacturer	: M/s M.B. Farm Machinery (P) Ltd. Ludhiana – Maler Kotla Road, Village Bool, Ludhiana
Name of machine	: Rotavator
Type	: Tractor-Mounted (Gear Drive)
Make	: M.B.
Model	: MB-4
Serial number	: N.A.
Year of manufacture	: N.A.
Type of blade	: Hatchet (L-Shaped)
Working width of implement (mm)	: 1185
Recommended power source	: Not recommended
Prime Mover used during test	: New Holland 5500 Tractor

Imp.118/165	MB-4 Rotavator (Tractor - mounted) [ Commercial Test ]	24
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### **8. EFFECTIVENESS OF SEALINGS**

After completion of dry & wet land operation for 26.9 and 15.7 hours respectively, the implement was dismantled for checking the effectiveness of sealing provided against ingress of dust, and water/mud in various sub-assemblies/components. The observations are given in ensuing table:

Sl. No.	Location	Whether ingress of mud and/or water was observed (Yes/No)
1.	Primary reduction gear box	No
2.	Secondary reduction gear box	No
3.	Rotor assembly (hub)	No

### **9. EASE OF OPERATION & ADJUSTMENTS**

No noticeable difficulty was observed during the operation and adjustment of rotavator.

### **10. DEFECTS, BREAKDOWNS AND REPAIRS**

No noticeable defect or breakdown was observed during 42.6 hrs. of operation of rotavator. However, one rotor bolt was broken after completion of 21.9 hours of dry field operation.

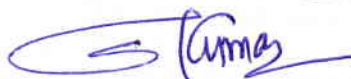

### **11. COMMENTS AND RECOMMENDATIONS**

- 11.1 The specifications of implement hitch, does not conform to the IS: 4468 (Part-1)-1997. Hence, it is recommended that implement should be provided with the hitch conforming to relevant Indian standards.
- 11.2 Dimensions of PIC of implement & PIC yoke bore of PTO drive shaft, does not conform to IS: 4931-1995 and, therefore, it should be looked into for corrective action.
- 11.3 Suitable stickers, labeling plates indicating the grade & change period of oil used in gear boxes should be pasted on Rotavator.

Imp.118/165	MB-4 Rotavator (Tractor - mounted) [ Commercial Test ]	25
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- 11.4 Hardness and chemical composition of rotor blades does not conform to relevant Indian Standards. This needs to be looked into for necessary corrective action.
- 11.5 Month/Year of manufacture's name and trade mark, (if any), size of implement and power required should also be indicated on the labeling plate.
- 11.6 **Technical literature:**  
A booklet, named Instructional manual and Parts list was provided for reference during testing.  
The tractor(s), with which machine is considered suitable for operating in the field, should be prominently mentioned in the Technical literature.

### TESTING AUTHORITY

SANJAY KUMAR AGRICULTURAL ENGINEER	
M. K. VISHWAKARMA DIRECTOR	

Test conducted/report compiled by : P.C. Dihingia, STA

### 12. APPLICANT'S COMMENTS

No comments have been received from the applicant on this machine.