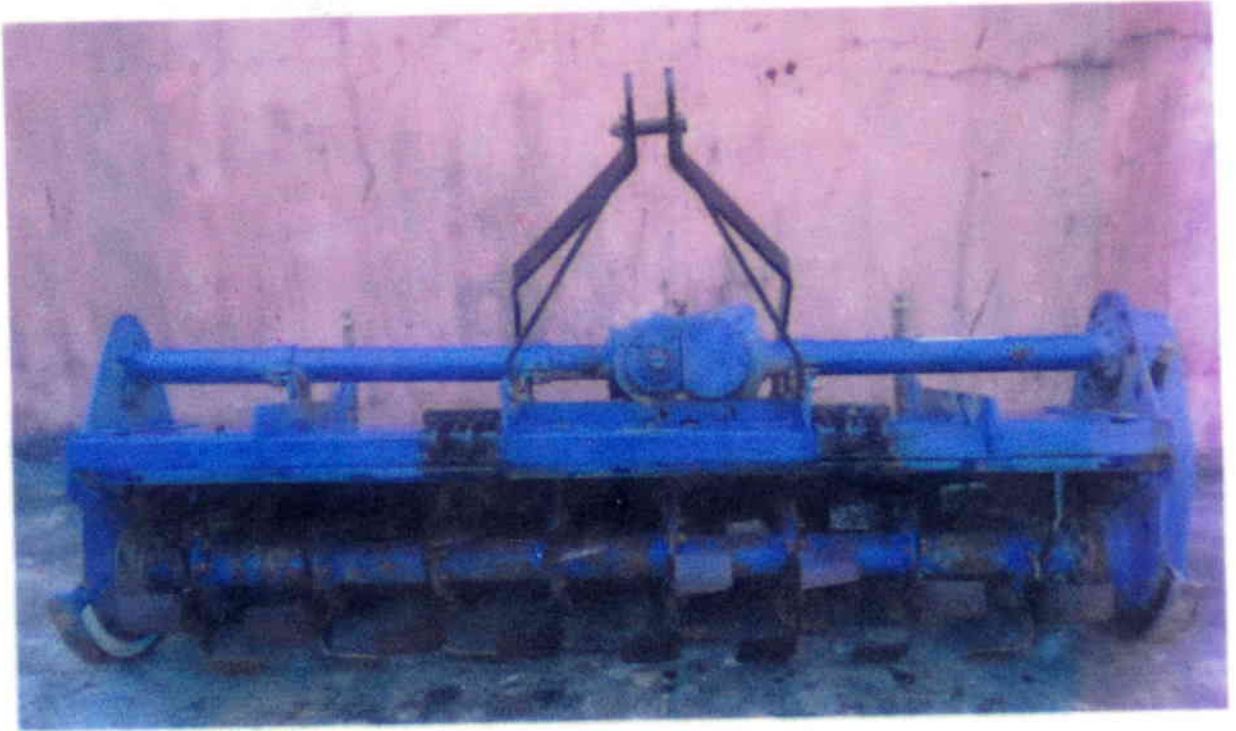


REFERENCE COPY

व्यावसायिक परीक्षण रिपोर्ट  
COMMERCIAL TEST REPORT

संख्या / No. : Imp. 117/164  
माह / Month: October, 2012



**MB RT-7 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

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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	: RT-7
Serial number	: N.A.
Year of manufacture	: N.A.
Type of blade	: Hatchet (L-Shaped)
Working width of implement (mm)	: 924
Recommended power source	: 50 HP
Prime Mover Used during test	: New Holland 5500

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### 8. EFFECTIVENESS OF SEALINGS

After completion of dry & wet land operation for 25.4 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	Yes
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 41.1 hours of field operation.

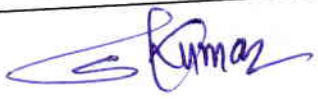

### 11. COMMENTS AND RECOMMENDATIONS

- 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.
- 11.3 Suitable stickers, labeling plate indicating the grade & change period of oil used in gear boxes should be pasted on Rotavator.

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- 11.4 Hardness and chemical composition of rotor blades do not conform to relevant Indian Standards. This needs to be looked into for 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 The ingress of mud and/or water was observed in the primary reduction gear box. It shows that the sealing provided against of mud and/or water was not effective. Hence, the quality of sealing should be improved.
- 11.7 **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 : ANSHUL PANDEY  
SENIOR TECHNICAL ASSISTANT  
(IN.)



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## 12. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
12.1	11.1	We will do and provide all implements as per Indian Standards.
12.2	11.2	PIC Yoke bore of PTO shaft will be changed as per IS: 4931-1995.
12.3	11.3	The stickers will be put indicating the grade and change period of oil and labeling plate.
12.4	11.4	Blade hardness will be changed as per Indian Standards.
12.5	11.5	We will place labeling plate of all details on the Rotary Tiller.
12.6	11.6	We will improve the quality of sealing system.
12.7	11.7	Operator's manual with all details will be provided.