



Baba Rotavator (BRTG MS 175)



सत्यमेव जयते

भारत सरकार
GOVT OF INDIA

कृषि मन्त्रालय

MINISTRY OF AGRICULTURE

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4. SPECIFICATIONS

4.1 General:

Manufacturer : BABA FARM EQUIPMENTS,
 K-9, Industrial Area, Begrajpur,
 Muzaffar Nagar (U.P.)-251203

 Name of machine : Rotavator

 Make : BABA

 Model : BRTG MS 175

 Type : L-Type, Gear Drive

 Serial number : 1576

 Year of manufacture : 2012

 Type of blade : Hatchet (L-Type)

 Working width of implement(mm) : 1730

 Recommended power source : 46 hp and above

 Prime Mover Used during test : John Deere 5310 Tractor

4.2 Constructional Details (Refer Fig.1):

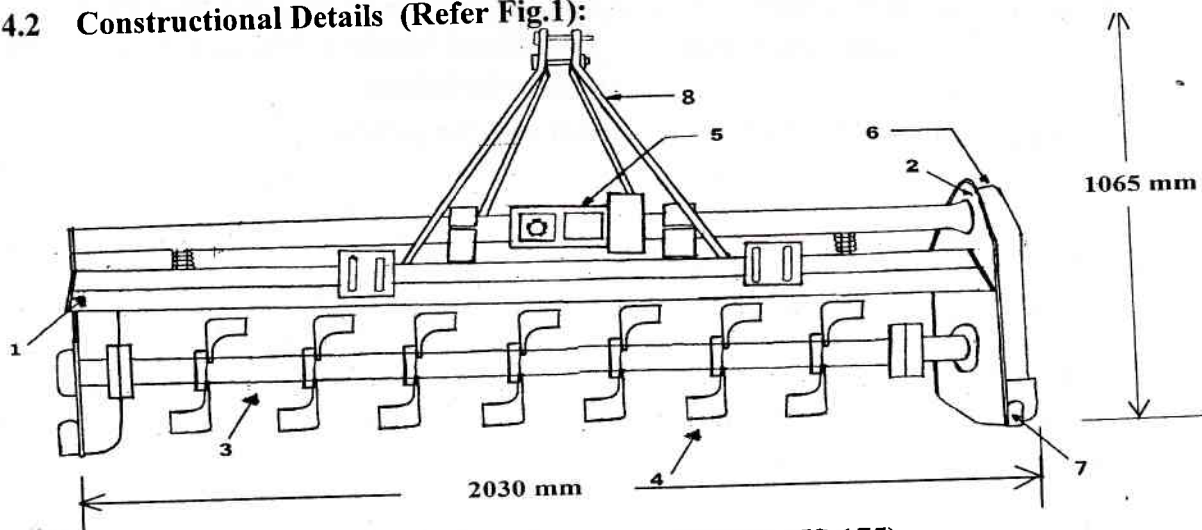


Fig.1: Baba Rotavator (BRTG MS 175)



8. EFFECTIVENESS OF SEALINGS

After completion of dry & wet land operation for 25.6 and 15.3 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.

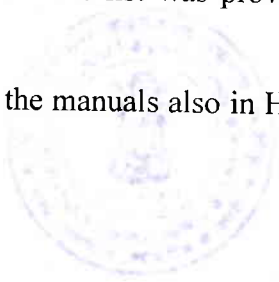
10. DEFECTS, BREAKDOWNS AND REPAIRS

No noticeable defect or breakdown was observed during 40.9 hours of field operation.

11. COMMENTS AND RECOMMENDATIONS

- 11.1 The specifications of implement hitch, in full, do 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, in full, do not conform to IS:4931-1995 and therefore, it should be looked into for corrective action.
- 11.3 Chemical composition of rotor blade does not conform to IS: 6690-2002. This needs to be looked into for corrective action in production level.
- 11.4 Matching power should also be indicated on the labeling plate.
- 11.5 **Technical literature:**
A booklet, named Instruction manual and Parts list was provided for reference during testing.

However, it is recommended to bring out the manuals also in Hindi and other vernacular languages as per IS: 8132-1999.

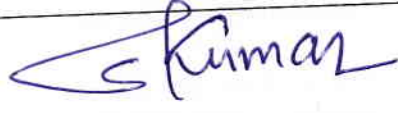
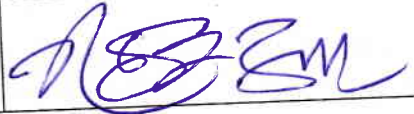


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12. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
12.1	11.1	The implement Hitch has been suitably modified to match & conform the SI:4468 Standard
12.2	11.2	Dimension of PIC has been changed to conform SI:4931-1995
12.3	11.3	The matter is being taken up with the blade supplier for necessary correction. In the mean time blade supplier with correct chemical composition will be explored.
12.4	11.4	Labeling plate is being modified to carry the matching Horse Power of the Tractor.
12.5	11.5	The new Operator's Handbook has already been modified to carry Hindi Language along with English. Other vernacular languages will be introduced in our future prints.

TESTING AUTHORITY

SANJAY KUMAR AGRICULTURAL ENGINEER	
M. K. VISHWAKARMA DIRECTOR	

Test conducted and report compiled by : P.C DIHINGIA
INSTRUCTOR

ANSHUL PANDEY
STA (INST.)



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