

व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No. : Imp. 94/138
माह / Month : August, 2011



BABA BRTG 175 ROTAVATOR

REC 1268 (7)
DATE 19/9/11



सत्यमेव जयते

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 BABA FARM EQUIPMENTS
J - 1, Industrial Area,
Begrajpur, Muzaffarnagar (U.P.) - 251 203
- Name of machine : Rotavator
- Type : Tractor-Mounted (Gear drive)
- Make : BABA
- Model : BRTG-175
- Serial number : 1413 (As per labeling plate)
- Year of manufacture : 04 11 (As per labeling plate)
- Type of blade : Hatchet (L-Shaped)
- Working width of
implement (mm) : 1720
- Power source as
recommended : Above 46 HP (apa)
- Prime Mover Used during
test : New Holland 5500

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9. EASE OF OPERATION & ADJUSTMENTS

- 9.1 The PTO drive shaft has two telescopic sections, to shorten or lengthen the drive shaft.
- 9.2 Depth adjustment can be made by raising or lowering the skids.
- 9.3 The PTO drive shaft is provided with a shear bolt at implement end for safety during overload. A guard cover is also provided over the PTO drive shaft.
- 9.4 Implement does not have provisions to vary rotor shaft speed to cater to different soil and moisture conditions.

10. DEFECTS, BREAKDOWNS AND REPAIRS

After completion of 23.99 h of dry land operation, shear bolt of PTO drive shaft found broken. No other major defect or breakdown was observed during 42.66 hours of field operation.



11. COMMENTS AND RECOMMENDATIONS

- 11.1 The specifications of implement hitch do not conform to the IS: 4468 (Pt-I)-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 do not conform to IS: 4931-1995 and should be looked into.
- 11.3 Dimensions of PIC Yoke bore of PTO drive shaft do not conform to the requirements of IS: 4931-1995. It should be looked into for corrective action.

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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 Suitable stickers indicating the grade & change period of oil used in gear boxes should be pasted on Rotavator.
- 11.6 Name of manufacturer is written as BABA FARM EQUIPMENTS on the application, whereas it is written as BABA FARM EQUIPMENT on the labeling plate, which is erroneous. Correction needs to be done.
- 11.7 It is recommended that arrangement for changing the rotor speed to suit various soils and moisture condition should be provided.
- 11.8 Make, size of implement and power requirement should also be indicated on the labeling plate.

TESTING AUTHORITY

P. K. PANDEY SENIOR TEST ENGINEER	
M.K. VISHWAKARMA DIRECTOR	

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12. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
12.1	11.1	The Specifications are being re-checked and will be implemented with immediate effect.
12.2	11.2	As suggested, PIC dimension are being brought in line with IS 4931 – 1995.
12.3	11.3	Corrective action will be taken as per IS 4931 – 1995.
12.4	11.4	The matter is being taken up with the supplier of blades for corrective action.
12.5	11.5	Relevant stickers will be developed and implemented soonest possible.
12.6	11.6	Correction of name will be done with immediate effect.
12.7	11.7	We have already developed the suggested gear box which is undergoing our own trials.
12.8	11.8	Your recommendations will be implemented along with correction of the name on the Name plate

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