

व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No. : Imp. 98/142
माह / Month : October, 2011



BABA BRTG 125 ROTAVATOR



सत्यमेव जयते

भारत सरकार
GOVT OF INDIA

कृषि मन्त्रालय

MINISTRY OF AGRICULTURE

कृषि एवं सहकारिता विभाग

DEPARTMENT OF AGRICULTURE AND COOPERATION

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NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE

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4. SPECIFICATIONS

4.1 General:

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| 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 - 125 |
| Serial number | : 1411 (As per labeling plate) |
| Year of manufacture | : 04 11 (As per labeling plate) |
| Type of blade | : Hatchet (L-Shaped) |
| Working width of implement (mm) | : 1180 |
| Power source | : Not recommended |
| Prime Mover Used during test | : New Holland 5500 |

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| 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 occurred during 41.93 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 & PIC yoke bore of PTO drive shaft, in full, do not conform to IS: 4931-1995 and, therefore, should be looked into.
- 11.3 Suitable stickers, indicating the grade & change period of oil used in gear boxes, should be pasted on rotavator.
- 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 It is recommended that arrangement for changing the rotor speed to suit various soils and moisture condition should be provided.

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11.6 Make, size of implement and power requirement should also be indicated on the labeling plate.



11.7 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. Necessary correction needs to be done.

11.8 **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

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| 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 | PIC dimension are being brought in line with IS: 4931-1995. |
| 12.3 | 11.3 | Relevant stickers will be developed and implemented soonest possible. |
| 12.4 | 11.4 | The matter is being taken up with the supplier of blades for corrective action. |
| 12.5 | 11.5 | We have now developed the suggested gear box which is undergoing our own trials. |
| 12.6 | 11.6 | Recommendation will be implemented along with correction of the name on the name plate. |
| 12.7 | 11.7 | Correction of name will be done with immediate effect. |