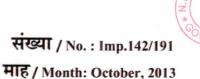
व्यावसायिक परीक्षण रिपोर्ट COMMERCIAL TEST REPORT





Baba Rotavator (BRTG MS 200) Rotavator



भारत सरकार GOVT OF INDIA कुषि मन्त्रालय

MINISTRY OF AGRICULTURE कृषि एवं सहकारिता विभाग

DEPARTMENT OF AGRICULTURE AND COOPERATION

उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान

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Baba Rotavator (BRTG MS 200) [Commercial Test]

6

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 200 MULTI SPEED

Type : L-Type, Gear Drive

Serial number : 1577

Year of manufacture : 2012

Type of blade : Hatchet (L-Type)

Working width of implement (mm) : 1970

Recommended power source : 55 hp and above Tractor

Prime Mover Used during test : New Holland 7500 and John Deere 5310 Tractor

Percentage of wear of rotavator blades on mass basis

| Sl. No. | Initial mass of blade (g) | Mass of blade after 41.4 hours of operation (g) | Difference (g) | Percentage of wear (%) | Percentage of wear on hour basis (%) |
|------------|------------------------------|---|----------------|------------------------|--|
| 1 | 980.0 | 960.5 | 19.5 | 1.99 | 0.05 |
| 2 | 1000.0 | 979.5 | 20.5 | 2.05 | 0.05 |
| 3 | 986.0 | 970.0 | 16.0 | 1.62 | 0.04 |
| 4 | 975.0 | 949.0 | 26.0 | 2.67 | 0.06 |
| 5 | 990.0 | 970.0 | 20.0 | 2.02 | 0.05 |
| 6 | 909.0 | 880.0 | 29.0 | 3.19 | 0.08 |
| 7 | 999.0 | 977.0 | 22.0 | 2.20 | 0.05 |
| 8 | 1000.0 | 968.5 | 31.5 | 3.15 | 0.08 |
| 9 | 1000.0 | 972.5 | 27.5 | 2.75 | 0.07 |

8. EFFECTIVENESS OF SEALINGS

After completion of dry & wet land operation for 26.2 and 15.2 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 41.4hours 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.

- Dimensions of PIC of implement, does not conform to IS:4931-1995 and therefore, it should 11.2 be looked into for corrective action.
- Chemical composition of rotor blades does not conform to relevant Indian Standards. This 11.3 needs to be looked into for corrective action.
- Size of implement and power requirement should also be indicated on the labeling plate. 11.4

Technical literature: 11.5

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

12. APPLICANT'S COMMENTS

No any comment has been received from the applicant at this report.

TESTING AUTHORITY

| SANJAY KUMAR AGRICULTURAL ENGINEER | Skinar |
|---------------------------------------|--------|
| M. K. VISHWAKARMA DIRECTOR | NEZ EM |

Test conducted and report compiled by

- P.C. DIHINGIA SENIOR TECHNICAL ASSISTANT
- ANSHUL PANDEY SENIOR TECHNICAL ASSISTANT (Inst.)