

व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No. : Imp.145/194
माह / Month: December, 2013



Rotavator RT1004, GREENSYSTEM



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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4. SPECIFICATIONS

4.1 General:

Manufacturer	: M/s Dasmesh mechanical Works, Maler Kotla Road, Amargarh, District : Sangrur Punjab -14022
Name of machine	: Rotary Tiller
Make	: GREEN SYSTEM
Model	: RT1004
Type	: 30 Blades
Serial number	: 1PYRT10ATD4000001
Year of manufacture	: Not Specified
Type of blade	: Hatchet (L-shaped)
Working width of implement (mm)	: 1210
Recommended power source	: 35 to 40 HP
Prime mover used during test	: JD 5310

Constructional Details (Refer Fig.1):

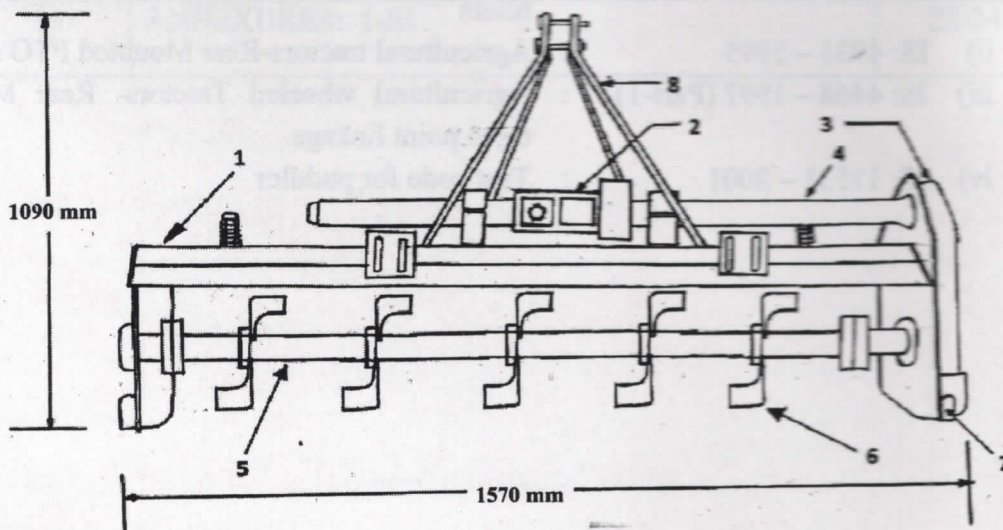


Fig.1: Rotavator RT1004, GREENSYSTEM

9. EASE OF OPERATION & ADJUSTMENTS

No noticeable difficulty was observed during the operation and adjustment of rotavator.

10. DEFECTS, BREAKDOWNS AND REPAIRS

No noticeable difficulty was observed during the operation and adjustment of rotavator.

11. COMMENTS AND RECOMMENDATIONS

- 11.1 The specifications of implement hitch, does not conform with {IS: 4468 (Part-1)-1997}.some conforms to Cat. I and some of them to Cat. II, Hence, it is recommended that In view of the spirit of standardization, necessary improvements may be incorporated.
- 11.2 Dimensions of PIC of implement, does not conform to IS: 4931-1995 and therefore, it should be looked into for corrective action.
- 11.3 Size of implement and power requirement should also be indicated on the labeling plate.
- 11.4 Chemical composition of rotor blades does not conform to relevant Indian Standards. This needs to be looked into for corrective action.
- 11.5 **Technical literature:**
A booklet, named Instruction manual and Parts list was provided for reference during testing.

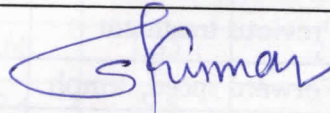
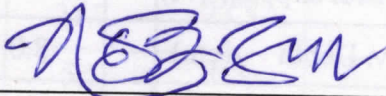
However, it is recommended to bring out the manuals also in Hindi and other vernacular languages as per IS: 8132-1999.



12. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's comments
12.1	11.1	We will provide implement hitch for Rotary Tillers conforms to IS:4468 – 1997 (part-I).
12.2	11.2	We will make necessary corrections to dimensions of shovels to conforms to IS: 4931 – 1995.
12.3	11.3	We will incorporate the size of implement and power on the labeling plate.
12.4	11.4	The blades are manufactured using Boron Steel (27MnCrB5-2) conforming to EN10083 - 3. The performance of Rotary Tiller blades is good and wear analysis shows the wear rate within acceptable limits. Hence we would prefer to maintain chemical composition as actually observed during chemical analysis.
12.5	11.5	We will provide the booklet in Hindi and other local languages.

TESTING AUTHORITY

SANJAY KUMAR AGRICULTURAL ENGINEER	
M. K. VISHWAKARMA DIRECTOR	

Test conducted and report compiled by : **ANSHUL PANDEY**
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