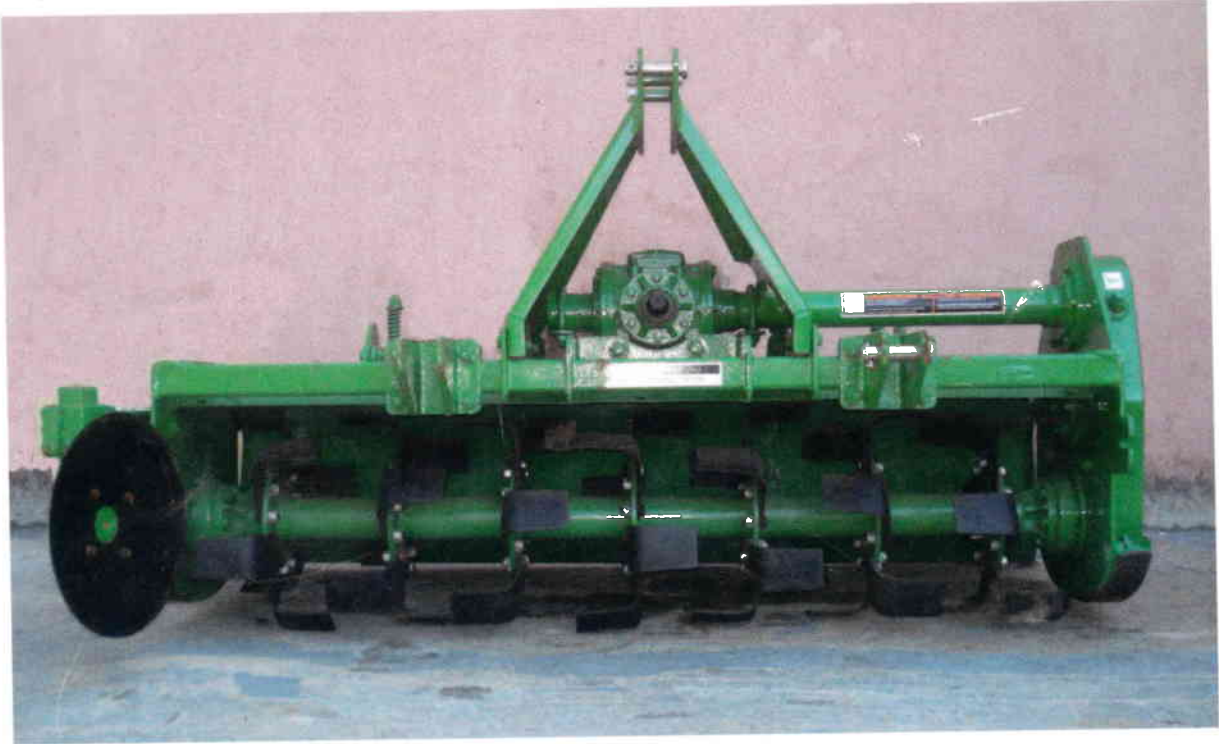


LIBRARY COPY

व्यावसायिक परीक्षण रिपोर्ट  
COMMERCIAL TEST REPORT

संख्या / No. : Imp. 111/158  
माह / Month : May, 2012



**GREENSYSTEM RT1016 ROTAVATOR**

ACC. NO. 1417 D.R.  
DATE 8/6/12



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**

विश्वनाथ चारिआलि, जिला-शोणितपुर (असम)

**BISWANATH CHARIALI :: SONITPUR:: ASSAM, PIN - 784 176**

Website: [www.dacnet.nic.in/NERFMFTTI](http://www.dacnet.nic.in/NERFMFTTI)

Ph. No. 03715-222094

Fax No: 03715-230358

E-Mail: [fmti-ner@nic.in](mailto:fmti-ner@nic.in)

Imp. 111/158	GREENSYSTEM RT1016 Rotavator (Tractor - mounted) [ Commercial Test ]	6
--------------	---	---

#### 4. SPECIFICATIONS

##### 4.1 General:

Manufacturer	: M/s Dasmesh Mechanical Works Amargarh, Dist: Sangrur Punjab – 148 022
Name of machine	: Rotavator
Type	: Tractor-Mounted (Gear drive)
Make	: GREENSYSTEM
Model	: RT1016
Serial number	: 1PYRT101HB6000013
Year of manufacture	: 2011
Type of blade	: Hatchet (L-Shaped)
Working width of implement (mm)	: 1700
Recommended power source	: 45-55 HP
Prime Mover Used during test	: New Holland 5500, New Holland 7500 (4WD)

Imp. 111/158	<b>GREENSYSTEM RT1016 Rotavator (Tractor - mounted) [ Commercial Test ]</b>	23
--------------	---	----

### **8. EFFECTIVENESS OF SEALINGS**

After completion of dry & wet land operation for 26.7 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 41.9 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 blades does not conform to relevant Indian Standards. This should be looked into for appropriate action.

Imp. 111/158	GREENSYSTEM RT1016 Rotavator (Tractor - mounted) [ Commercial Test ]	24
--------------	---	----

11.4 Suitable stickers/labeling plate indicating the grade & change period of oil used in gear boxes should be provided on Rotavator.


11.5 Month/year of manufacture, manufacturer's name and trade mark, (if any), size of implement and power requirement should also be indicated on the labeling plate.

11.6 **Technical literature**


The following literatures were provided for reference during testing:

- Operator and service manual
- Parts catalogue

**TESTING AUTHORITY**

M. K. VISHWAKARMA DIRECTOR	
-------------------------------	--

Test conducted/report compiled by:

P. LODH SENIOR TECHNICAL ASSISTANT	
---------------------------------------	--

p. 111/158	GREENSYSTEM RT1016 Rotavator (Tractor - mounted) [ Commercial Test ]	25
------------	---	----

## 12. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's Comments
1	11.1	We agree and will provide implement hitch conforming to Indian Standards IS: 4468-1997 (Part-1).
2	11.2	We will make necessary corrections to dimensions of PIC to conform to IS: 4931-1995
3	11.3	The blades are manufactured using Boron Steel (27MnCrB5-2) conforming to EN10083 – 3. On the basis of wear analysis test, the wear limit was found within acceptable limits and hence, we would prefer to maintain chemical composition as actually observed during chemical analysis.
4	11.4	Suitable stickers on gearboxes indicating the grade and oil change period will be provided.
5	11.5	These parameters will be indicated as per the recommendation.