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व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No. : Imp. 109/156
माह / Month : May, 2012



GREENSYSTEM RT1216 ROTAVATOR



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/NERFMTTI

Ph. No. 03715-222094

Fax No: 03715-230358

E-Mail: fmti-ner@nic.in

Imp. 109/156	GREENSYSTEM RT1216 Rotavator (Tractor - mounted) [Commercial Test]	6
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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	: RT1216
Serial number	: 1PYRT121CB60001C8
Year of manufacture	: 2011
Type of blade	: Hatchet (L-Shaped)
Working width of implement (mm)	: 1720
Recommended power source	: 45-55 HP
Prime Mover Used during test	: New Holland 5500, New Holland 7500 (4WD)

Imp. 109/156

**GREENSYSTEM RT1216 Rotavator (Tractor - mounted)
[Commercial Test]**

23

8. EFFECTIVENESS OF SEALINGS

After completion of dry & wet land operation for 26.8 and 16.4 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 43.2 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. 109/156	GREENSYSTEM RT1216 Rotavator (Tractor - mounted) [Commercial Test]	24
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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**

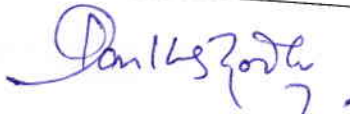
The following literatures were provided for reference during testing:

- Operator and service manual
- Parts catalogue

TESTING AUTHORITY

M. K. VISHWAKARMA DIRECTOR	
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Test conducted/report compiled by:

P. LODH SENIOR TECHNICAL ASSISTANT	
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12. APPLICANT'S COMMENTS

Our Reference	Applicant's Comments
11.1	We agree and will provide implement hitch conforming to Indian Standards IS: 4468-1997 (Part-1).
11.2	We will make necessary corrections to dimensions of PIC to conform to IS: 4931-1995
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.
11.4	Suitable stickers on gearboxes indicating the grade and oil change period will be provided.
11.5	These parameters will be indicated as per the recommendation.

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