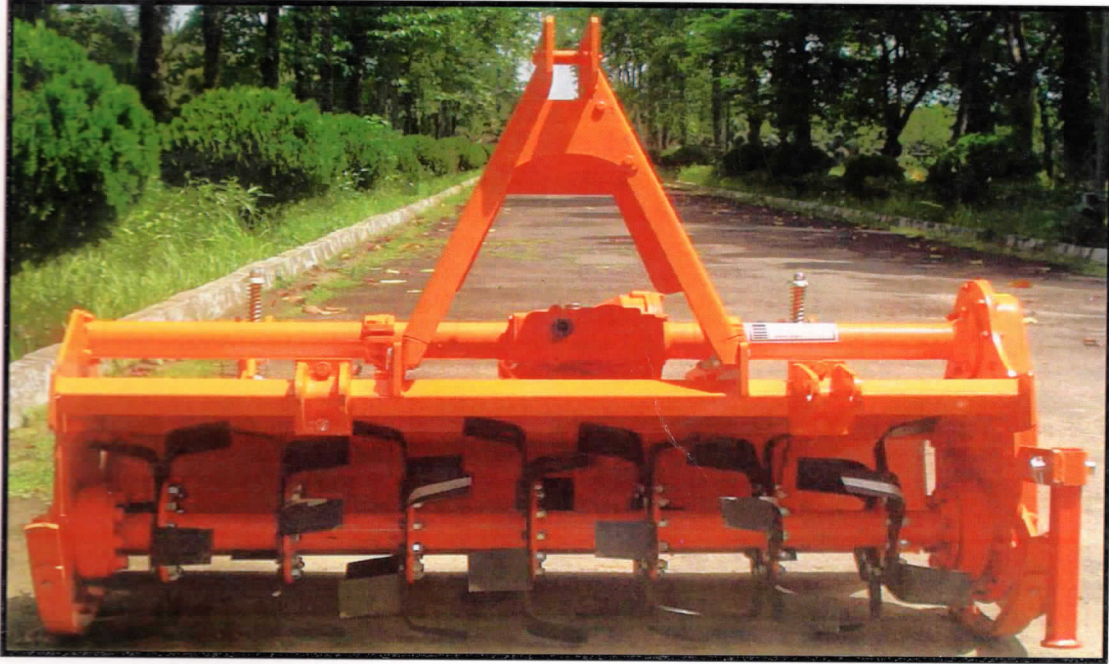




व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No. : Imp.143/192
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SHAKTIMAN (SRT 5 /MS Light Series) 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

Ph. No. 03715-222094

Website: <http://nerfmtti.dacnet.nic.in>

Fax No: 03715-230358

E-Mail: fmti-ner@nic.in

4. SPECIFICATIONS**4.1 General:**

Manufacturer	:	M/s Tirth Agro Technology Pvt. Ltd. N.H.- 27, A.T. Bhunava, Taluka, Gondal Road Vavdi (Near Hotel Krishna Park), Dist. Rajkot, Gujarat - 360004
Name of machine	:	Rotavator
Make	:	SHAKTIMAN
Model	:	SRT 5/MS Light Series
Type	:	Secondary tillage
Serial number	:	13B 5878
Year of manufacture	:	2013
Type of blade	:	Hatchet (L-shaped)
Working width of implement(mm)	:	1400
Recommended power source	:	30 HP Tractor (min.)
Prime mover used during test	:	New Holland 5500 and John Deere 5310 Tractor

4.2 Constructional Details (Refer Fig.1):**KEYWORDS:**

- | | |
|---------------------|---------------------------------|
| 1. Mainframe | 5. Primary reduction gear box |
| 2. Side plate width | 6. Secondary reduction gear box |
| 3. Rotor shaft | 7. Skid |
| 4. Rotor blade | 8. Hitch pyramid |



8. EFFECTIVENESS OF SEALINGS

After completion of dry & wet land operation for 25.1 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 40.3 hours 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.
- 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:
Booklet, Instruction manual and Parts list was not provided for reference during testing. Technical specifications was confined in a single page. Hence, it is recommended that Booklet, Instruction manual and Parts list should be provided with the machine. The tractor(s), with which machine is considered suitable for operating in the field, should be prominently mentioned in the technical literature.

12. APPLICANT'S COMMENTS

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