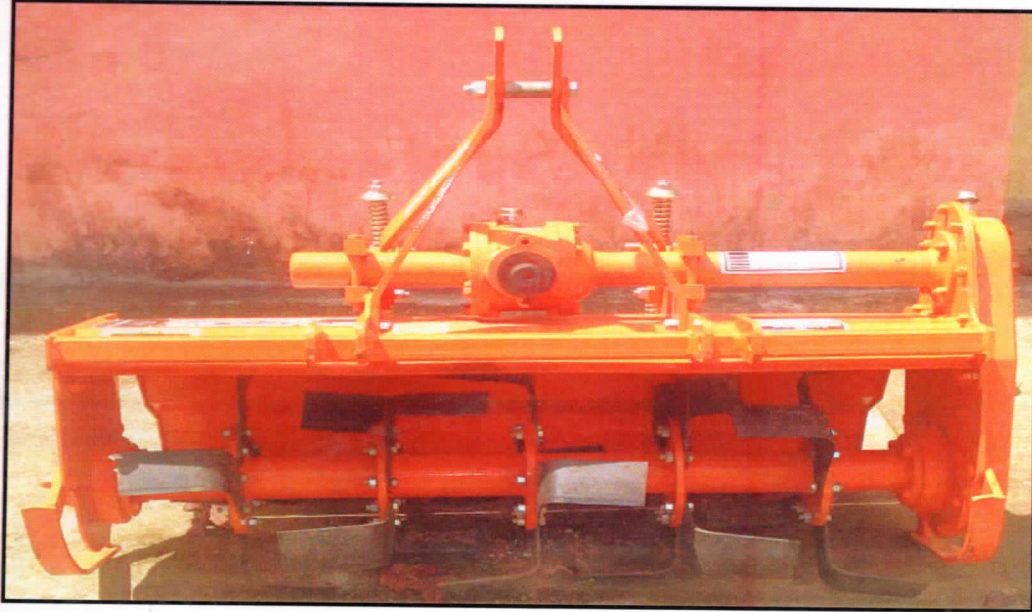




व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No. : Imp.144/193
माह / Month: November, 2013



SHAKTIMAN (SRT 3.25/540) Rotavator

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कृषि एवं सहकारिता विभाग

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

Ph. No. 03715-222094

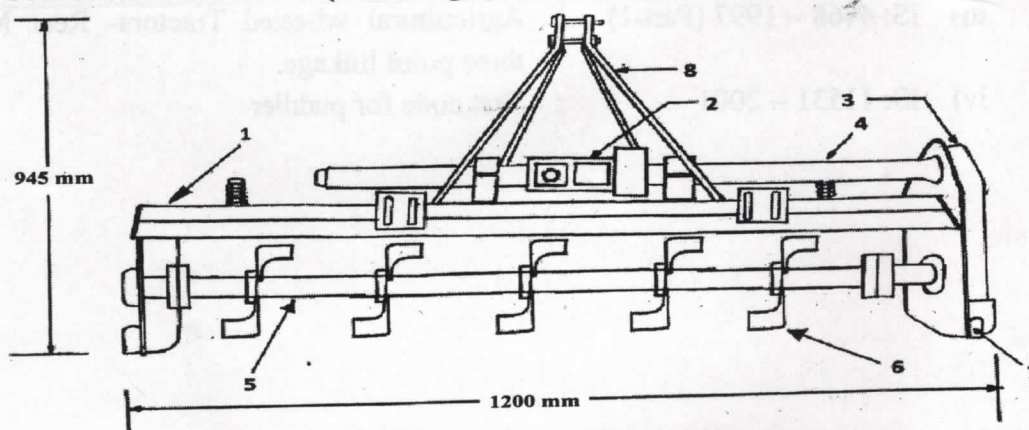
Website: <http://nerfmtti.dacnet.nic.in>

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 3.25/540
Type	: Not Specified
Serial number	: 12K6639
Year of manufacture	: 2012
Type of blade	: Hatchet (L-shaped)
Working width of implement(mm)	: 955
Recommended power source	: 15 HP Tractor
Prime mover used during test	: Massey 1035 & HMT 3522 Tractor (As per recommended HP range tractor was not available in the testing section, Hence higher capacity tractor was used)

Constructional Details (Refer Fig.1):**Fig.1: SHAKTIMAN (SRT 3.25/540) Rotavator**

Imp. 144/193	SHAKTIMAN (SRT 3.25/540) Rotavator [Commercial Test]	20
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the primary transmission. With due permission of competent authority the broken parts were replaced with new one of the same specifications, and further test was conducted.

Sl. No.	Description of Parts	Part Code	Quantity
1.	Bearing 30207	1003	1
2.	Pinion 13 Teeth (mini)	10016	1
3.	Bearing 30209	1045	1

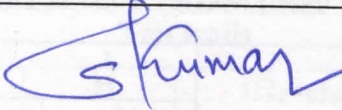

11. COMMENTS AND RECOMMENDATIONS

- 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 In the Dry land field test ,the teeth of pinion gear (primary gear box) got broken after running 21.4 hr only. It seem that material of the pinion is not adequate as per relevant Indian Standard. Hence it is recommended that, In view of the spirit of standardization, necessary improvements may be incorporated at production level.
- 11.6 Technical literature:
Booklet, Instruction manual and Parts catalogue was not provided for reference during testing. 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.

**TESTING AUTHORITY**

SANJAY KUMAR AGRICULTURAL ENGINEER	
M. K. VISHWAKARMA DIRECTOR	

Test conducted and report compiled by : **ANSHUL PANDEY**
SENIOR TECHNICAL ASSISTANT (Inst.)

: **P.C. DIHINGIA**
SENIOR TECHNICAL ASSISTANT