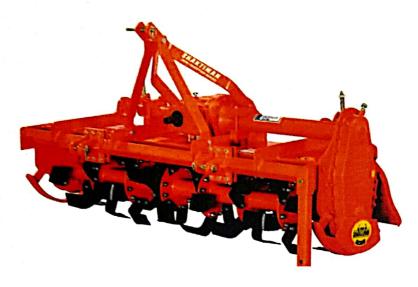
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) COMMERCIAL TEST REPORT (Initial)



संख्या / No.: Imp. 271/350

माह / Month: December, 2019

THIS TEST REPORT IS VALID UPTO 31/12/2026



SHAKTIMAN ROTARY TILLER, MODEL: SRT-6(180)/MS CD SC MULTI SPEED, CHAIN DRIVE, CENTRALLY MOUNTED



भारत सरकार **GOVT OF INDIA**

कृषि एवं किसान कल्याण मन्त्रालय MINISTRY OF AGRICULTURE & FARMERS WELFARE

कृषि, सहकारिता एवं किसान कल्याण विभाग

DEPARTMENT OF AGRICULTURE, COOPERATION & FARMERS WELFARE उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE विश्वनाथ चारिआलि, जिला-विश्वनाथ(असम)

> BISWANATH CHARIALI: BISWANATH: ASSAM, PIN - 784 176 **IAN ISO 9001:2015 CERTIFIED INSTITUTION**

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

Ph. No. 03715-222094

Fax No: 03715-230358

E-Mail: fmti-ner@nic.in



SHAKTIMAN ROTARY TILLER, Model : SRT-6(180)/MS CD SC MULTI SPEED, CHAIN DRIVE, CENTRALLY MOUNTED -COMMERCIAL (Initial)

SECTION SECTION	- CONTRACTOR OF THE PROPERTY OF THE PARTY OF	3	4	5	6	7
V V	Country of origin	u abase process a constant a cons	Should be provided on rotary tiller (Rotavator)	2 P	India	Yes
Wi Wi	Year of manufacture	Evaluative			2018	Yes
Vİİ	Chassis Serial Number				AEBI101101383	Yes
Vili	Recommended PTO speed of Prime mover(rpm)				540	Yes
ìx	Maximum PTO power requirement, kW		, -		41-52/55-70	Yes
8	Category of breakdowns/ defects					
	Category of breakdowns	Category Evaluative/ Non Evaluative	Requirements		As Observed	Whether meets the requiremen ts (Yes/ No)
1	Critical breakdowns	Evaluative	No critical breakdown		None	Yes
ii	Major breakdown	Evaluative	Not more than one and neither of them should be repetitive in nature.		None	Yes
iii	Minor breakdowns	Evaluative	Not more than three and frequency of each should not be more than two.		None	Yes
N	Total breakdowns	Evaluative	In no case, the total no of breakdown should exceed four, i.e. (1 major + 3 minor) or 4 minor breakdowns		None	Yes

11. COMMENTS AND RECOMMENDATIONS

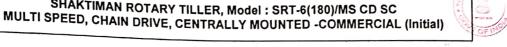
- 11.1 The dimensions of three point linkage (hitch pyramid) of the rotary tiller (Rotavator) does not conform to IS: 4468-1997. This should be looked into for corrective action for standardization.
- 11.2 Dimensions of PIC and PIC yoke bore of implement does not conform to IS: 4931-1995 and it should be looked into for corrective action.
- 11.3 Chemical composition of rotor blades does not conform to IS: 6690-2002. The percentage of carbon and manganese content in composition of rotary tiller blade material was recorded as 0.256 and 1.275, respectively. The carbon content was on lower side and manganese content was on higher side when compared with the relevant Indian Standard. Moreover, the hardness of edge portion of rotor blades also does not conform to relevant Indian Standard. It is therefore, recommended that the material of rotary tiller blade should be improved and shall be provided as per requirement of Indian Standard.
- 11.4 In dry land operation average depth of cut was recorded as 8.67 cm which does not meet the requirement of Indian Standard.

FARM MACHINERY TRAINING & TESTING INSTITUTE (NER), B. CHARIALI, ASSAM [AN ISO 9001:2015 CERTIFIED INSTITUTION] (THIS TEST REPORT IS VALID UP TO 31st December 2026)

Page 18 of 21

Imp.271/350

SHAKTIMAN ROTARY TILLER, Model : SRT-6(180)/MS CD SC



Technical literature:

Operator cum Service Manual & Parts Catalogue was provided along with the machine during the course of testing. It is further recommended to bring out these manuals in Hindi and other vernacular languages as per IS: 8132-1999

TESTING AUTHORITY

AGRICULTURAL ENGINEER

SENIOR AGRICULTURAL ENGINEER

Draft test report compiled by - Shri Khagendra Bora, STA

12. APPLICANT'S COMMENTS

Para No	Our Reference	Applicants Comments
12.1	11.1	Dimension of three-point linkage (Hitch Pyramid) will be modified to confirm IS 4468-1997.
12.2	11.2	The dimension of PIC & PIC Yoke of implements will be modified to confirm IS 4931-1995.
12.3	11.3	Shaktiman Rotary Tiller blade are made of "BORON" steel which is better than Carbon & Silicon Manganese steel Referred in IS 6690-2002. Chemical compositions and Hardness of Rotavator Blade are maintaining as per "BORON" steel.
12.4	11.4	We will take necessary action for increase of depth of operation.
12.5	11.5	We will take necessary action.