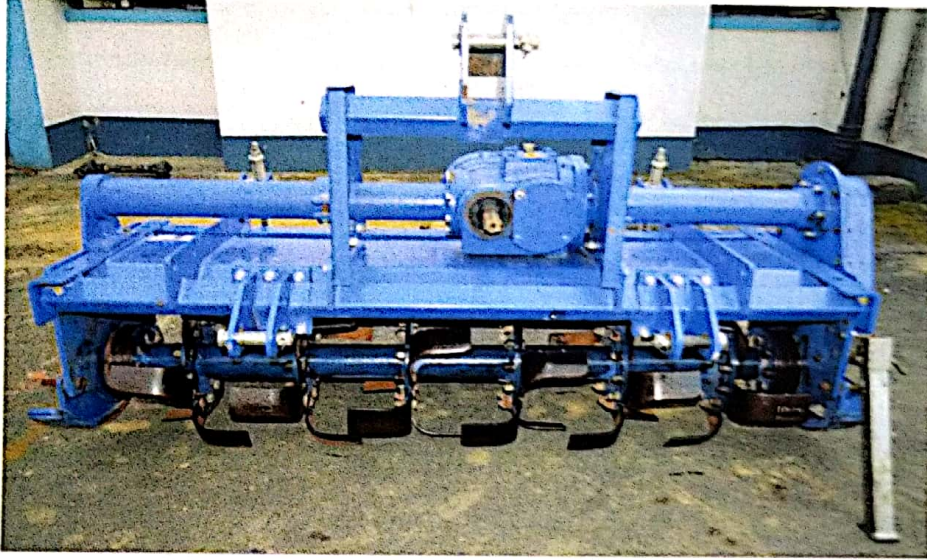


THIS TEST REPORT IS VALID UPTO 28/02/2027



**FARMPower ROTARY TILLER (ROTA VATOR),
MODEL: FPHDMG-160 (ROTA VATOR HEAVY DUTY 5 FEET)
MULTI SPEED, GEAR DRIVE, CENTRALLY MOUNTED**



भारत सरकार
GOVT OF INDIA

कृषि एवं किसान कल्याण मन्त्रालय

MINISTRY OF AGRICULTURE & FARMERS WELFARE

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NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE

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Imp.276/355	FARMPower ROTARY TILLER (ROTAVATOR), Model : FPHDMG-160 ROTAVATOR (HEAVY DUTY-5 FEET) MULTI SPEED, GEAR DRIVE, CENTRALLY MOUNTED -COMMERCIAL (Initial)					
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1	2	3	4	5	6	7
v	Country of origin	Evaluative	Should be provided on rotary tiller (Rotavator)	--	India	Yes
vi	Year of manufacture			--	2019	Yes
vii	Chassis Serial Number			--	00216G07435	Yes
viii	Recommended PTO speed of Prime mover(rpm)			--	540	Yes
ix	Maximum PTO power requirement, kW			--	36-50 HP	Yes
8	Category of breakdowns/ defects					
	Category of breakdowns	Category Evaluative/ Non Evaluative	Requirements	As Observed	Whether meets the requirements (Yes/ No)	
i	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	
iv	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 Dimensions of PIC of implement does not conform to IS: 4931-1995 and it should be looked into for corrective action.
- 11.2 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 0.277 and 1.145, 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.
- 11.3 In dry land operation average depth of cut was recorded as 9.88 cm which does not meet the requirement of Indian Standard.
- 11.4 Provision for checking of oil level in secondary gear box was not provided.
- 11.5 Recommended power source mentioned in the application form and on the machine labeling plate is different and it should be same. It should be looked into for corrective action




11.6 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


 (M.R.PATIL)
 AGRICULTURAL ENGINEER


 (J.P. MANDAL)
 SENIOR AGRICULTURAL ENGINEER


 (K.K. NAGLE)
 DIRECTOR

Draft test report compiled by - Shri M.R. Patil, Agricultural Engineer

12. APPLICANT'S COMMENTS

Para No	Our Reference	Applicants Comments
12.1	11.1	Most of Dimensions of input shaft of Rotavator Conforms to IS 4931-1995. Further we will take care of does not conforms Dimensions.
12.2	11.2	We have used Boron Steel Material Blade (superior than existing standard) as per upcoming new standard as per GOI letter no- 13-9/2019 M&T (I&P) dated 26.04.2019 and so, it mostly conforms the chemical composition and fully conforms the hardness requirements.
12.3	11.3	It depends on soil condition. Some Reading are closer or above 10cm/Kindly consider it as Mostly Conforms.
12.4	11.4	We will look into it.
12.5	11.6	We are developing it and will Supply with future dispatches.