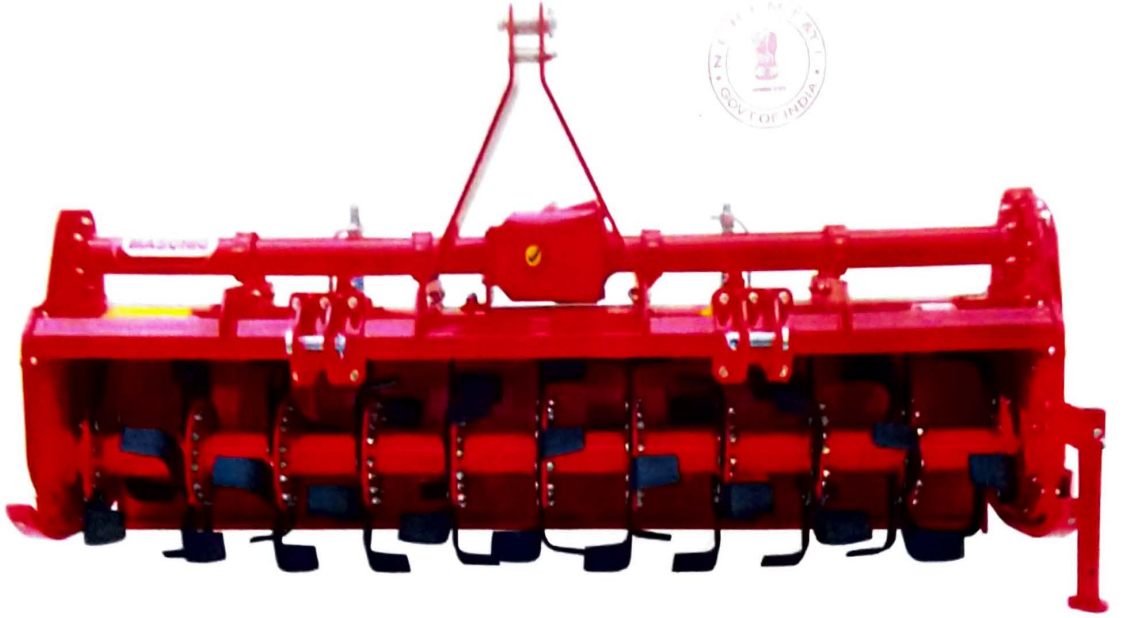


THIS TEST REPORT VALID UPTO 31/03/2026



**MASCHIO GASPARDO ROTARY TILLER, Model: VIRAT PLUS 230
(Gear Drive) (Tractor Operated)**



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

[AN ISO 9001:2015 CERTIFIED INSTITUTION]

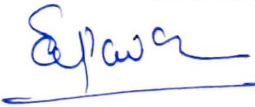
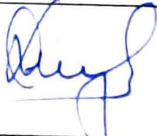
9. DEFECTS, BREAKDOWNS AND REPAIRS

No breakdown was occurred during 41.3 h of wet land and dry land operation

10. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATIONS

- 10.1 The dimension of three point linkage (hitch pyramid) of the rotary tiller does not conform to IS 4468-1997. This should be looked into for corrective action for standardization.
- 10.2 Dimensions of PIC yoke bore of implement do not conform to IS: 4931-1995 and therefore, it should be looked into for corrective action.
- 10.3 Hardness of blades does not confirm to IS 6690:1981. This needs to be looked into for corrective action at production level.
- 10.4 The chemical composition of blades does not confirm to IS 6690:1981. This needs to be looked into for corrective action at production level.
- 10.5 The rate of work was recorded 0.491 to 0.549 ha/h at forward speed of 2.56 to 2.85 kmph in dry land operation.
- 10.6 The Machines working width is not specified. It Must be specified.
- 10.7 The depth of operation in dry land operation was recorded as 10 to 11 cm with soil moisture content of 13.6 to 20.1 % in sandy loam soil and considered on lower side. The depth of puddle was recorded as 18 to 23 cm which is considered as normal for wetland operation.
- 10.8 The hourly rate of wear of blade on mass basis in Wet land & Dry land operations was recorded as 0.03 to 0.05 % and 0.08 to 0.17% respectively.
- 10.9 The hourly rate of wear of blade on dimensional basis in Wet land & Dry land operations was recorded as 0.04 to 0.14 and as 0.02 to 0.31 % respectively.
- 10.10 No ingress of mud and/or water was found in primary and secondary reduction boxes after 41.3 hr of field operations and the sealing provided on different subassemblies were found effective.
- 10.11 **Technical literature:**
An 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

<p>S. G. PAWAR AGRICULTURAL ENGINEER</p>	
<p>K.K. NAGLE DIRECTOR</p>	

Draft test report compiled by -

Sh. Abhishek Tiwari