

THIS TEST REPORT VALID UPTO 31/03/2026



**MASCHIO GASPARDO ROTARY TILLER, Model: PADDY 165  
(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

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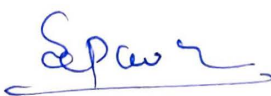
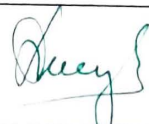
**9. DEFECTS, BREAKDOWNS AND REPAIRS**

No breakdown was occurred during 43.4 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 of implement does not conform to IS: 4931-1995 and therefore, it should be looked into for corrective action.
- 10.3 Chemical composition of rotor blades as per IS: 6690-2002. Moreover, the hardness of edge portion of rotor blades does not conform to relevant Indian Standard. It is therefore, recommended that the material of rotavator blade should be improved and provided as per requirement of Indian Standard.
- 10.4 The rate of work was recorded 0.318 to 0.433 ha/h at forward speed of 2.66 to 3.00 kmph in dry land operation.
- 10.5 The Machines working width is not specified. It Must be specified.
- 10.6 The depth of cut in dry land operation was recorded as 7 to 8 cm with soil moisture content of 13.0 to 20.0 % in sandy loam soil and considered on lower side. The depth of puddle was recorder as 16 to 22 cm which is considered as normal for wetland operation.
- 10.7 The hourly rate of wear of blade on mass basis in Wet land & Dry land operations was recorded as 0.04 to 0.07% and 0.11 to 0.21% respectively.
- 10.8 The hourly rate of wear of blade on dimensional basis in Wet land & Dry land operations was recorded as 0.02 to 0.11 % and as 0.02 to 0.29% respectively.
- 10.9 No ingress of mud and/or water was found in primary and secondary reduction boxes after 43.4 hr of field operations and the sealing provided on different subassemblies were found effective.
- 10.10 **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**

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

Draft test report compiled by -

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