

# THIS TEST REPORT VALID UPTO 31/03/2026



MASCHIO GASPARDO ROTARY TILLER, Model: WIND 105 (Chain Drive) (Tractor Operated)



भारत सरकार GOVT OF INDIA

कृषि एवं किसान कल्याण मन्त्रालय

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### 9. DEFECTS, BREAKDOWNS AND REPAIRS

No breakdown was occurred during 43.7 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** Dimension 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 does not conform to IS: 6690-2002. The percentage of carbon content in composition of rotary tiller blade material was recorded as 0.407. The carbon content was on lower side when compared with the relevant Indian Standard. Moreover, the hardness 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 provided as per requirement of Indian Standard.
- **10.4** The rate of work was recorded 0.195 to 0.276 ha/h at forward speed of 2.52 to 3.01 kmph in dry land operation.
- 10.5 The Machines working width is not specified. It must be specified.
- 10.6 The material of blade is not specified it. It must be specified
- **10.7** The depth of operation in dry land operation was recorded as 6 to 8 cm with soil moisture content of 11.9 to 20.0 % in sandy loam soil and considered on lower side. The depth of puddle was recorder as 18 to 25.6 cm.
- **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 0.17 to 0.34% respectively.
- **10.9** The hourly rate of wear of blade on dimensional basis in Wet land & Dry land operations was recorded as 0.03 to 0.06 % and as 0.01 to 0.42% respectively.
- **10.10** No ingress of mud and/or water was found in primary and secondary reduction boxes after 43.7 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**

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