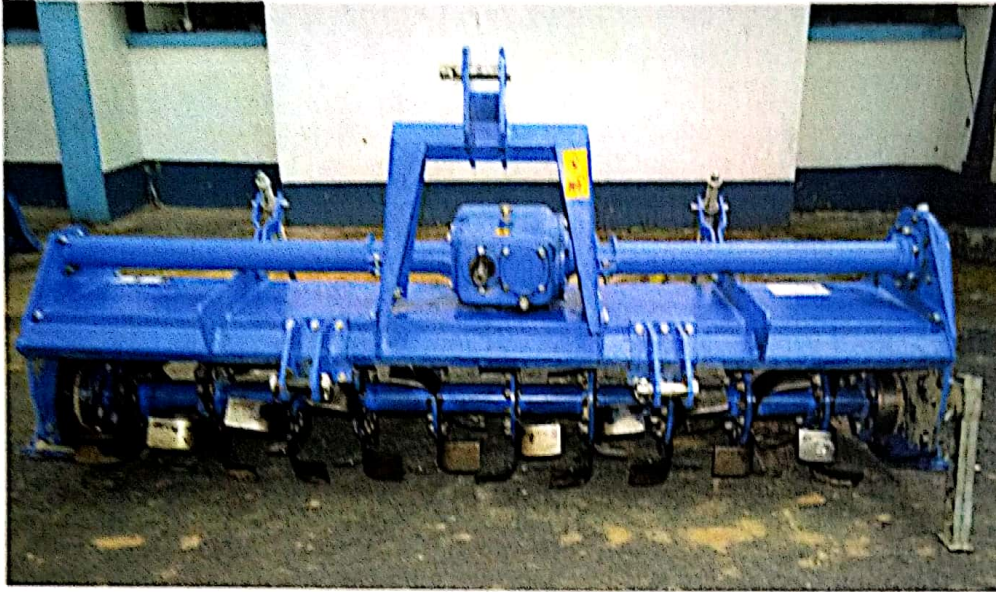


THIS TEST REPORT IS VALID UPTO 28/02/2027



**FARMPower ROTARY TILLER (ROATAVATOR),  
MODEL: FPJPMG-210 (ROTAVATOR JYRO+ 7 FEET)  
MULTI SPEED, GEAR DRIVE, CENTRALLY MOUNTED**



सत्यमेव जयते

भारत सरकार  
GOVT OF INDIA

कृषि एवं किसान कल्याण मन्त्रालय

MINISTRY OF AGRICULTURE & FARMERS WELFARE

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**ESCORTS ROTARY TILLER (ROTA VATOR), Model : FPJPMG 210  
MULTI SPEED, GEAR DRIVE, CENTRALLY MOUNTED -COMMERCIAL (Initial)**

| 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                     |                                     |  | --          | 00216G06399                              | Yes |
| viii     | Recommended PTO speed of Prime mover(rpm) |                                     |  | --          | 540                                      | Yes |
| ix       | Maximum PTO power requirement, kW         |                                     |  | --          | 45-60 HP                                 | Yes |
| <b>8</b> | <b>Category of breakdowns/ defects</b>    |                                     |  |             |  |     |
|          | 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 0.274 and 1.139, 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 Shank & 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** Provision for checking of oil level in secondary gear box of the rotavator was not provided.
- 11.4** 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

**11.5 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          | We will look into it.   |
| 12.4    | 11.5          | We are developing it and will Supply with future dispatches   |