

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT
(INITIAL)

संख्या/No: Machine-338/1149
माह/Month: April, 2020
Validity: 31.03.2025



**MAHINDRA PLANTINGMASTER PADDY 4RO FOUR ROW SELF
PROPELLED RIDE ON RICE TRANSPLANTER**



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि, सहकारिता एवं किसान कल्याण विभाग

Department of Agriculture, Cooperation and Farmers Welfare

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Southern Region Farm Machinery Training and Testing Institute

ट्रैक्टर नगर, गार्लदिन्ने - 515 731, जिला: अनंतपुर (आं. प्र.)

Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)

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Machine- 338/1149	MAHINDRA PLANTINGMASTER PADDY 4RO FOUR ROW SELF PROPELLED RIDE ON RICE TRANSPLANTER	COMMERCIAL (ICT)
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Manufacturer : M/s. Mahindra and Mahindra Ltd.,
Tractor Plant, Mahindra Nagar,
Zaheerabad, Dist. – Sangareddy,
Telangana – 502 220, **India.**

Applicant : M/s. Mahindra Farm Machinery,
Mahindra and Mahindra Ltd.,
Research & Development Centre, A-29,
Phase-7, Industrial Area, SAS Nagar,
Mohali – 160 055, Punjab, **India.**

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- Av. number of plants per hill was recorded as 4 to 5.
- Av. spacing between hills was recorded as 15.7 to 16.0 cm.
- Av. total number of hills in 5 m row length was recorded as 24.
- Av. number of hills per sq. m. was recorded as 24.
- Av. percentage of missed hills was recorded as nil to 0.83.
- Av. percentage of floating seedlings was recorded as nil to 0.83.
- Av. percentage of buried seedlings were recorded as Nil to 0.83.
- Av. percentage of damaged seedling were recorded as nil to 0.83.
- The total percentage of transplanting faults was recorded as 0.33 to 1.66.
- The consumption of nursery trays was recorded as 185 to 207 numbers per hectare.
- The hourly fuel consumption was recorded as 2.10 to 2.24 l/h and fuel required for planting of one hectare area was recorded as 6.51 to 7.66.

17.2.1 The quality of work was observed as smooth during entire transplanting operation. The overall performance of the machine was found satisfactory.

17.3 Components/assembly inspection

17.3.1 The transplanter and engine were dismantled after 40.91 hours of operation and wear of critical components were observed within the limits.

17.3.2 The main gear box, planting box, planting arm drive mechanism and bearings were dismantled after completion of field operation and found in satisfactory working condition and further also found that there is no ingress of water and/or mud against the sealings provided.

17.4 Safety provisions

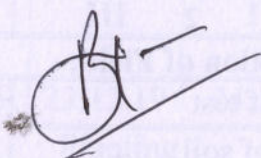
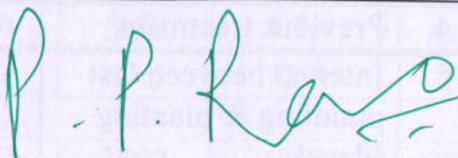
The machine is provided with various safety provisions while working in the field or moving on the road as mentioned in the **clause 5.12** of this test report.

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17.5 Technical literature:

Operator's manual, service manual and parts catalogue of Rice Transplanter in separate booklets were supplied with the Rice Transplanter for reference during the test. It is however, recommended that the same may be revised in Hindi and other regional languages as per IS 8132 : 1999 (Reaffirmed 2004) for the sake of user & technical personnel.

TESTING AUTHORITY:

B.N. DIXIT AGRICULTURAL ENGINEER	
Dr. P.P. RAO DIRECTOR	

18. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
18.1	17.1.4	We will work with engine supplier for corrective action.
18.2	17.1.5	We will work with engine supplier for corrective action.
18.3	17.2	We will improve muffler to reduce noise.
18.4	17.3	We will analyze & reduce vibrations.