

4 - Row Manual Rice Transplanter

Utility

Manual rice transplanter can be used for timely transplanting of paddy and reduced cost of cultivation with better crop yield. The four row manual transplanter comprises of floats, a main frame assembly made of MS pipe that supported the seeding tray made of G.I. sheet, pushing lever tray indexing mechanism, picker bar assembly and handle.



Specifications & Performance results		
Power requirement	:	One person
Weight, kg	:	20
Adaptable seedlings	:	Mat type
Age of Seedlings	:	21 days
Row to row distance, mm	:	240
Width of machine, mm	:	1200
No of rows	:	4
Hill to hill distance, mm	:	10-12
No.of hills/sqm	:	38
No.of plants/hill	:	2-5
Planting depth, mm	:	30-45
Missing hill, %	:	8
Field capacity, ha/h	:	0.03
Labour requirement, mandays/ha	:	8

Benefits over conventional/traditional practices

- Suitable for transplanting of 20-25 days old mat type rice seedlings.
- Saves 30-40% labour requirement and 40% cost in transplanting operation.
- Manual transplanter is more economical and labour saving compared to manual transplanting.

Design: ICAR-NRRI, Cuttack

Commercialization Status: Commercialized

Contact:

- Director, ICAR-National Rice Research Institute, Cuttack, Odisha-753006, Phone: +91-671-2367757/67, Email: director.nrri@icar.gov.in, crriict@nic.in