Performance evaluation of semi automatic two row rice transplanter

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ABSTRACT

Rice (Oryza sativa), one of the three most important food crop in world, forms the staple diet of 2.7 billion people. In Konkan region, rice is an important crop. Transplanting is most labour consuming operation during paddy cultivation. The cost of puling and transplanting shares 50% of total production cost. Lots of efforts are made by Dr.B.S.K.K.V., Dapoli to popularize the commercially available eight row self propelled transplanter (Yanji Shakti). The machine works well in literatic soil of the Konkan region. The limitations of the machine are smaller plot size and undulating topography of land. Manually operated four row, six row transplanters could not get much popularity in the region as the operator has to pull the transplanter which involves lots of drudgery. In order to develop two row self propelled transplanter the performance of 2 row pulled type was studied. The transplanter was tested at the Agronomy field of Dr. B.S.K.K.V., Dapoli. Various parameters like plant to plant spacing, planting depth, field capacity, field efficiency, total time of operation, speed of operation were recorded during field evaluation. The field efficiency and field capacity of the transplanter was observed to be 84.5% and 0.051 ha/hr respectively.

Key words: Paddy transplanter, Self propelled, Transplanting, Pulled type machine