1 Introduction

2 Materials and Methods

3 Results and Discussion

4 Summary

5 Final Remark(s)

An innovative tractor operated seeder for mat type paddy nursery was designed, developed and evaluated. The machine cuts and convey the soil from both sides, sieve the soil, compact the soil before spreading the polythene sheet, laying polythene sheet, spread the soil of uniform thickness on polythene sheet to make a mat and then sow the seed uniformly on the soil mat in one go. Saving in cost and labor for sowing mat type nursery using mat nursery seeder was observed 87.79% and 96.36%, respectively as compared to conventional method. This machine will boost the mechanization in paddy transplanting which enhances the farm mechanization in Indian paddy cultivation. There is a higher demand for the developed technology in the farming community as the trials are being carried out in farmers field at various locations in the state. The patent has been filed [Application No. 202011018197] for the same machine i.e. ‘Tractor Operated Seeder for Mat Type Paddy Nursery’ at Patent Office, New Delhi, India.