

Development of a gravity fed automatic vegetable transplanter

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■ **ABSTRACT** : A gravity fed automatic vegetable transplanter was developed and evaluated in the laboratory. The main objective of this work was to drop the seedling by gravity without causing damage to the seedling. To make the feeding pro - tray simple, an open bottom type pro tray seedling was used. To move the tray continuously, a 50 rpm gear motor with finger type moving mechanism was developed and tested. The conventionally practiced growing medium with 20, 30 and 40 days old seedling was used for conducting experiment. Under laboratory condition it was found that it was feasible to drop 28 plants min^{-1} .

■ **KEY WORDS** : Pro-tray, Gear motor, Finger wheel, Automatic vegetable transplanter

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