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RESEARCH PAPER

## Effect of vegetable and fruit waste on seed germination and growth of *Solanum lycopersicum*

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The study was aimed to determine the effect of vegetable and fruit waste extract on seed germination and growth of *Solanum lycopersicum*. The domestic vegetable and fruit waste was used as both extract and decoction at different dilutions to analyze its effect on seed germination, leaf emergence, growth and plant biomass. Effect of different concentrations of waste extract and decoction was compared to that of distilled water (control). The results revealed that all the concentrations of extract/decoction promoted seed germination, also contributed to seedling height, plant growth and biomass accumulation. However, an increase in dilution ratio from 1:5 to 1:8 had a significant effect on germination and growth of tomato plants. This suggests that domestic waste, which is one of the major causes of environmental pollution, can be used as an alternative to synthetic plant growth nutrients.

**Key words :** Domestic waste, Seed germination, Tomato

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### INTRODUCTION

Waste generation and its subsequent accumulation by increase in human population is one of the major problems confronting future generations. Solid waste results from various sources including food, animal, hazardous, industrial, medical, mineral wastes, etc. Urban solid waste includes household garbage, construction and demolition debris, sanitation residues, trade, industrial refuse and biomedical solid waste (CPCB, 2000). India produces 300 to 400g of solid waste per person per day in town. Clearance of such large mass of solid waste generated daily is a major concern of cities, which could lead to a serious situation due to the toxicity and unavailability of dumping grounds (Vilas, 2015). At the same time the domestic waste can contain many reusable substances of high value, depending on there being an

adequate technology to convert this residual matter into commercial products either as raw material for secondary processes as operating supplies or as ingredients of new products. Numerous valuable substances in food production are suitable for separation and recycling at the end of their life cycle, even though present separation and recycling processes are not absolutely cost efficient (Lauenberg *et al.*, 2003). The main goal of a clean production process is to upgrade vegetable waste for the production of bio fertilizer and to convert the vegetable waste to exclusive commercial products. According to the survey conducted by United Nations Development Programme, of 151 mayors of cities around the world, the second most serious problem that city dwellers face (after unemployment) is insufficient solid waste disposal (UNDP, 1998). It is a well known fact that improper disposal of such huge wastes poses a major threat to the

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