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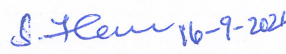
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3.	Department	Botany
4.	Name of the Research Guide	Dr. A. Vijayalakshmi
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Introduction

Agriculture is the science and art of rejuvenating the soil by cultivating crops and livestock. It consists of preparation of plant and animal products which provides most of the world's food and fabrics. Agriculture also defined as the science or practice of farming which include growing crop by cultivation or rearing of animal. People cannot survive without productive agriculture. From ancient time, man used various kinds of vegetable manures, dung, urine and decaying animal matter, chicken manure and green manure crops for enriching the soil. Organic agriculture is a holistic production management system in agriculture which enhances biodiversity, biological cycles and soil biological activity thus promotes the agro ecosystem.

India holds the documentation for second-huge farming land in the world, with around 60 % countryside Indian family circles make their livelihood from agriculture. India also produces about 600 million tonnes of crop residue each year, with the majority of being permitted to degrade naturally or burned on the spot as reported by the Intensive Agriculture survey, (2022) of Indian Government. Agro-industrial wastes pose great economic and environmental hazard and their safe disposal is major distress to industries. Untreated organic wastes have high chemical and biological oxygen demand and uncontrolled disposal causes environmental pollution, landfills, eutrophication, economic losses, health risks and climate change by producing green house gases (Msoyoka, 2020).

Organic agriculture is a sustainable alternative to traditional agriculture using environmental friendly strategies in which application of organic fertilizers and pesticides from plant, animal waste and microbial consortia are used (Duran-Lara *et al.*, 2020). Increasing population causes serious challenges to Indian agriculture production of high yielding crops responsive to chemical fertilizers and cropping mechanism pose the problem of weeds, insects and pests causing losses in output (Singh, 2021). However, organic farming has gained increasing prominence.

Organic farming is helpful for the production of safe food at low cost. There are different components in organic agriculture viz, green manures, biocomposting, vermicomposting, manure preparations with various wastes of agriculture and industries.

Bioconversion of paddy and coffee husks as organic manure and its effect on plant growth and soil fertility

by Central Library Avinashilingam

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