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Environment and Sustainability

Volume III

Editors

Dr. Mamta Shukla

Dr. Vinayaka K.S

Dr. Gyanendra Kumar

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Editors

Dr. Mamta Shukla

Department of Biotechnology,

Faculty of Engineering and Technology,

KMCLU, Lucknow

Dr. Vinayaka K.S

Department of Botany,

Sri Venkataramana Swamy College,

Bantwal, Dakshina Kannada, Karnataka

Dr. Gyanendra Kumar

Department of Zoology,

National P.G. College,

Lucknow

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CONTENT

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A Review on organic manure using earthworms as waste management

Sindhu, M. and Annapoorani C.A*

Department of Zoology, School of Biosciences,

*Avinashilingam Institute for Home Science and Higher Education for Women,

Coimbatore- 641043, Tamil Nadu, India

Corresponding Author: Annapoorani C.A, email: annaporaniadu@gmail.com

Abstract

Organic waste is generated by agricultural activities and it leads to challenges for its safe disposal, with the waste either burned or land filled. Major environmental challenges associated with waste generation and inadequate disposal causing negative impact on environment. The type of methods that should be applied for proper management of waste depends on the states like liquid or solid or sludge composition of waste. Earthworms have an ability to consume all organic material digests and produce good organic fertiliser called worm casts. Within a short period of time earth worm's intake its food and give us valuable manure and also give products like vermiwash and vermicompost. Vermicompost contains rich nutrients for the growth of plants.

Keywords: Plant waste, Cow dung, Earthworms, Organic manure, Vermicompost

1. Introduction

Biodegradable wastes are the very big query of this century, and their disposal is a magic called vermicompost without troubling the environment (Annapoorani and Sindhu, 2019). The utilization of different types of solid wastes through composting is important for environmental sustainability and restoring soil quality (Goswami et al., 2017). Compared to incineration and landfilling, the appropriate sustainable method to utilize industrial sludge is stabilizing with