

Vermicomposting Process of Organic Waste and Paper Mill Sludge

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Abstract:- Industrial development and increase in population has generally been equated with ecological degradation that leads to environmental pollution. Every year millions of tones of pollutants are introduced into the environment by various industries. Thousands of small scale and even some bigger industrial units dispose waste, more often toxic and hazardous, in open spaces and nearby water sources. Over the last decade many cases of serious and permanent damage to environment by these industries is reported.

An experimental study was conducted to obtain the vermicompost using partially decomposed fruit waste with paper industry sludge's. The earthworm species used for this process was *Eudrilus eugeniae*. The microorganism culture *Pleurotus* was added to enhance the degradation process. Moisture content was maintained by providing proper percentage of water. The partially decomposed organic waste and industrial sludge's were converted into castings by earthworms. The castings was obtained on the top surface of the bin were in the range from 20 to 30 days depending on the type of waste and sludge used. The castings obtained were sieved, dried, tested and used as manure. Thus the vermicomposting process helps in the disposal of organic waste and industrial waste in a safe, economic and useful manner.

I. INTRODUCTION

Industries produce a large quantity of wastewater and sludge's during their each processing stage. When this industrial waste comes into contact with the environment they produce serious impacts on it. It is difficult to generalize the industrial wastes since its characteristics differ from industry and also from its different processing plants.

Before final disposal one can process and treat the waste so as to reduce the "wasteful wasting of waste". Some of the techniques available to achieve this objective are volume reduction, recovery of resources, energy recovery. That's why the world is entering new branch of bio information technology. This study has been done for reducing the pollution problems due to solid waste and industrial sludge's by converting it into compost by using earthworms very successfully, economically and usefully.

A. Solid Waste

The solid waste is complex in character and its volume is greatly increased due to increase of living standards and population density. Hence the importance of efficient solid waste management is increasingly recognized. Solid waste

is the term now used internationally to describe non-liquid waste material arising from domestic, commercial, hospital, industrial, agricultural and mining activities. Solid waste comprises countless different material dust, food waste, paper, metals, plastics, glass, discarded clothing, garden waste etc. Solid waste includes both combustible and non-combustible waste. Disposal of solid waste should be properly managed. They cause insanitation conditions, and hazard to human being. Day to day management of municipal solid waste is a complex and a costly task.

a) ORGANIC WASTE -Fruit Waste

Usage of fruits produces two types of waste - a solid waste of peel / skin, seeds, stones etc - a liquid waste of juice and wash waters. In some fruits the discarded portion can be very high(e.g. mango 30-50%,banana 20%,pineapple 40-50% and orange 30-50%).Therefore, there is often a serious waste disposal problem, which can lead to problems with flies and rats around the processing room, if not correctly dealt with. If there are no plans to use the waste it should be buried or fed to animals well away from the processing site. Only waste produced during the same day should therefore be used - it is not advisable to store - up wastes to use for eg at the end of a week's production.

b) INDUSTRIAL SLUDGE -PAPER MILL SLUDGE

Biodegradation of paper waste has suggested the utilization of paper waste for composition. Bioconversion of paper mill sludge in to compost by using worms studied.Sludge from paper and pulp mill is mainly cellulose fiber generated at the end of pulping process. They are composed essentially of fibrous fines and some inorganic such as kaolin clay, calcium carbonate, titanium dioxide and other chemicals used in manufacturing process.

B. VERMI COMPOSTING

Vermi is the Latin word for worm. Vermicomposting is simply composting with worms. Vermicomposting refers to the method of converting organic waste in to worm castings(E. Albanell, J. Plabats, T. Cabrera, 1988) It is one of the most cost efficient and environmentally friendly methods of waste disposal. In an ideal condition earthworms can consume practically all kinds of organic matter and they can eat their own body weight per day for example one kilogram of worms can consume one kilogram of residues every day. And yet their casts contain eight times as many microorganisms as their feed. And the casts don't contain any disease pathogens-pathogenic bacteria are

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Research Paper On Vermiculture And Vermicomposting Undertaken**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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