

# Use of Biodegradable Waste in Drought Area of Agriculture Purpose - A Review

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**Abstract**— The objective of this research was to recycle household biodegradable waste using composting as a technique. Mixtures of organic materials which are components of biodegradable wastes were recycled by decomposing them under a controlled environmental condition. The initial moisture content of each of the materials make up the compost mixture was computed and classified as wet and dry materials, and the average moisture content for both wet and dry materials was computed. The dry materials were weighed as they were collected and were found to weigh 18kg with an average moisture content of 34.9% and a chosen moisture goal of 50%. Other results obtained showed that the weight and average moisture content of wet materials were 64.7kg and 54.2% respectively. The compost mixture was scaled down to half its quantity for easy turning. With an optimal environmental condition of moisture content (50%), adequate proportion of both the dry and wet material to meet the required Carbon/Nitrogen (C/N) ratio, and an appropriate volume of air in the pore spaces of the compost pile and microbial decomposition was initiated. At the end of the decomposition, a stabilized organic matter which can be used as fertilizer supplement by horticulturists, landscapers, orchardists, Farmers etc, was obtained.

**Keywords:** Biodegradable Waste, Home Composting (HC)

## I. INTRODUCTION

Biodegradable waste is a type of waste, typically originating from plant or animal sources, which may be degraded by other living organisms. And in biodegradable waste include any organic matter in waste which can be converted into the CO<sub>2</sub>, methane or other organic and natural gases. In this project biodegradable waste garbage will be used in drought area for agriculture purpose by the composite in technical in the drought or less rainfall area. By composite in the recycle waste search a household with garbage which will be reduce the amount of garbage generally in your country India by the amount of electrons of garbage for day. And in the degradable waste composite in technical will be greatly as him to be e inverter mental benefit because organic to decay in the land field has an negative points belong to the environment light and economically. In this project we have to knowledge to process of composite in technical by the use of biodegradable waste with which will waste will be used in drought area for agriculture purpose for the good better growth and yield of various crop and how to much quantity of Crop required in this area. Composting is the microbial degradation of organic solid material that involves aerobic respiration and generally includes a thermophilic stage (Finstein and Morris, 1975). Home composting (HC) is traditionally considered as a horticultural recreational activity, however, more recently it has been identified as a potential major opportunity for

managing part of the domestic, biodegradable waste stream, to minimize the amount of waste collected for landfill disposal and therefore contribute to achieving compliance with reductions in biodegradable waste disposal to landfill required by the landfill directive (CEC, 1999). The biodegradable waste materials are aerobically digested at a stabilized organic fraction that can be recycled for agricultural uses (Feb, 2009).

## II. LITERATURE REVIEW

- [1]. Aeslina Abdul Kabir:- based on extensive literature review, compositing research of different types of organic waste shown different process on the effectiveness of the compositing process.
- [2]. Abira Mukherjee:- the present Studies suggest a compositive study of different approaches take sofar for Kitchen waste management.
- [3]. Easter vanlalmawi:- due to the increase in the generation of multipal solid waste proper management has to be adopted in the order minimize the generation
- [4]. JC Hargreaves:- compositing of municipal solid waste has potential as benefit recycle tool. itself used in agricultural however depends on the production of good quality compass specifically compost that Is mature and sufficient Low in material and salt connect.

## III. METHODOLOGY

- 1) Step 1  
In this project we have to work and biodegradable waste material which can be used in drought areas of agriculture purpose.
- 2) Step 2  
First of all in this process we have to digout the one layer of Land of (1m) Depth & put this specific wet waste material on the land in the form of layers.
- 3) Step 3  
After this process we have to harvest the crop in this in composite by using the method of computing technique.
- 4) Step 4  
And now we have to observe how to organic work on the land in this process we will be wet waste able to increase the growth and yield of crops.
- 5) Step 5  
Further, if it increase the growth and yield of crops when have too much quantity of water will be required to crops to maintain his personal growth and held in the area of drought and less rainfall area.
- 6) Step 6  
And if this project been successful, then the all biodegradable waste will be composed or decompose is proper way in a soil in the forms of manure. The no's of lakh tonnes wet waste

will be becomes less & in little % of pollution will be decreases.

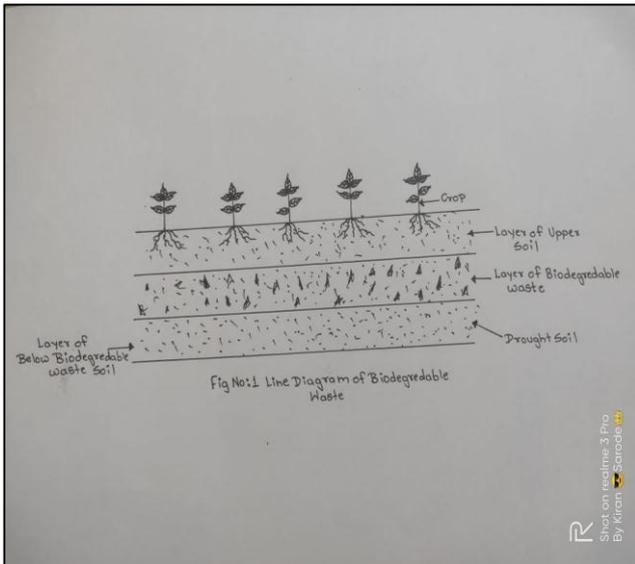


Fig. 1: Experimental Setup

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