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The Best Practice Approach to Rural Household Solid Waste Management through Benchmarking

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Abstract

The waste generated in the human society today is necessary to be utilised appropriately for its ecological sustainability, environmental safety, economic stability and well being. The management of waste at the household level is necessitated by the ever growing economic needs.

The study documented in this paper provides an insight into the Rural Household Solid Waste Management, as reviewed in three districts of Andhra Pradesh. The study encompasses the designing of a process for the segregation, collection, transportation, processing, recycling and disposal of the rural household solid waste (organic and inorganic waste), by making use of low cost technologies such as recycling for inorganic waste and vermicomposting for organic waste, in a sustainable manner that is easily reproducible and is environment friendly.

The study aimed to provide an approach for Rural Household Solid Waste Management that is safe for the Waste handlers and the Villagers, leads to a healthy village environment, leads to the spread of awareness, is cost effective and practical, is easily reproducible and is sustainable in the long run.

The results and observations emanating from the review of the Rural Household Solid Waste Management as conducted in this study and the parameters developed for the purpose of benchmarking have been used for the fructification into the best practice model, delving into a step-wise approach to efficient and sustainable rural household solid waste management considering the wide diversity of the future application.

Keywords

Solid Waste Management, Vermicompost, Benchmarking, Waste Generation Rate, Best Practice, Route Mapping