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Waste Management Technology and its Commercial Aspect

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Abstract

The objective of writing this paper is to study the current practices related to the various waste management initiatives taken in India. The other purpose is to provide some opportune suggestions and recommendations to improve waste management practices overcoming some challenges. The paper offers knowledge about the commercial aspects of waste management in India. This work is original and could be further extended.

Keywords: India, Waste management, Commercial aspect, Recycle

1. Introduction: Market Overview

The demand for waste management in India is rising safely, limiting the enormous population density and increasing industrial activity, producing huge waste of both hazardous and non-hazardous types. India is new to circular economy however it is growing rapidly. The current situation of only 30% of the 75% recycled waste is being recycled, thus offering huge potential for waste management industry in India [1]. The scarcity of adequate collection, disposal and recycling policies and the lack of reliable facilities are just a few of the many factors that contribute to the country's poor waste management. Recently, numerous new companies are thinking of inventive plans to oversee waste and in this way convert them into important assets. Be that as it may, India needs a great deal of information to handle the difficulties tormenting this industry. Section two describes the waste management system in India and how startups are making money from trash. Section three mentions the key trends practices followed in market. Section four is of, waste commercial aspects of business making examples. Section five comprises of pathway for overcoming challenges and future improvements considering management of waste. Last section concludes measures for three R's i.e., refuse, reduce and reuse.

2. Waste Management System in India

Waste management market comprises of four segments - Municipal Waste, Industrial Waste, Bio- Medical Waste and Electronic Waste Market. All these four types of waste, like the nature of the waste, are governed by different laws and policies. Practice of waste management in India depends on actual waste generation, primary storage, primary collection, secondary collection and transport, recycling, treatment and disposal activities. Collection of waste is typically done on the basis of a contract. It's done by rag pickers in most cities, small time contractors and municipalities.

Waste Collection in India

Primarily by the city municipality

- No gradation of waste product eg bio-degradable, glasses, poly bags, paper shreds etc.
- Dumps these wastes to the city outskirts Local raddiwala kabadwala (Rag pickers)

2.1 Wealth out of Many Waste Management Startups in India

Swatch Bharat Initiative—The lead initiative for handling waste collection by the Indian government and its effective implementation provides a tremendous opportunity to numerous upcoming new businesses to prioritize innovative waste management solutions in India. Such new companies are increasingly engaging in digital and biomedical squanders to discover innovative practical methods for handling the waste produced and for safer disposal. For waste management and treatment methods, every player has an interesting style. For example, Bishari, Pepsi, Cipla, IDFC bank, Sun Pharma, and Google, the majority of e-waste startups have links with eminent biggies [1]. For example, HCL has created the online registration process for e-waste recycling requests, where customers (both individual and corporate) can register their requests for their e-waste disposal. HCL applies the recycling facility to its customers irrespective of when and where the item was purchased [2]. Nokia India has launched a 'Take Back' campaign to promote the reuse of electronic waste, where consumers can drop their old smart phone in the company's stores and win prizes [2]. Nokia allows consumers of mobile phones to dispose of their used handsets and accessories such as chargers and handsets in any of the recycling bins set up by Nokia priority dealers and Nokia care centers.