## Project Design Phase-I Proposed Solution Template

Date	19/10/2022
Team ID	IBM-Project-11437-1659328607
Project Name	Smart Waste Management System For
	Metropolitan Cities
Maximum Marks	2 Marks

## **Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	This project deals with the problem of waste management in smart cities, where the garbage collection system is not optimized. This project enables the organizations to meet their needs of smart garbage management systems. This system allows the authorised person to know the fill level of each garbage bin in a locality or city at all times, to give a cost-effective and time-saving route to the truck drivers.
2.	Idea / Solution description	The key research objectives are as follows:  • The proposed system would be able to automate the solid waste monitoring process and management of the overall collection process using IOT (Internet of Things).  • The Proposed system consists of main subsystems namely Smart Trash System(STS) and Smart Monitoring and Controlling Hut(SMCH).  • In the proposed system, whenever the waste bin gets filled this is acknowledged by placing the circuit at the waste bin, which transmits it to the receiver at the desired place in the area or spot.  • In the proposed system, the received signal
		indicates the waste bin status at the monitoring and controlling system.
3.	Novelty / Uniqueness	We are going to establish SWM in our college but the real hard thing is that janitor (cleaner) don't know to operate these thing practically so here our team planned to build a wrist band to them, that indicate via light blinking when the dustbin fill and this is Uniqueness we made here beside from project constrain.
4.	Social Impact / Customer Satisfaction	From the public perception as worst impacts of present solid waste disposal practices are seen direct social impacts such as neighbourhood of landfills to communities, breeding of pests and loss in property values

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5.	Business Model (Revenue Model)	Waste Management organises its operations
		into two reportable business segments:
		Solid Waste, comprising the Company's waste
		collection, transfer, recycling and resource
		recovery, and disposal services, which are
		operated and managed locally by the
		Company's various subsidiaries, which focus on
		distinct geographic areas; and
		Corporate and Other, comprising the
		Company's other activities, including its
		development and operation of landfill gas-to-
		energy facilities in the INDIA, and its recycling
		brokerage services, as well as various corporate
		functions.
6.	Scalability of the Solution	In this regard, smart city design has been
		increasingly studied and discussed around the
		world to solve this problem. Following this
		approach, this paper presented an efficient IoT-
		based and real-time waste management model
		for improving the living environment in cities,
		focused on a citizen perspective. The proposed
		system uses sensor and communication
		technologies where waste data is collected
		from the smart bin, in real-time, and then
		transmitted to an online platform where
		citizens can access and check the availability of
		the compartments scattered around a city.