Project Design Phase-I Proposed Solution Template

Team ID	PNT2022TMID34548
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
2.	Idea / Solution description	time-saving route to the truck drivers. 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

	<u> </u>	dusthin fill and this is the inverse and 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
5.	Business Model (Revenue Model)	Waste Management organises its operations
٥.	Busiliess Model (Reveilde Model)	into two reportable business segments:
		into two reportable business segments.
		Calid Master as a marketing the Common de waste
		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-toenergy 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
		IoTbased 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.