Project Design Phase-I Proposed Solution Template

Date	17 NOVEMBER 2022
Team ID	PNT2022TMID07317
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)	An inefficient waste management may create serious environmental impacts like infectious diseases, land and water pollution, climate changes. Timely collection of trashes is an essential part of the problem Collecting wastes during morning and evening leads to more traffic in metropolitan cities
2.	Idea / Solution description	 The proposed system constructed to the top of the bins to detect bin level status and alert the admin through a cloud service-based application The application provides a monitoring platform for the waste management institution to handle the alert records by creating orders for the garbage collectors/drivers which can be accessed via a mobile application system
3.	Novelty / Uniqueness	 All time monitoring system Alerting the authorised person once the bin about to fill Cloud based mobile application IOT based smart mechanised bin
4.	Social Impact / Customer Satisfaction	 Reduce traffic and time efficient Environmental and user friendly Reduce man power deployment in one time
5.	Business Model (Revenue Model)	 This initiative intends to assist municipal corporation By cutting back on unneeded transportation costs to pointless locations, this lowers a significant amount of fuel costs for city businesses Leads to a safe and healthy environment
6.	Scalability of the Solution	 The constant monitoring of trash cans by human labour saves a lot of time

It may be modernised to utilise automated rubbish pickup by trucks
 There is no need to establish something
new
 Existing trash cans are somewhat changed