Project Design Phase-I Proposed Solution Template

Date	19th September 2022
Team ID	PNT2022TMID07013
Project Name	Smart Waste Management System for Metropolitan Cities
Maximum Marks	2 Marks

Problem Statement	The collection and disposal of garbage waste is in an unordered, inefficient way which leads to overfilling of bins, rotting garbage smell and more fuel consumption of collecting trucks.
Purpose Statements (Goal)	The purpose of this project is to focus on problems of detection of emptying of a recycling container using sensor measurements
Solution Description	 Using sensors, weighing machines; real time monitoring the level of waste in bins. The information gets shared with appropriate authorities through web application.
Uniqueness/ Novelty	 Citizens & industries behaviours during specific festivals, events at different seasons are monitored and are predicted for garbage overflowing. Also, to find the shortest path to reach the destiny for trucks on the basis of fuel and time consumption.
Social Impact / Customer Satisfaction	Informative, effective management of waste in big cities reduces waste impacts over environment pollution

Business Model (Revenue Model)	 Eco-friendly. Optimised route navigation system. Reduce fuel consumption. Alerts authority by real-time monitoring
Scalability of the Solution	 Timely Alerts: The garbage truck receives timely alerts when bins are ready to be emptied. Reduce operation cost.