

**Project Design phase
Proposed Solution Template**

Date	11 OCTOBER 2022
Team ID	PNT2022MID44143
Project Name	Project – 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)	The set and disposal of garbage waste is in unordered, ineffective way which leads to overfilling of bins, rotting garbage smell and more fuel utilization of collecting trucks.
2.	Idea / Solution description	Using sensors, weighing machine; real time monitoring the level of waste in bins. The information get shared with appropriate authorities and fellow citizens through web application.
3.	Novelty / Uniqueness	Citizens & industries behaviour during precise festival, events at different seasons are monitored and are predicted for garbage overflowing. Also to find the shortest path to reach the fate for trucks in basis of fuel and time consumption.
4.	Social Impact / Customer Satisfaction	Informative, effective management of waste in big cities reduces waste impacts over environment pollution.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none">• Eco-friendly.• Optimized route navigation system.• Reduce fuel consumption.• Alerts authority by real-time monitoring.• Promote 3R's(Reduce, Reuse ,Recycle).
6.	Scalability of the Solution	<ul style="list-style-type: none">• The need-driven waste collection eliminates unnecessary traffic blockage.• Generate important statistical data for monitoring for waste collection.• Recycling is promoted between residents, results in clean & sustainable environment.