

Project Design Phase-I
Proposed Solution Template

Date	11 November 2022
Team ID	PNT2022TMID25739
Project Name	Project – SMART WASTE MANAGEMENT SYSTEM FOR VIDEO SURVEILLANCE
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 collection and disposal of garbage waste is in unordered, inefficient way which leads to overfilling of bins, rotting garbage smell and more fuel consumption of collecting trucks
2.	Idea / Solution description	<ul style="list-style-type: none"> •Using sensors, weighing machine; real time monitoring the level of waste in bins. •The information gets shared with appropriate authorities and fellow citizens through web application. • In the proposed system, the received signal indicates the waste bin status at monitoring control system.
3.	Novelty / Uniqueness	Citizens & industries behaviors during specific festival, events at different seasons are monitored and are predicted for garbage overflowing. Also, to find the shortest path to reach the destiny for trucks in basis of fuel and time consumption .
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> •Informative, effective management of waste in big cities reduces waste impacts over environment pollution •From the public perception as worst impacts of present solid waste disposal practices are seen direct social impacts such as neighborhood of landfills to communities, breeding of pests and in property values.
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.