

Project Design Phase-I
Proposed Solution Template

Date	22 October 2022
Team ID	PNT2022TMID04566
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)	This problem deals with the waste management in smart cities, where the garbage system is not optimized. Due to improper waste disposal, people face severe problems.
2.	Idea / Solution description	To solve this problem, we have introduced smart garbage bins. Through this we can detect the level of bins, weight of garbage in bins, track the location of every bin through GPS, etc
3.	Novelty / Uniqueness	<p>This smart waste management system improves the hygiene and use of garbage trucks.</p> <p>Create a waste management-focused community outreach plan.</p>
4.	Social Impact / Customer Satisfaction	<p>Reduces the route optimization, fuel consumption while emptying dumpsters throughout the city.</p> <p>It is more convenient and efficient.</p>
5.	Business Model (Revenue Model)	<p>It generates revenue through the provision of various waste management and disposal services.</p> <p>Recycling solutions to residential, commercial, industrial and municipal clients.</p>
6.	Scalability of the Solution	<p>Installing more bins for collecting recyclables like paper, glass, plastics.</p> <p>The IOT enabled smart waste management system needs to be efficient and able to communicate and share information across extended coverage.</p>