

**Project Design Phase-I**  
**Proposed Solution Template**

Date	15 September 2022
Team ID	PNT2022TMID21861
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)	System requires more number of bins for separate waste collection as per population in the city. This results into high initial cost due to expensive smart dustbins compare to other methods.
2.	Idea / Solution description	The aim of waste management is to reduce the dangerous effects of such waste on the environment and human health.
3.	Novelty / Uniqueness	It is about using technology and data to create a more efficient waste industry. Based on IOT technology ,smart waste management aims to optimize resource allocations ,reduce running costs, and increase the sustainability of waste services.
4.	Social Impact / Customer Satisfaction	Public awareness and proper knowledge of waste management and end use of different types of waste, health effects , environment problems and economic issues that are related to waste management is very important for successful execution of any waste management related practices.
5.	Business Model (Revenue Model)	Waste management generates revenue through the provision of various waste management and disposal services and recycling solutions to residential, commercial ,industrial and municipal clients. The company derives its revenue in the form of various fees associated with its services offerings.
6.	Scalability of the Solution	Scalability is an aspects or rather a functional quality of a system or solution .A system that can accommodate expansion without hampering the existing workflow and ensure an increase in the output or efficiency of the process ,is a scalable system.