Project Design Phase-I
Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID42807
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)	• Inadequate communal containers for sorting waste, lack of routine collection of waste and inadequate resources for the sanitation unit to efficiency collect the waste generated • Irregular collection service and collection coverage • High cost • Garbage overflow • Lack of sufficient knowledge on benefits of segregation
2.	Idea / Solution description	• Elimination of missed pickups • If garbage level reach maximum, notification sends to higher authority • Citizens easily access information about the public waste using mobile application • Large size dustbins are used to reduce collection trips and cost • Using container tracking your waste changes to smart pastures • Mobile application is used to detect the bin level and capture image when we need • In our system if dustbin is relocated to another location, it will automatically registered with the server with new location • Garbage bins are separated by biodegradable and non-bio degradable
3.	Novelty / Uniqueness	• End to end waste container solution is essential for picking up trash and its efficient disposal • Easy way to track and detect the solution

		• If bin is not clean the notification sends to higher authority • Waste is sorted, weighted and recorded automatically
4.	Social Impact / Customer Satisfaction	• Reduction of co2 emission • Improved cleanliness • More eco-friendly reducing overflow in bins and ensuring community safety • Keeps the environment clean and fresh • Reduce environmental pollution
5.	Business Model (Revenue Model)	• Reduce cost • It is easier to municipal corporation for their betterment of management of regarding collection of wastes • Saving worker's time • It improves employee efficiency • Low workers need
6.	Scalability of the Solution	Rating of 10 • Users -9 • Product -9