

Project Design Phase-I
Proposed Solution Template

Date	4 November 2022
Team ID	PNT2022TMID05191
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)	<ul style="list-style-type: none">• Inadequate communal containers for sorting waste, lack of routine collection of waste and inadequate resources for the sanitation unit to efficiently 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	<ul style="list-style-type: none">• 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 .• Aims to maintain a sustainable ,pollution free and healthy environment.

3.	Novelty / Uniqueness	<ul style="list-style-type: none"> • Enhances scalability with computing power and storage available on demand, with no management burden. • End to end waste container solution is essential for picking up trash and its efficient disposal . • Easy way to track and detect the solution. • This idea makes this garbage collection in a computerized way. • Speed, App Development and Social Impact.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> • Reduction of co2. • Improve cleanliness. • More eco-friendly. • Reduce pollution. • Disposal in safe and ethical manner.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> • Reduce cost. • Betterment of municipal governments. • Sponsors. • Investors. • Advertisement. • Earn good revenue.
6.	Scalability of the Solution	<p>This can be extended to each and every part of the country – rural or urban.</p> <ul style="list-style-type: none"> • More the users, vast waste management system