

Project Design Phase-I Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID11512
Project Name	SMART WASTE MANAGEMENT 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"> The manual monitoring of wastes in waste bins is a cumbersome process and utilises more human effort, time and cost. Irregular disposal of wastes causing trouble to people. Foul smell around the place with uncollected wastes or garbage.
2.	Idea / Solution description	<ul style="list-style-type: none"> Creating an app, there by the corporation of a particular locality inside a metropolitan city can check the garbage bins whether they are filled or not. This process is achieved by using a ultrasonic sensor to know the levels of garbage bin through cloud connection.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> To reduce the human-effort and difficulty in monitoring the garbage bins. Unlike the conventional methods for collecting garbage bins, this method tells us to use the transport only in required places.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> People can experience a clean environment. Reduces the human effort involving in the garbage disposal process. This idea will be very much beneficial for a city corporation for monitoring the cleanliness of various parts of the city.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> This project aims to support the municipal corporations. Provide a clean environment. This reduces a huge fuel cost to the city corporations by reducing the unwanted transport expenses to unnecessary places.
6.	Scalability of the Solution	<ul style="list-style-type: none"> There is no need of new establishment of things. Already present garbage bins are modified slightly. It can be updated to automated garbage collection through vehicles.

		<ul style="list-style-type: none">• A huge time is saved from frequent monitoring of garbage bins through human labours.
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