Project Design Phase-I Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID33070
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)	 ✓ 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	 ✓ This process is achieved by using a ultrasonic sensor to know the levels of garbage bin through cloud connection. ✓ 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.
3.	Novelty / Uniqueness	 ✓ Unlike the conventional methods for collecting garbage bins, this method tells us to use the transport only in required places ✓ To reduce the human-effort and difficulty in monitoring the garbage bins.
4.	Social Impact / Customer Satisfaction	 ✓ 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)	 ✓ This reduces a huge fuel cost to the city corporations by reducing the unwanted transport expenses to unnecessary places.

		✓ This project aims to support the municipal corporations.✓ Provide a clean environment.
6.	Scalability of the Solution	 ✓ A huge time is saved from frequent monitoring of garbage bins through human labours. ✓ It can be updated to automated garbage collection through vehicles. ✓ There is no need of new establishment of things. ✓ Already present garbage bins are modified slightly.