

Project Design Phase-I
Proposed Solution Template

Date	25 September 2022
Team ID	PNT2022TMID11760
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)	Waste management is a major issue in metropolitan cities. Our problem statement is to create a setup using IoT that will monitor the bins in cities and send information to the authorized members to empty the bins once they are filled. By this way it will be easy for the MC to keep the city clean and pollution free.
2.	Idea / Solution description	<ol style="list-style-type: none">1) Technology used here is IoT2) By using ultrasonic sensors and gas sensors , we can monitor the level of trash filled in the bins and the toxicity of gases.3) The information is then send to the IoT platform where we can see the status of the bin and remove it .
3.	Novelty / Uniqueness	There are three steps present in it: <ol style="list-style-type: none">1) Designing circuit2) Coding3) implementation
4.	Social Impact / Customer Satisfaction	<ol style="list-style-type: none">1) It should be of low cost2) It should used to keep the city clean
5.	Business Model (Revenue Model)	Creating using IoT
6.	Scalability of the Solution	<ol style="list-style-type: none">1) Easy to use2) Cost efficient