**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 25 September 2022 |
| Team ID | PNT2022TMID30256 |
| 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.

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| **S.No.** | **Parameter** | **Description** |
|  | 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. |
|  | Idea / Solution description | 1. Technology used here is IoT 2. 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 theIoT platform where we can see the status of the bin and remove it . |
|  | Novelty / Uniqueness | There are three steps present in it:   1. Designing circuit 2. Coding 3. implementation |
|  | Social Impact / Customer Satisfaction | 1. It should be of low cost 2. It should used to keep the city clean |
|  | Business Model (Revenue Model) | Creating using IoT |
|  | Scalability of the Solution | 1. Easy to use 2. Cost efficient |