**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 20 October 2022 |
| Team ID | PNT2022TMID05693 |
| 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) | Dumping garbage onto the roadsides, overflowing dumpsters in public areas, irregular pickups are the common problems faced by the public. |
|  | Idea / Solution description | Ultrasonic sensors or smart bin sensors are used to measure fill-levels of the bins and send alert to the website, to test, history data can be stored in the IBM cloud. |
|  | Novelty / Uniqueness | In this website, public can also send alerts to the waste collection system. |
|  | Social Impact / Customer Satisfaction | Cleanliness in the environment leads to restoration of the street aesthetic, no infections due to unhygienic activities. |
|  | Business Model (Revenue Model) | No Revenue generation as the project aims to achieve societal upgradation. |
|  | Scalability of the Solution | Low cost, platform-independent, requires simple modules, and easy functionality. |