**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID07372 |
| Project Name | Project – Smart Waste Management 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) | * The problem of this project is waste management system in smart cities * An inefficient waste management may cause the serious impacts on environment like infectious diseases,   air and land pollution etc ..   * Due to improper waste disposal we may face several problems like unpleasant odour and health problems * Collection of trashes on time is the essential part of the problem. |
|  | Idea / Solution description | * The proposed system constructed in the top of the garbage bin to detect the bin level and alert the authorized person by using the cloud service application . * To solve this problem waste management here we use Technologies like ultrasonic sensor ,node MCU etc.. |
|  | Novelty / Uniqueness | * To reduce the difficulty in collecting the garbage. * Day and Night monitoring System. * IOT based smart bin for waste management. |
|  | Social Impact / Customer Satisfaction | * Reduce the manpower. * Clean and Healthy environment. * Reduce traffic. |
|  | Business Model (Revenue Model) | * It generates revenue through the provision of various waste management and disposal service. * This is intends to assist the municipal corporation. |
|  | Scalability of the Solution | * It can be updated to automated garbage collection through vehicles. * The constant monitoring of garbage bins may save a lot of time. * No need of new establishment. |