**Project Design Phase-I**

**Proposed Solution Template**

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| **Date** | 23 September 2022 |
| **Team ID** | PNT2022TMID12045 |
| **Project Name** | Smart Waste Management System For Metropolitan Cities |
| **Maximum Marks** |  |

**Proposed solution:**

This project presents the development of a smart garbage monitoring system in order to measure waste level in the garbage bin in real-time and to alert the authority, in particular cases.

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| **S. No** | **Parameter** | **Description** |
| 1 | Problem statement (problem to be solved) | Collection of garbage management in cities, towns and villages is a major concern and emerging problem in smart city paradigm, also lack of proper resource distribution in the process of garbage collection is great risk to sanitation, cleanliness and health. |
| 2 | Idea / Solution description | Collecting data from smart bins and alerting to the wastage collector.  Data analysis for a smarter collection process.  The data gathered in this process is analyzed and it is useful insights empowering the users in their decision making process. |
| 3 | Novelty / Uniqueness | Enhances scalability with computing power and storage available on demand, with no management burden. |
| 4 | Social Impact / Customer Satisfaction | It will help us to clean the cities and gives us healthy environment. When waste is disposed or recycled in a safe, ethical, and responsible manner, it helps reduce the negative impacts of the environment. |
| 5 | Business Model (financial Benefit) | Offering software as a service model to the government. One can earn good revenue from waste management business besides creating positive impacts in the society. |
| 6 | Scalability of Solution | In this model costumer gets benefits on using smart bins by providing prediction on day to day analysis in waste management system |