**Project Design Phase-I**

**Proposed Solution**

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| **Date** | 19 September 2022 |
| **Team ID** | PNT2022TMID10141 |
| **Project Name** | Smart Waste Management System for Metropolitan Cities |
| **Maximum Marks** | 2 Marks |

**Proposed Solution:**

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| **S.No.** | **Parameter** | **Description** |
| 1. | Proposed Statement (Problem to be solved) | To detect waste in the bins using Smart bins and Sensors. |
| 2. | Idea / Solution Description | Utilizing sensors, sophisticated monitoring systems, and mobile applications, smart waste management aims to address the aforementioned solid waste management issues. |
| 3. | Novelty / Uniqueness | Reduce, Recycle and Reuse |
| 4. | Social Impact / Customer Satisfaction | A reduction in the waste collections needed by up to 80%, resulting in less manpower, emissions, fuel use and traffic congestion. |
| 5. | Business Model (Revenue Model) | By offering different waste management and disposal services as well as recycling options to clients in the municipal, commercial, industrial, and residential sectors, Waste Management makes money. |
| 6. | Scalability of the solution | The Smart Garbage Monitoring System is very useful in real time,it keeps the environment hygiene and easy work so it will reach worldwide. |