**Project Design Phase-I Proposed Solution Template**

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| **Date** | **18/10/2022** |
| **Team ID** | **PNT2022TMID12337** |
| **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** |
| 1. | Problem Statement (Problem to besolved) | * Rubbish and waste can cause air and water pollution. * Rotting garbage is also known to produce harmful gases mix with the air and cause breathing problem in people. * Due to improper waste disposal, we may face several problems like unpleasant odour and health   problems. |
| 2. | Idea / Solution description | * To solve this problem of waste management for disposal using a smart refuse bin built with technologies like Sensors, Arduous. * Garbage truck Weighing Mechanisms. * AI Recycling Robots. |
| 3. | Novelty / Uniqueness | * Identify potential waste streams. * Create a waste management-focused   community outreach plane. |
| 4. | Social Impact / CustomerSatisfaction | * Neighbourhood of landfills to communities, breeding of pests and loss in property values. * The IOT solution uses the data and   selects optimum routes for waste collection trucks. |
| 5. | Business Model (Revenue Model) | * It generates revenue through the provision of various waste management and disposal services. * Recycling solutions to   residential,commercial,industrial,and municipal clients |
| 6. | Scalability of the Solution | * Installing more bins fir collecting recyclables like paper, glass,plastic. * Recycling not only save energy but also prevent the material from going   to landfills & Incineration |