**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 23 September 2022 |
| Team ID | B2-2M4E |
| Project Name | Project - Smart Waste Management System for Metropolitan cites. |
| 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) | * Rubbish and waste cause air and water pollution. * Rotting garbage is also known to produce harmful gases mix with air and cause breathing problem in people. * Due to improper waste disposal, we may face several problems like unpleasant odour and health problems. |
|  | Idea / Solution description | * To solve this problem of waste management for disposal using a smart refuse bin built with technologies like sensors,arduino yun. * Garbage truck weighing mechanisms. * AI recycling robots. |
|  | Novelty / Uniqueness | * Identify political waste streams. * Create a waste management focused community outreach plane. |
|  | Social Impact / Customer Satisfaction | * 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. |
|  | Business Model (Revenue Model) | * It generates revenue through the provision of various waste management and disposal services. * Recycling solutions to residential,commercial and municipal diets. |
|  | Scalability of the Solution | * Installing more bins fir collecting recyclables like paper, glass,plastics. * Recycling not only save energy but also prevent the material from going to landfills and incineration. |