**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 25 October 2022 |
| Team ID | PNT2022TMID17711 |
| Project Name | Project – Smart Waste Management System For Metropolitan City |
| 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 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 odor and health problems. |
|  | Idea / Solution description | ❖ Using sensors when a trash bin is about to fill,the authorities are immediately notified and collection trucks can be scheduled for a picup even before the pre-scheduled time.  ❖ Collect and analyse area-specific data on waste volumes for better planning. |
|  | Novelty / Uniqueness | ❖ Identify potential waste streams.  ❖ Create a waste management-focused community outreach plane. |
|  | Social Impact / Customer Satisfaction | ❖ Monitoring the amount of waste and periodic collection reduce the environmental damage and improve street sanitation.  ❖ Raise public awarness of utilizing renewable resources. |
|  | 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 |
|  | Scalability of the Solution | ❖ Selects the optimum routes for waste collection trucks.  ❖ Installing more bins fir collecting recyclables like paper, glass, plastic. |