**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID33002 |
| Project Name | Project – Smart waste management |
| 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) | The main problem in waste management is that waste are not removed frequently because the waste collectors are not aware of the overflow of trash containers |
|  | Idea / Solution description | As people deposit the waste in the trash container, more the amount / level of wastes in the trash container , the sensors senses it and notifies it through the web application to the waste collectors |
|  | Novelty / Uniqueness | Homes and businesses across the country rely on routine waste collection services to dispose their trash. Weekly services have been around for decades, but they aren’t always the most efficient option.  We can install waste level sensors in bins. These devices collect and store data on fill levels, allowing collection services to predict how often bins need to be emptied. This also helps prevent public containers from overflowing and contaminating the surrounding area. |
|  | Social Impact / Customer Satisfaction | From a citizen’s perspective, the social benefits of “smart bins” – besides their economic and environmental advantages – are interesting. They help to:  1)raise public awareness of keeping environment clean,  2)improve street sanitation,  3)collect and analyze area-specific data on waste volumes for better planning. |
|  | Business Model (Revenue Model) | Waste Management generates revenue through the provision of various disposal services and recycling solutions to residential, commercial, industrial, and municipal clients. The Company derives its revenue in the form of various fees associated with its service offerings. |
|  | Scalability of the Solution | Scalability is high as this model is easy to process and is cost effective. Wastes collection is managed very efficiently as we are using modern technologies for maintaining the system |