**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 20 OCT 2022 |
| Team ID | PNT2022TMID42666 |
| 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** |
|  | Problem Statement (Problem to be solved) | A big challenge in the urban cities is solid waste management. The garbage collecting authority in traditional waste management system doesn’t know about the level of garbage in dustbin, if the dust bins gets full by garbage then it gets overflowed as well as spelled out from the dustbin leading to unhygienic condition in cities |
|  | Idea / Solution description | \* The proposed system would be able to automate the solid waste monitoring process and management process with the help of IOT  \* Raspberrypi zero and ultrasonic sensors are placed on top of the dustbin  \* Whenever the dustbin is full, it will send the alert to the corparation and we can continuosly monitor on the website  \* LED is placed outside the bin to indicate whether the dustbin is full \* If the bin is full, LED starts blinking so that the people can understand |
|  | Novelty / Uniqueness | \* Continuously monitor on web  \* Send a notification alert  \* Blinking led |
|  | Social Impact / Customer Satisfaction | \* Reduction in manpower  \* Pollution - free |
|  | Business Model (Revenue Model) | \* This system helps in keeping the  surrounding clean and pollution free  \* Public gets benefited  \* User friendly model  \* Affordable cost |
|  | Scalability of the Solution | \* It can be used in all wifi enabled  places such theatres, institutions,  mall etc |