

Project Design Phase-I
Proposed Solution Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID27336 |
| Project Name | Project – 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.

| S.No. | Parameter | Description |
|-------|--|---|
| 1. | Problem Statement (Problem to be solved) | Waste management is one of the serious challenges of the cities, the system now used in cities, we continue to use an old and outmoded paradigm that no longer serves the entail of municipalities Cities |
| 2. | Idea / Solution description | The proposed system would be able to automate the solid waste monitoring process and management of the overall collection process using IOT (Internet of Things). • The Proposed system consists of main subsystems namely Smart Trash System(STS) and Smart Monitoring and Controlling Hut(SMCH).. |
| 3. | Novelty / Uniqueness | The uniqueness of our proposed project is it is implemented with GPS & GPRS based Tracking & monitoring movement of each vehicles . |
| 4. | Social Impact / Customer Satisfaction | The solution reduces waste collection frequency dramatically, enabling you to save on fuel, labor, and fleet maintenance costs. It has been analysed that the solution could reduce the operational cost of municipalities up to 80%. |
| 5. | Business Model (Revenue Model) | In highly populated areas , a rapid waste generation usually leads to overflowing waste bins and ugly streets. Intellia Smart Waste Management System empowers waste collection staff to know fill-levels in real-time and get notified of waste overflows. |
| 6. | Scalability of the Solution | The Benefits of our Smart Waste Management System Improves Community Safety Smart bins have advanced features, which provide additional security and protection for the overall community. |