# Project Design Phase-I
# Proposed Solution Template

| Date | 24 September 2022 |
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| Team ID | PNT2022TMIID11512 |
| Project Name | SMART WASTE MANAGEMENT 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) | • The manual monitoring of wastes in waste bins is a cumbersome process and utilises more human effort, time and cost.<br>• Irregular disposal of wastes causing trouble to people.<br>• Foul smell around the place with uncollected wastes or garbage. |
| 2. | Idea / Solution description | • Creating an app, there by the corporation of a particular locality inside a metropolitan city can check the garbage bins whether they are filled or not.<br>• This process is achieved by using a ultrasonic sensor to know the levels of garbage bin through cloud connection. |
| 3. | Novelty / Uniqueness | • To reduce the human-effort and difficulty in monitoring the garbage bins.<br>• Unlike the conventional methods for collecting garbage bins, this method tells us to use the transport only in required places. |
| 4. | Social Impact / Customer Satisfaction | • People can experience a clean environment.<br>• Reduces the human effort involving in the garbage disposal process.<br>• This idea will be very much beneficial for a city corporation for monitoring the cleanliness of various parts of the city. |
| 5. | Business Model (Revenue Model) | • This project aims to support the municipal corporations.<br>• Provide a clean environment.<br>• This reduces a huge fuel cost to the city corporations by reducing the unwanted transport expenses to unnecessary places. |
| 6. | Scalability of the Solution | • There is no need of new establishment of things.<br>• Already present garbage bins are modified slightly.<br>• It can be updated to automated garbage collection through vehicles. |