

**Project Design Phase-I**  
**Proposed Solution Template**

|               |   |
|---------------|---|
| Date          | 19 October 2022                                 |
| Team ID       | PNT2022TMID12348                                |
| 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) | To collect the solid waste and segregate the various types of solid waste and to dispose properly.                 |
| 2.    | Idea / Solution description              | Dry and wet wastes are automatically separated in two separate bins using servo motor and monitored using sensors. |
| 3.    | Novelty / Uniqueness                     | Sensors are embedded with LoRa Technology, which continuously monitors the fill rate of the bins.                  |
| 4.    | Social Impact / Customer Satisfaction    | Clean Cities ,Healthy Environment.   |
| 5.    | Business Model (Revenue Model)           | Offering software as a Service model to government.  |
| 6.    | Scalability of the Solution              | The process of operating this Model is very easy.  |