

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

Date	23 September 2022
Team ID	B2-2M4E
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)	<ul style="list-style-type: none"> <li>❖ Rubbish and waste cause air and water pollution.</li> <li>❖ Rotting garbage is also known to produce harmful gases mix with air and cause breathing problem in people.</li> <li>❖ Due to improper waste disposal, we may face several problems like unpleasant odour and health problems.</li> </ul>
2.	Idea / Solution description	<ul style="list-style-type: none"> <li>❖ To solve this problem of waste management for disposal using a smart refuse bin built with technologies like sensors,arduino yun.</li> <li>❖ Garbage truck weighing mechanisms.</li> <li>❖ AI recycling robots.</li> </ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>❖ Identify political waste streams.</li> <li>❖ Create a waste management focused community outreach plane.</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>❖ Neighbourhood of landfills to communities ,breeding of pests and loss in property values.</li> <li>❖ The IOT solution uses the data and selects optimum routes for waste collection trucks.</li> </ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>❖ It generates revenue through the provision of various waste management and disposal services.</li> <li>❖ Recycling solutions to residential,commercial and municipal diets.</li> </ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>❖ Installing more bins fir collecting recyclables like paper, glass,plastics.</li> <li>❖ Recycling not only save energy but also prevent the material from going to landfills and incineration.</li> </ul>