

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

Date	02/11/2022
Team ID	PNT2022TMID22857
Project Name	Project – Smart waste management system
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 can cause air and water pollution.</li> <li>✦ Rotting garbage is also known to produce harmful gases mix with the 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. 002	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 potential 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,industrial,and municipal clients</li> </ul>

6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>✦ Installing more bins fir collecting recyclables like paper, glass,plastice.</li> <li>✦ Recycling not only save energy but also prevent the material from going to landfills &amp; Incineration and</li> </ul>
		provides raw materials for new products.