

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

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Team ID	PNT2022TMID05359
Project Name	Smart waste management for metropolitan city
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. Rotting garbage is also known to produce harmful gases mix with the air and cause breathing problem in people. Due to improper waste disposal, we may face several problems like unpleasant odor and health problems.</li> </ul>
2.	Idea / Solution description	<ul style="list-style-type: none"> <li>The Proposed system consists of main subsystems namely Smart Trash System(STS) and Smart Monitoring and Controlling Hut(SMCH).</li> <li>In the proposed system, whenever the waste bin gets filled this is acknowledged by placing the circuit at the waste bin, which transmits it to the receiver at the desired place in the area or spot.</li> <li>In the proposed system, the received signal indicates the waste bin status at the monitoring</li> </ul>

		and controlling system.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>Identify potential waste streams. Create a waste management-focused community outreach plane</li> </ul>
4.	Social Impact / Customer Satisfaction	<p>From the public perception as worst impacts of present solid waste disposal practices are seen</p> <p>direct social impacts such as neighbourhood of</p> <p>landfills to communities, breeding of pests and</p> <p>loss in property values</p>
5.	Business Model (Revenue Model)	<p>It generates revenue through the provision of various waste management and disposal services.</p> <p>❖ Recycling solutions to residential, commercial, industrial, and municipal clients</p>
6.	Scalability of the Solution	<p>Recycling not only save energy but also prevent the material from going to landfills &amp; Incineration and provides raw materials for new products.</p>