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

Date	19 September 2022
Team ID	PNT2022TMID41393
Project Name	Project - Smart waste management
	system for Metropolitan cities
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul> <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.	Idea / Solution description	<ul> <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>Al Recycling Robots</li> </ul>
3.	Novelty / Uniqueness	<ul> <li>Identify potential waste streams.</li> <li>Create a waste management-focused community outreach plane</li> </ul>

4.	Social Impact / Customer Satisfaction	<ul> <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> <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> <li>Installing more bins fire collecting recyclables like paper, glass, plastic.</li> <li>Recycling not only save energy but also prevent the material from going to landfills &amp; Incineration and provides raw materials for new products.</li> </ul>