

## PROJECT DESIGN PHASE-I

### PREPARED SOLUTION FIT

Date	14/10/2022
Team ID	PNT2022TMID24496
Project Name	Project - Smart waste management system for Metropolitan cities
Maximum Marks	2 Marks

### PREPARED 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 odor 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></ul>

		<ul style="list-style-type: none"> <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>❖ Neighborhood 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, 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>