

Project Design Phase-I
Proposed Solution Template

Date	16 OCT 2022
Team ID	PNT2022TMID15915
Project Name	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"> ✦ 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 odour and health problems.
2. 002	Idea / Solution description	<ul style="list-style-type: none"> ✦ To solve this problem of waste management for disposal using a smart refuse bin built with technologies like Sensors, Arduino Yun. ✦ Garbage truck Weighing Mechanisms. ✦ AI Recycling Robots.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ✦ Identify potential waste streams. ✦ Create a waste management-focused community outreach plane.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ✦ Neighbourhood of landfills to communities, breeding of pests and loss in property values. ✦ The IOT solution uses the data and selects optimum routes for waste collection trucks.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ✦ It generates revenue through the provision of various waste management and disposal services. ✦ Recycling solutions to residential, commercial, industrial, and municipal clients

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