PROJECT DESIGN PHASE-I

PROPOSED SOLUTION

Date	23/09/2022
Team ID	PNT2022TMID05128
Project Name	Project - Smart waste management system for metropolitan cities
Maximum Marks	2 Marks

PROPOSED SOLUTION TEMPLATE :

S.NO.	PARAMETER	DESCRIPTION
1	Problem Statement (Problem to be solved)	❖ 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.
2	Idea / Solution description	❖ 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	❖ Identify potential waste streams. ❖ Create a waste management-focused community outreach plane.
4	Social Impact / Customer Satisfaction	❖ Neighborhood 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)	❖ 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	❖ Installing more bins fir collecting recyclables like paper, glass, plastic. ❖ Recycling not only save energy but also prevent the material from going to landfills & Incineration and provides raw materials for new products.