Project Design Phase-1 Proposed Solution

Date	16/11/2022
Team ID	PNT2022TMID26538
Project Name	Smart Waste Management System For Metropolitan Cities - IoT
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Ravage and waste can cause environmental pollution.
		Rotting garbage is the cause to produce harmful gases in the air and cause breathing problem to people.
		Due to improper waste disposal, we may face several problems like unpleasant odour and severe health issues.
2.	Idea / Solution description	To solve this problem of waste disposal, we can design a smart garbage bin with inbuilt sensors and IOT devices such like Arduino UNO, Raspberry pi, etc
		 Garbage level and location intimation mechanism .
		Al Recycling Robots.
3.	Novelty / Uniqueness	ldentify potential waste streams.
		Create a waste management-focused community outreach plane.
4.	Social Impact / Customer Satisfaction	Neighbourhood of landfills to communities, breeding of pests and loss in property values.
		The IOT solution uses the data and intimates the information to the local area of management department when it reaches the initial boundary line.
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 separate bins for collecting recyclable and non-recyclable wastes.
		Recycling not only save energy but also prevent the material from going to landfills & Incineration and provides raw materials for new products.