Project Design Phase-I Proposed Solution Template

Date	23/09/2022	
Team ID	PNT2022TMID38779	
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	Rubbish and waste can cause air and
	besolved)	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
2.	Idea / Solution description	problems. To solve this problem of waste
Σ.	idea / Solution description	management for disposal using a
		smart refuse bin built with
		technologies like Sensors, Arduous.
		 Garbage truck Weighing Mechanisms.
		❖ Al Recycling Robots.
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3.	Novelty / Uniqueness	Identify potential waste streams.
		Create a waste management-focused
		community outreach plane.
4. 5.	Social Impact /	Neighbourhood of landfills to
	CustomerSatisfaction	communities, breeding of pests and
		loss in property values.
		❖ The IOT solution uses the data and
		selects optimum routes for waste
	Dusiness Medel (Devenue Medel)	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
	, 22 20 20 20 20 20 20 20 20 20 20 20 20	recyclables like paper, glass,plastic.
		Recycling not only save energy but
		also prevent the material from going
		to landfills & Incineration