

Project Design Phase-I
Proposed Solution Template

Date	10 NOVEMBER 2022
Team ID	PNT2022TMID53817
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)	The problem statement is to build the smart waste management for metropolitan cities to reduce the amount of waste produced everyday by the industries and the households is increasing at an appalling rate, and the major reason for this is soaring use of packaged items, textiles, paper, food, plastics, metals, glass etc,
2.	Idea / Solution description	This project is aimed to developing a smart waste management system for metropolitan cities under the domain of cleanliness and hygiene. By designing embedded IOT system can be monitor each dumpster individually for the amount of waste deposited.
3.	Novelty / Uniqueness	The smart waste management which makes the environment of the city with the low cost. The sensor model detects,

		measures, and transmits waste volume data over the internet.
4.	Social Impact / Customer Satisfaction	Poor waste management contributes to climate changes and air pollution and directly affects many eco systems and species.
5.	Business Model (Revenue Model)	The growing concerns and awareness of need for proper waste management system across the globe,could make the government take initiatives and imply proper environmental regulations of waste management with combination of advance technology and innovative strategies cintributung to the smart waste management market growth in future.
6.	Scalability of the Solution	With the help of smart sensors that are located in smart waste bins that you can easily track your containers. Smart sensors that are empowered with IOT technology will provide you the real time information of your assests.