Project Design Phase-I
Proposed Solution
Template

Date	24 September 2022
Team ID	PNT2022TMID06962
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 municipal workers who are engaged in the collection of garbage require a sustainable, streamlined process for an efficient waste collection system and to integrate the databases containing information about waste from each of the municipal offices to design an improvised system where the garbage collectors or municipal workers will be given an alert regarding the availability of waste.
2.	Idea / Solution description	Smart waste management helps to **reduce the waste**, create waste to energy source also it helps to keep the environment clean and neat. All the city's urban local bodies depending upon the available technology have to spend the money and innovate the new concept of waste management that is the main purpose of smart waste management.
3.	Novelty / Uniqueness	**Sensoneo Analytics:** Sensoneo Analytics has a smart process for waste management, which includes placing sensors on garbage collection bins to monitor which of them are full or not. This integrates with their analytics software to help automate and optimize when and how waste is collected in the city
4.	Social Impact / Customer Satisfaction	➢ raise public awareness of utilizing renewable energy ➢ improve street sanitation ➢ collect and analyze area-specific data on waste volumes for better planning
5.	Business Model (Revenue Model)	As a result, time and fuel consumption are achieved and garbage collection operations are performed in a much more fluid way
6.	Scalability of the Solution	The device can use in all metropolitan cities. Major efficiency of device: Easily identify the level of waste in garbage because it has a sensor