

# Project Design Phase-I

## Proposed Solution Template

<b>Date</b>	23 September 2022
<b>Team ID</b>	PNT2022TMIT08158
<b>Project Name</b>	Smart Waste Management System For Metropolitan Cities
<b>Maximum Marks</b>	

### Proposed solution:

This project presents the development of a smart garbage monitoring system in order to measure waste level in the garbage bin in real-time and to alert the authority, in particular cases.

<b>S. No</b>	<b>Parameter</b>	<b>Description</b>
1	Problem statement (problem to be solved)	Collection of garbage management in cities, towns and villages is a major concern and emerging problem in smart city paradigm, also lack of proper resource distribution in the process of garbage collection is great risk to sanitation, cleanliness and health.
2	Idea / Solution description	Collecting data from smart bins and alerting to the wastage collector. Data analysis for a smarter collection process. The data gathered in this process is analyzed and it is useful insights empowering the users in their decision making process.
3	Novelty / Uniqueness	Enhances scalability with computing power and storage available on demand, with no management burden.
4	Social Impact / Customer Satisfaction	It will help us to clean the cities and gives us healthy environment. When waste is disposed or recycled in a safe, ethical, and responsible manner, it helps reduce the negative impacts of the environment.
5	Business Model (financial Benefit)	Offering software as a service model to the government. One can earn good revenue from waste management business besides creating positive impacts in the society.
6	Scalability of Solution	In this model costumer gets benefits on using smart bins by providing prediction on day to day analysis in waste management system