

PROJECT DESIGN PHASE - 1
PROPOSED SOLUTION TEMPLATE

Date	26 September 2022
Team ID	PNT2022TMID40462
Project Name	Smart Waste Management System for Metropolitan Cities
Maximum Marks	2 Marks

PROPOSED SOLUTION TEMPLATE:

S.NO.	PARAMETERS	DESCRIPTION
1.	Problem Statement	How can the thrash bins in metropolitan cities can be easily notified and cleaned in an efficient manner?
2.	Idea / Solution description	The fill level and weight of garbage in smart bins are observed using a web page and the information is collected using sensors. If the garbage in the smart bin gets filled then the sensors in the bins sends an information alert to the respective authority and sends the GPS location of those smart bins to the respective person.
3.	Novelty / Uniqueness	<ul style="list-style-type: none">➤ Smart waste bins classifies recyclables into separate compartments.➤ This can lower waste management costs as much as 80% and drastically improve employee efficiency.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none">✓ It reduces CO2 emission since the usage of fuel is reduced.✓ Prevents contamination due to overflowing of garbage.✓ Maintain clean environment.
5.	Business Model (Revenue Model)	Offering software as a service model to the respective municipality and creating revenue from it.
6.	Scalability of the Solution	Finally the filled smart bins can be easily managed from small towns to large metropolitan cities.