## PROJECT DESIGN PHASE 1

## PROPOSED SOLUTION TEMPLATE

Date	October 2022
Team ID	PNT2022TMID38320
Project Name	Smart Waste Management System For Metropolitan Cities
Maximum Marks	2 Marks

## **PROPOSED SOLUTION TEMPLATE:**

S.NO	PARAMETER	DESCRIPTION
1.	Problem statement	One of the major problem in metropolitan cities are collection, manage and disposal of waste. The trash we generate which produce more emission that affect us for long term.  The purposes of using IOT in waste management are route optimization, collection and recycling of waste.  The advent of Internet of Things (IOT) technologies facilitates the progress of clean atmosphere and to lead a healthy life style
2.	Idea / solution description	If the bins which reach the maximum level, then sensors sense and alert the authority. The trash collectors collect the waste and dispose waste properly.

3.	Novelty / Uniqueness	Separate bins should be kept to collect biodegradable and non bio-degradable waste in the metropolitan cities. The trash collecting vehicles can be tracked where it coming and notify the location to the civilians
		Eliminating unnecessary garbage truck trips lower carbon emission and reduces the transportation cost. Smart waste container minimize overflow, creating a cleaner and safer environment.
4.	Social Impact / Customer Satisfaction	<ul> <li>Real-time waste monitoring.</li> <li>Predictions for bin fullness.</li> <li>Detailed database of bins and stands.</li> <li>Interactive bin map including Street view.</li> <li>Route planning for waste collection.</li> <li>Overview of scheduled and executed routes.</li> <li>Database of citizen reports.</li> <li>Fire and tilt alarm</li> </ul>
5.	Business Model	Waste Management generates revenue by providing residential, commercial, industrial, and municipal clients with a variety of disposal services and recycling solutions.