Project Design Phase1 **PROPOSED SOLUTION TEMPLATE**

Team ID	PNT2022TMID07334
Project Name	Project – Smart Waste Management System For Metropolitan Cities

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)	This project deals with the problem of waste management in smart cities,where the collection system is not optimized.This project enables the organizations to meet their needs of smart garbage management system allows the person to know the fill level of each garbage bin in a locality or city at all times,to give a cost -effective and time-saving route to the truck drives.
2.	Idea / Solution description	• The proposed system would be able to automate the solid waste monitoring process and management of the over all collection process using IOT(Internet of Things). • The Proposed system consists of main subsystem namely Smart Trash System(STS) and Smart Monitoring and Controlling Hut(SMCH). • In the proposed system, the received signal indicates the waste bin status at the monitoring and controlling system.
3.	Novelty / Uniqueness	We are going to establish SWM in our college but the real hard thing is that cleaner do not know to operate these thing practically so here our team planned to build a wrist band to them, that indicate via light blinking when the dustbin fill and this is uniqueness we made here beside from project constrain.
4.	Social Impact / Customer Satisfaction	From the public perception s worst impacts of present solid waste disposal practices are seen direct social impacts such as neighbourhood of landfills to communities breeding of pests and loss in property values
5.	Business Model (Revenue Model)	Solid waste ,comprising the company's waste collection ,transfer,recycling and resource recovery and disposal services ,which are operated and managed locally by the company's various subsidiaries ,which focus on

		distinct geographic areas and corporate and other activities, including its development and operation of landfill gas to energy facilities in the INDIA ,and its recycling brokerage services,as well as various corporate functions .
6.	Scalability of the Solution	In this regard ,smart city design has been increasingly studied and discussed around the world to solve this problem. Following this approach ,this paper presented an efficient IoT based and real time waste management model for improving the living environment in cities focused on a citizen perspective. The proposed system uses sensor and communication technologies where waste data is collected from the smart bin in real time and then transmitted to an online platform where citizens can access check the availability the compartments scattered around a city.