

Project Design Phase-I
Proposed Solution

Date	07 October 2022
Team ID	PNT2022TMID16239
Project Name	Smart Waste Management System For Metropolitan Cities

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Disposal of waste is a major issues in urban centers of most developing countries and it poses a serious threat to healthy living of the citizens. In this project we can effectively monitor the filling level of waste in each of the containers using IoT and cloud computing technologies.
2.	Idea / Solution description	In this project a Wi-Fi communication link is used transmit data to IoT cloud,depending on the fill level the system send message or alert to the authorities for necessary action.
3.	Novelty / Uniqueness	This project will reduce the fuel and time consumption based on the shortest path the truck use.
4.	Social Impact / Customer Satisfaction	Smart waste management improves the healthy and hygiene environment. It controls the level of air pollution in the environment.
5.	Business Model (Revenue Model)	For the revenue model BigBelly Inc. Has introduced BigBelly ACS which is the first comprehensive access control system for smart waste which works on 100% solar system. It is cloud driven and fully integrated.
6.	Scalability of the Solution	In this project we can further develop the segregation of the different types of waste such as renewable and non renewable waste automatically.