

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID22430
Project Name	Project – Smart waste management system for Metropolitan cities
Maximum Marks	2 Marks

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)	Rapid increase of population leads to the increases in waste. Increasing volume of wastes results in spreading of many diseases and affects the environment. The traditional method of waste segregation is time consuming and also affects the health of person who is involved in segregation.
2.	Idea / Solution description	IoT based Automatic Waste Segregator for efficient recycling and waste collection bins using Wi-Fi technology are used.
3.	Novelty / Uniqueness	Our undertaking utilizes Thing Speak IoT which permits us to total, picture and dissect live information streams in the cloud. A portion of the key capacities of Thing Speak incorporate the capacity to: Easily design gadgets to send information to Thing Speak utilizing main stream IoT conventions Visualize your sensor information continuously.
4.	Social Impact / Customer Satisfaction	Waste collection and segregation becomes easier. Monitoring of bins helps in making city cleaner. It is easy to handle and cheaper.
5.	Business Model (Revenue Model)	Smart dustbin can be used at each house to get maximum benefit out of this model. The components used are easily available in the market for bulk production.
6.	Scalability of the Solution	It is scalable and efficient way of waste management wherein the increased amount of waste, if generated, can be monitored and disposed properly using this project model.