Project Design Phase-I

Proposed Solution

Date	19 September 2022
Team ID	PNT2022TMID31883
Project Name	Project – Smart Waste Management System For Metropolitan Cities
Maximum Marks	2 Marks

Proposed Solution:

Project team shall fill the following information in proposed solution.

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 garbage collection is not regularly optimized.This management system allows the user to know the fill level of each garbage bin in a locality or city at all times, to give cost-effective and time saving route to truck drivers.
2.	Idea / Solution description	1.Garbage level detection in bins. 2.Get the weight of the garbage in the bin. 3.If the bin is Full, the message will automatically send to the Concerned person to clear the garbage in the bin. 4.Garbage level of the bins can be monitored through a application. 5.In this Application, also view the location of every bin in particular location.We can easily to clear the garbage using Smart waste management System.
3.	Novelty / Uniqueness	Our automated waste management system powers and sustainable cities around the world.Smart waste collection improves more hygienic and minimizes the use of garbage trucks.
4.	Social Impact / Customer Satisfaction	By using this we can make our environment clean , more hygienic and control the spreading of infectious diseases from garbage.
5.	Business Model (Revenue Model)	Image processing technology, pick up hand, Conveyor belt, Trash talker and sensors are used to separate wastes, control waste overflow and gives alert to the Concerned person.
6.	Scalability of the Solution	By using IoT , a monitoring technology that collects and tracks real time data, to optimize waste collection and spur future innovation