Project Design Phase-I
Solution Architecture

Date	22 October 2022
Team ID	PNT2022TMID20530
Project Name	Project - Smart Waste Management System For Metropolitan Cities
Maximum Marks	4 Marks

Solution Architecture Diagram:

IBM Watson IOT platform

Arduino

Cloud

External

②
④
Internet of
Things Platform

③
Node-RED
Application

⑦
Data Visualization

⑥
Cloudant NoSQL
Database

Garbage bins fitted with :

Ultrasonic sensor
Weight sensor

On–Truck Data
Collection

Weekly Report
Bin missed   - 12
Incomplete Trips - 5
Total Trips   - 25

Live Status
Status   - Running
Location - Parel Avenue
Waste Load - 67% Full

Driver Behaviour Events
Harsh Braking   - 3
Harsh Acceleration - 4
Overspeeding   - 4

Smart Bins

Mobile App