

FUNCTIONAL FEATURES

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| Date | 18 th November 2022 |
| Team ID | PNT2022TMID28587 |
| Project name | Smart Waste Management System for Metropolitan Cities |

| S.NO | FEATURES | FUNCTIONS |
|------|-----------------|--|
| 1 | Technology | Real-time waste monitoring. |
| 2 | Sensors | Predictions for bin fulness |
| 3 | Cloud database | Detailed database of bins and stands. |
| 4 | Efficiency | Interactive bin map including Street view. |
| 5 | Tracking system | Route planning for waste collection |
| 6 | Optimization | Overview of scheduled and executed route |
| 7 | Progress | Database of citizen reports |

FEATURES OF SMART WASTE MANAGEMENT SYSTEM

- ☐ The smart, sensor based dustbin will judge the level of waste in it and send the message directly to the municipal corporation.
- ☐ It can sense all the type of waste material either it is in the form of solid or liquid.
- ☐ According to the filled level of the dustbin, the vehicles from the municipal corporation will choose the shortest path with the help of the “TRANSPORTATION SOFTWARE” which will save their time.
- ☐ It emphasizes on “DIGITAL INDIA”.
- ☐ The system is simple. If there is any problem with any equipment in the future, that part is easily replaceable with new one without any difficulty and delay.