

# **SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES**

## **PROBLEM STATEMENT- (Team ID : PNT2022TMID04566)**

- 1) Population growth and rapid urbanization lead to huge increase in waste generation ,so the traditional methods of waste collection have become inefficient and costly. The automatic waste collection system collects four most common types of waste with separate collection point of each type of waste. The first type of waste includes general waste, recyclable cardboard, recyclable paper, and organic waste. The waste collection point is generally located near the society, in the garden, or a separate indoor waste collection room is established.
- 2) Traditional waste collection issues are ,inefficient way to identify the waste collection and Fixed routine for waste collection ,this can be replaced by smart garbage management systems that allows the user to know the fill level of each garbage bin in a locality or city at all times, to give a cost-effective and time-saving route to the truck
- 3) Managements also face issues like are wastage of resources(labor,fuel etc.,) and missing the trash collection from every place which cause unclean environment. Implementing automated waste collection system to collect garbage and transport it through an underground vacuum pipes or tubes with a high speed to a nearby collecting station where the waste can be kept sealed and in compacted containers.