**INTELLIGENT WASTE MANAGEMENT SYSTEM IN SMART CITIES BASED ON IOT**

**AIM:**  The main objective of this project is to create a user friendly waste management system using GSM technology.

**Purpose:**

The project was designed in such a way that in order to reduce manual operation and we are implementing the auto intimation.

**BLOCK DIAGRAM:**

**POWER SUPPLY**

**MICRO**

**CONTROLLER**

**LCD DISPLAY**

**IR TX**

**IR RX**

**GPRS MODEM**

**IR TX**

**IR RX**

**DESCRIPTION:**

The system designed here is very useful for municipality and punchayat cleaning purposes. Here we consider a bucket in which the waste is being dumped. On the sides of the waste bucket or dustbin will be placing IR sensors to identify the level of the waste in the dustbin. Here we consider IR sensors identifying low high medium levels of the waste being dumped in the dustbin. The information related to the waste level in the dustbin is displayed in the LCD. The data related to the waste level will be transferred to the IOT web page using GPRS technology.

**SOFTWARE USED:**

1. Embedded C
2. Keil IDE
3. Uc-Flash or ISP
4. Express PCB

**HARDWARES:**

1. Micro controller
2. Power supply
3. GPRS
4. IR Sensors
5. LCD