

A

Report on

SMART MANHOLE INTRUSION DETECTION SYSTEM

A report submitted for the partial fulfillment of the requirements for Mini Project of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

KEMBURU SAISREE (19811A0423)

Under the guidance of

Mr V Raju M.Tech

Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

TAMARAM, MAKAVARAPALEM, NARSIPATNAM-531113

2021-2022

# AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

Tamaram, makavarapalem, narsipatnam road, Visakhapatnam dist-531113

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**MINI PROJECT**

**(SMART MANHOLE INTRUSION DETECTION SYSTEM)**

**BY**

**NAME: KEMBURU SAISREE**

**REG NO: 19811A0423**



**INTERNAL COORDINATORS**



**EXTERNAL EXAMINER**



**HOD, ECE**

**HEAD OF THE DEPARTMENT  
DEPARTMENT OF ECE  
Avanthi Institute of Engg. & Tech.  
Makavarapalem, Visakhapatnam Dist-53- 113.**

# **SMART MANHOLE INTRUSION DETECTION SYSTEM**

## **ABSTRACT**

Manholes have the community to grow part of modern society they are channelling so much water from one city to another where the world's population is increasing graphically particularly the urban population, the increasing population resulted in so much water this massive increase so much burden to infrastructure creating manholes overflow, frequent maintenance and also closing traffic jams. The main problem is rainwater getting into manholes to overflow and the industrialisation is polluting the water by realising dangerous water. currently all the manholes are maintained manually which resulted in massive cost, effort and inefficient. in the current approach it is impossible to know in advance which manhole is going to overflow in the vast cities. it is not possible to know the gases present inside the manholes in advance before getting into the manholes it is not possible to know the sewage water qualities remotely.