**DESIGN OF ONLINE MONITORING DEVICE FOR HAZARDOUS GASES LIKE METHENE AND HYDROGEN SULPHATE IN INDUSTRIAL SAVAGE AND MANHOLE**

**ABSTRACT:**

In this paper, a method for hazardous gases like methane and hydrogen sulphate leakage detection and monitoring in the manholes and industrial savages by using internet of things (IOT) is proposed. The idea is to use Internet of Things (IOT) phenomena to gather all the required information for detection of the leakage point. The safe operation of these complex systems is of significant importance due to the intrinsic characteristics of gases such as: toxicity, flammability and explosion velocity. In this work, a real-time leakage monitoring model of the long distance pipelines in industries, manhole is proposed. And a leakage detection and localization mechanisms based on the above model were studied. In order to process the acquired data from the pipelines and other places Practical data gathered from a real life is used to train the network to make sure that the proposed method is applicable real life projects.