Literature Survey: Gas Leakage Monitoring and Alerting System

Sr. No	Paper Title	Author Name	Publication Year	Techniques Used	Merits
1	Sensor based gas leakage detector system	Neha Chourasia, Papiha Ajmire, Saurabh Shambharkar, Shraddha Khobragade, Sanket Bhajgaware, Shivani Janbandhu	2022	Arduino Uno, LPG gas sensor MQ- 2, SMPS,NodeMCU	The systems are often enhanced by adding an impact element which controls the gas leakage if it exceeds the required upper explosive level for the varied gases within the plant area
2	Gas leakage detection and alerting system using Arduino Uno	Syeda Bushra Shahewaz , Ch. Rajendra Prasad	2020	Arduino UNO, MQ-2,MQ-135,MQ-7 gas sensor, GSM Modem	Gas leakage can be sensed at particular zone
3	Gas Leakage Detection and Smart Alerting System Using IoT	Shital Imade, Priyanka Rajmanes, Aishwarya Gavali	2018	Wireless sensor network,Cloud connection,Context-Adaptive Multimodal Wireless Sensor Network	Application of a Continuous Leak Detection System to Pipelines
4	Internet of Things (IoT) Based Gas Leakage Monitoring and Alerting System with Mq-6 Sensor	Rohan Chandra Pandey, Manish Verma, Lumesh Kumar Sahu, Saurabh Deshmukh	2018	ARM CORTEX M4, MQ-6 LPG Gas Sensor, Raspberry pi 3 ,GSM module	Use of MQ-6 over MQ-2 gas sensor ,the system also notifies the consumer and concerned authority about the leakage with the help of SMS and Email

5	IOT Based Gas Leakage Detection System with Database Logging, Prediction and Smart Alerting	Chaitali Bagwe, Vidya Ghadi, Vinayshri Naik, Neha Kunte	2018	MQ5 gas sensor, GSM module, NodeMCU, DHT22 sensor	provide safety to the users against harmful gases also analyze the data stored in database to make predictions which can be helpful in current and future use
6	Gas Leakage Detection and Smart Alerting and Prediction Using IoT	Asmita Varma, Prabhakar S, Kayalvizhi Jayavel	2018	Arduino UNO, Ethernet Shield, GSM Module, Gas Sensor-MQ2,ThingSpeak	Performing Big Data Analytics on the sensor readings, A dedicated mobile application could be made for the system
7	Internet of Things (IOT) Based Gas Leakage Monitoring and Alerting System with MQ-2 Sensor	Rohan Chandra Pandey, Manish Verma, Lumesh Kumar Sahu	2017	ARM CORTEX M4, MQ-2 gas sensor, Raspberry pi 3,GSM module	It is connected to a common free IOT based web page specially built to notify or email the responsible authority automatically so reduces the stress of constant monitoring