

LITERATURE SURVEY

Sl.NO	TITLE & AUTHOR	YEAR & PUBLICATIONS	METHODOLOGY	ADVANTAGE	DRAWBACK
1.	<p>Liquefied petroleum gas monitoring and leakage detection system using nodemcu ESP8266 and wi-fi technology.</p> <p>Suzi Seroja Binti Sarnin, Divine Senanu Ametefe, Nani Fadzlina Naim, Wan Norsyafizan Wan Mohamad, Norlela Ishak, Norfishah Ab Wahab, Norsuzila Ya'acob</p>	<p>August 2019, Faculty of Electrical Engineering, Universiti Teknologi MARA, Malaysia/</p>	<p>Blynk Buzzer LED LPG MQ-2 NodeMCU ESP8266,Stepper motor.</p>	<p>To prevent accident & to save human live.</p>	<p>Its sensitivity depends on temperature.</p>
2.	<p>Sensor based gas leakage Detector system.</p> <p>Sanket bhajgaware Neha chourasi Papiha Ajmire</p>	<p>June 2022, Electronics &Tele communication Department. Guru Nanak Institute of Engineering & Technology, Nagapur, India.</p>	<p>Arduino UNO, LPG gas sensor MQ-2, LCD, Exhaust fan microcontroller, Relay board, Servo motor, LED light, SMPS.</p>	<p>Continuous monitoring.</p>	<p>Detected any moisture, Accuracy of location.</p>
3.	<p>Gas leakage detection and alerting system using Arduino Uno.</p> <p>Syeda Bushra Shahewaz, and Ch. Rajendra Prasad.</p>	<p>2019, Department of ECE, S R Engineering College, SR University Warangal, Telangana, India.</p>	<p>Arduino UNO,MQ2 Gas Sensor, GSM Modem, LCD, Buzzer.</p>	<p>Applicable usefully in the industrial and domestic purpose.</p>	<p>It is very cost effective.</p>

4.	<p>A survey on gas leakage source detection & boundary tracking with wireless sensor networks.</p> <p>LEI SHU, MITHON, KUNWANG, Mukherjee.</p>	2016 May, Guangdong university of petrochemical Technology, China.	WSNs, diffusion model, Source localization, boundary detection & tracking.	Tracking of continuous objects with WSNs.	Large scale temperature fluctuation.
5.	<p>Gas leakage detector & monitoring system.</p> <p>Yekini N.Asafe Adigun J. Oyeranmi loyede A.Olamide Akinade O. Abigael</p>	June 2022, International Journal of engineering & manufacturing	Arduino UNO micro controller, GSM module, MQ 2 Gas sensor, Buzzer, Power module, Stripped Vero board, OLED Display, Power switch, LEDs, connectors, Lithium polymer, Rechargeable battery.	Wireless modularization, To prevent damages escalation.	It was a very cost effective.
6.	<p>Micro controller based LPG detector using GSM Module.</p> <p>KIRTI Prakash, Manish Patel.</p>	2016 February, Slide share a scribed company	Arduino UNO, Gas sensor, Module for SMS Alerts & sound alarm.	Improves the safety & continuous monitoring.	High cost.
7.	<p>LPG gas leakage detection and alert system.</p> <p>E.Jebamalar Leavline1 , D. Asir Antony Gnana Singh2 , B. Abinaya3 H. Deepika4</p>	2017 November, Department of Electronics and Communication Engineering, Department of Computer Science and Engineering, Anna University.	IC7805, +5v regulated power supply, LPG, MQ-6 gas sensor.	To prevent accident & to save human live.	Material losses & human injuries.
8.	<p>GSM based gas leakage detection system.</p> <p>Merry Nicholson.</p>	2016, Hwsensor.com	AT 89551 micro controller Gas sensor- MQ6, ULN2003 driver, stepper motor, GSM module, Buzzer, power Supply.	Strong shield, low power consumption.	Will not find very small leakage.

9.	Gas leakage detection & Smart alerting System. K.Mankandan, Simrah ummeRaman, Mr.C.Kishor kumar.	2018, Stanley college of Engineering & Technology for women, Hyderabad.	Ardunio UNO, ESP8266 WiFi module, MQ-5 sensor, Buzzer, LED, Jumper wires.	Continuously monitored.	Low flow rates.
10.	A survey paper on Gas leak Detection using IOT. Manichandana, Simrah, Ms.Pr. Anisha, Dr.B.V.Ramana Murthy.	2019 January, Stanley college of Engineering & Technology for women, Hyderabad.	WSNs, diffusion model, Source localization, boundary detection & tracking.	Tracking of continuous objects with WSNs.	Large scale temperature fluctuation.