GAS LEAKAGE MONITORING AND ALERTING SYSTEM

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S.No	LINK	YEAR & JOURNAL	PAPER TITLE	AUTHOR NAME	SOLUTION
1	https://www.researchgate.net/publication/361562550_Gas_Leakage_Detector_and_Monitoring_System	Proceedings of Article in International Journal of Engineering and Manufacturing · June 2022	Gas Leakage Detector and Monitoring System	Nureni Asafe Yekini,Oyeranmi Adigun,Oloyede O Adetokunbohas , Akinade Abigail Oluwatoyin	This work presents the design and implementation of gas leakage detection system. Various works on gas leakages detection system was reviewed and presented. I was discovered that some of the existent research don't takes in to considerations the cost effectiveness for the purpose of implementation of gas leakages detection at individual/domestic uses, and not easy to be further modified. This research work had advanced in knowledge as it included an embedded system to alert users via multiple mobile phones for further action to be taken when leakage is detected. The device detects gas leakage using a highly sensitive MQ-2 gas sensor to activate a buzzer that alert people of leakages, and also sent an SMS with the information "Gas Leakage Detected" from the SIM800 GSM Module as a backup to alert the appropriate authority or facility owner of a gas leakage. This design could be adopted, funded, and implemented as it has a great potential of mitigating against accidents

					associated with LPG leakage. .
2	https://www.ijert.org/efficient-gas-leakage-detection-and-control-system-using-gsm-module	Published on International Journal of Engineering Research & Technology (IJERT) , 2018	Efficient Gas Leakage Detection and Control System using GSM Module	A. Anurupa, M. Gunasekaran, M. Amsaveni	The result of this project is that the leakage is detected and stopped within 2 seconds, after the leakage starts. This system can detect even 0.001% of leakage.This is an efficient method for automatically detecting and controlling the LPG gas leakage. Moreover, the fire accidents are also prevented by switching off the power supply.
3	https://iarjset.com/wp-content/uploads/2021/07/IARJSET.2021.86144.pdf	International Advanced Research Journal in Science, Engineering and Technology, 2021	Smart Gas Leakage Detection with Monitoring and Automatic Safety System	Ms. Sayali P. Shinde, Ms. Sakshi S. Chavan, Ms. Snehal S. Dhas	The proposed system monitors and develops LPG gas leaks that detect air leaks and if it exceeds the safety level, it buzzer and sends notifications using mobile. This user is alerted to the dangers and unusual situations to perform the required activity.Gas leaks not only pollute the environment but also dissipate gases, damaging our economy. This system will help if such a situation arises.This proposed system can be used in case of leakage of LPG gas in commercial areas like hospitals, shops and hotels. We can avoid dangerous accidents caused by gas leakage with the help of gas leak detection system.2
4	https://www.ijraset.com/best-journal/iot-based-industrial-gas-	March 2022	Design and Development of IOT based	Mourya Sirapu	Vehicles using LPG Cylinders and even in households to detect leaks .

	leakage-monitoring-system		Industrial Gas Leakage Monitoring System		Chemical industries, offshore &onshore drilling sites, national pipelines, mines, scientific laboratories, power plants (nuclear, thermal, etc). An outer casing that is vibration, moisture, dust resistant must be designed. The system can be customized to detect any type of gas by changing the sensor appropriate to the application. Multiple sensors can be incorporated to monitor multiple parameters in a single environment.
5	https://www.academia.edu/44832821/Gas_Leakage_Detection_and_Alert_System_using_IoT	International Journal of Scientific Research in Science and Technology , 2019	Gas Leakage and detection Using IOT	*Sayali Joshi, Shital Munjal, Prof. Uma B. Karanje*	The advantage of this simple gas leak detector is its simplicity and its ability to warn about the leakage of the LPG gas [11]. This system uses GSM technique to send alert massage to respective person if no one is there in the house and then gas leaks occurs, GSM module is there to send immediate messages to the respective person regarding the gas leak [13]. The main advantage of this system is that it off the regulator knob of the cylinder automatically when gas leakage detected.

6	https://www.researchgate.net/profile/Manish-Verma-25/publication/357768396_INTERNET_OF_THINGS_IOT_BASED_GAS_LEAKAGE_MONITORING_AND_ALERTING_SYSTEM_WITH_MQ-6_SENSOR/links/61de94ae5c0a257a6fe0c023/INTERNET-OF-THINGS-IOT-BASED-GAS-LEAKAGE-MONITORING-AND-ALERTING-SYSTEM-WITH-MQ-6-SENSOR.pdf	IJCRT , 2018	IOT Based Gas Leakage and Alerting System With MQ-6 Sensor	Rohan Chandra Pandey, Manish Verma, Lumesh Kumar Sahu,Saurabh Deshmukh	Discussion on how the aims and objectives are met is presented. An overall conclusion IOT based toxic gas detector is it has become more efficient, more applicable to today's applications and smarter.