**IDEATION PHASE**

**LITERATURE SURVEY**

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| **SI.NO** | **PAPER TITLE** | **AUTHOR NAME** | **PUBLICATION**  **YEAR** | **RESULT** |
| 1 | Internet of Things (IOT)  Based Gas Leakage  Monitoring and Alerting  System with MQ-2 Sensor | Rohan Chandra  Pandey, Manish  Verma, Lumesh  Kumar Sahu | 2017 | This paper choice of using a  real time gas leakage  monitoring and  Sensing the output levels of gas  has been clearly observed by  the help of this system |
| 2 | Gas Leakage Detection and Smart Alerting and Prediction Using IoT | Asmita Varma, Prabhakar S, Kayalvizhi Jayavel | 2017 | The proposed gas leakage detector is promising in the Field of safety. |
| 3 | IOT Based Gas Leakage Detection System with Database Logging, Prediction and Smart Alerting. | Chaitali Bagwe, Vidya Ghadi, Vinayshri Naik, Neha Kunte | 2018 | The system provides constant monitoring and detection of gas leakage along with storage of data in database for predictions and analysis. The IOT components used helps in making the system much more cost effective in comparison with traditional Gas detector systems. |
| 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 | A 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. |
| 5 | Gas Leakage Detection and Smart Alerting System Using IoT | Shital Imade, Priyanka Rajmanes, Aishwarya Gavali | 2018 | In this paper we use IOT technology for enhancing the existing safety standards. While making this prototype has been to bring a revolution in the field of safety against the leakage of harmful and toxic gases. |
| 6 | Gas Leakage Detection And Prevention System | Kulothungan.S,  Gukan.A, Arunprabu.K.B | 2019 | The fire detection system will be able to communicate with other building systems, correctly discriminate between fire and non-fire threats, identify the exact location of a fire in the building and provide continuous estimates on smoke and fire spread in the building. However, the integration technology may also create new risks. |
| 7 | Gas Leakage Detection and Prediction using IoT | Nagabhushan Adiga , Meghana S. Naik , Avinash. B, Mamatha. G, Sadananda. | 2019 | The proposed gas leakage detector is promising in the field of safety. The attempt while making this prototype has been to bring a revolution in the field of safety against the leakage of harmful and toxic gases to minimize and hence nullify any major or minor hazard being caused due to them |
| 8 | Gas Leak Detection And Smart Alerting Using IoT | Raj Singh  Rishabh Singh  Ankit Tiwari  Saurabh Suman | 2021 | The system is successfully built using the required hardware and tested practically .The data collected from the gas sensors was successfully uploaded to the thing speak cloud .The data was plotted using the graphs and the required alert information was communicated to the user |
| 9 | Gas Leakage Monitoring System Detection and Alert System Using IOT | K. Muni Sankar , Dr. B.Booba | 2021 | This system has a sensing range that is set via the IOT platform site; if it is low, the system is not on or does not turn the valve and exhaust on; if it is in the 200-1000 ppm range or greater, the system detects a gas leak and alerts the user via buzzer sound; and if the user is unable to turn off the valve manually within one minute, the system turns off the valve automatically and the exhaust fan is on until the gas levels in ppm present. |
| 10 | Gas Leakage Detection And Alerting System Using IOT For Home And Industrial Safety | R.Sudha ,S.Arun Prasad | 2020 | Once the gas leakage is detected, the buzzer is turned ON and a ‘Leakage detected’ message is displayed on the LCD. The Pre-requisite for this LPG gas leakage detection and the smart alerting project is that the Wi-Fi module should be connected to a Wi-Fi zone or a hotspot. |

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