LITERATURE SURVEY:

[1] Sanjoy Das, Sahana S, Soujanya K Swathi M C, "Gas leakage detection and prevention using IoT": International Journal of Scientific Research % Engineering Trends. Vol 6, Issue 3, May-June 2020, ISSN (online): 2395-566X.

This paper fundamentally manages the advancement of a straightforward gas spill locator at the underlying stage and after that changing this basic gadget into a most progressive gas identifier framework later on. Gas sensors have been specifically utilized which has high affectability for propane (C3H8) and butane (C4H10). Gas leakage system consists of GSM (Worldwide System for versatile communication) module, which sends SMS as soon as gas leakage is detected. Keywords: Arduino, MQ-6 Gas Sensor, LCD, LPG, Stepper.

[2] Dr. Chetana Tukkoji, Mr. Sanjeev Kumar, "Review paper on-LPG Gas leakage detection using IOT": IJEAST –International Journal of Engineering Applied Science & Technology, Vol 4, Issue 12, April 2020 IJEAST (online): 603-609.

To alert on Liquefied rock oil Gas (LPG) leakage and preventing any unwanted incident, we need to apply some cautions to discover the discharge. It can be developed associate degree Arduino based LPG gas detector alarm, if gas leakage happens. The LPG detector MQ 6 is associate degree correct LPG sensing device that acquires the signal intensity. The intensity of the LPG leakage is classed into 3 categories, such as LOW, MEDIUM and HIGH based on square measure. This paper conjointly shows the ratio and temperature over the alphanumeric display.

[3] Amatul Munnaza, Rupa Tejaswi, Tarun Kumar Reddy, Saranga Moahan "IoT Based Gas Leakage Monitoring System": Journal of Xi'an University of Architecture & Technology (JXUAT), Vol 12 ISSN No: 1006-7930, Issue 5, 2020.

The foremost object of this work is to monitor gas leakage in any industries using gas sensor and Spartan 6 FPGA process. Structure a cloud-based monitoring system is very important to reduce the cost of preserve servers, to avoid data misplaces and to make the access easy with multiple internet linked devices (computer, tablet, mobile phone) at the similar time anywhere in the world. With Internet of Things (IOT), we can control any electronic equipment.

[4] Gas Leakage Detection and Prevention System, Shreyas Thorat, Neha Tonape, International Journal of Trendy Research, Vol 4, Issue 7, Dec 2020, ISSN NO: 2582-0958.

The objective of this project is to present the design of a automatic alarming system, which can detect and prevent liquefied petroleum gas leakage in various premises. This system alerts the user by sending him a phone call and alerting the neighbours by buzzer alarm after the gas leaks above setpoint1.The servo motor is used to close the gas pipe valves. This device ensures safety and prevents suffocation and explosion due to gas leakage. This project is implemented using Arduino uno and simulated using Arduino ide and proteus software.

[5] Rohan KH1, Navanika Reddy, Pranamya Maddy, Sachit Girish, Dr. Badari Nath K-"IOT based gas leakage detection and Alerting system": JRP Publications,Vol. 1(1), pp no. 002-006, February 2021.

Gas leakages are causing massive explosions in places throughout the World. The conventionally available gas leakage detectors only have the provision to alarm the user who is physically present at the spot. Hence, to overcome this limitation, this project implements a model which sends an email to the user in case there is a leakage. This model detects the leakage of Liquid Petroleum Gas & Benzene. The prototype of this model generates an email to the concerned person using IFTTT web service. An LED is also used as a visual alarm at the site of leakage.

Proposed method:

Gas detection system can be used to detect combustible, flammable and toxic gases, and oxygen depletion. This type of device is used widely in Industry. In the above methodologies they used only GSM and send the message that contains about the gas leaked only

. **In our method, we are using GPS for identifying the exact location and send the location through message to the admin with the details of concentration level of gas.**