**LITERATURE SURVEY**

**Team No** : 3

**Team ID** :PNT2022TMID29999

**College Name** :Er. Perumal Manimekalai College of Engineering

**Department** :Computer Science and Engineering

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| S.No | TITLE | PROPOSED WORK | TOOLS USED/  ALGORITHM | TECHNOLOGY | ADVANTAGES/  DISADVANTAGES |
| 1. | Gas Leakage Detection System for Industrial Plants Using IoT: | It generates a sound alert using buzzer on detection | LPG , Methane,  Benzene. | Leakage detector | It has low cost of manufacturing  If the power supply fails ,the system don’t work |
| 2. | Detection and Location Identification System for Pipeline Gas Leakage: | The proposed system for leak detection case study, model identification, adaptive thresholds calculation and, leak detection | mobile phones, laptops, and other IOT devices. | Gas detection sensors | Very sensitive Portable  Time consuming Expensive Labor intensive |

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| 3. | Smart Cooking Stove Development: | An energy collection system from cooking heat has also been developed in this research work to improve the efficiency of the traditional cooking stove | Slow cooker, rice cooker, juicer, blender etc.. | Thermoelectric Cooler | Cooking on gas is cheaper than electric cooking.  Much loss of heat: no efficient energy consumption. |
| 4. | The gas leakage solution for industrial places: | The mobile sensors are positioned near the susceptive sources, and the readings are analyzed there. These readings are subsequently delivered through wireless link to consumers or workers | Lightest ultrasound camera | Mobile sensors , gas sensors | Low maintenance and low operating cost.  Reliable technology |

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| 5. | Booking, Sensible gas level observance and Gas outpouring detector victimization: | Radio frequency module, which comprises of a transmitter and receiver kit | Receiver kit, fixed decoder kit | LPG cylinder | Fixed encoder kit being simple to use  It uses a CPU rather than a controller |
| 6. | Gsm Based Gas Leakage Detection System | It can automatically detect and stop gas leakage in vulnerable premises. | Propane, butane | Gas leakage detecting kit | cost effective and highly accurate system  high accuracy gas sensor MQ-6 has been used. |

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| 7. | Cloud Connected Smart Gas Leakage Detection and Safety Precaution System | Gas valve closing, ventilation opening, fire sprinkler activation and home electrical power supply | ARM Cortex-M4 microcontroller | Device can be controlled from the smartphone app | low cost, powerful and user friendly way of real-time monitoring and remote control cut-off |
| 8. | Wireless Sensor Networks in the Oil, Gas and Resources Industries | provides a study on the use of Wireless Sensor Networks (WSNs) in refineries, petrochemicals, underwater development facilities | Remotely monitor pipelines, natural gas leaks, corrosion, H2S, equipment | Wireless Sensor Networks | prevent or detect health and safety issues or to enhance production |

THANK YOU