

PROJECT DESIGN PHASE 1

GAS LEAKAGE MONITERING AND ALERTING SYSTEM

| S.No | PARAMETER | DESCRIPTION |
|------|--------------------------|--|
| 1. | Problem Statement | Liquid Petroleum Gas (LPG) is a highly flammable chemical that consists of mixture of propane and butane. LPG is used for cooking at home, restaurant, and certain use for industry. They have certain weaknesses that make the gas leakage occur. The leakage of gases only can be detected by human nearby and if there are no human nearby, it cannot be detected. But sometimes it cannot be detected by human that has a low sense of smell. Thus, this system will help to detect the presence of gas leakage. |
| 2. | Idea | The sensor-enabled solution helps prevent the high risk of gas explosions and affecting any casualties within and outside the premises. The gas sensors help detect the concentration of the gases present in the atmosphere to avoid hazardous consequences like fire breakouts. Natural gas detectors can alert you and your family of odorless and dangerous leaks. Natural gas detectors may not be as common on the list of must haves for the home such as a smoke detector or fire extinguisher, but these devices are worth serious consideration and can detect potentially serious situations. |
| 3. | Novelty | The novelty of this project is to predict whether, the person who not able to smell the leakage of the gas. By their careless they can take their lives to death. Hence by this project they can come to know that the gas is leaking and they may off that. |
| 4. | Social Impact | By implementing real-time gas leak detection, industries can monitor their environmental performance, ensure better occupational health, and eliminate potential hazards for optimum safety. Also, early detection of gas leaks can trigger concerned engineers to curtail the spread and keep a safe environment for better health and safety. |
| 5. | Business model | Will make a innovation this and will give to the big industries By this they can work easily without any fear in the industries |
| 6. | Scalability and Solution | In this proposed system that sensors which we fix in the detectors that makes a warning. which they indicate the gas leakage area so easily they can fix that by off the regulators of the gas pipes... |