

Project Design Phase-I
Proposed Solution Template

Date	5 November 2022
Team ID	PNT2022TMID13200
Project Name	Gas Leakage Monitoring and Alerting System
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	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 / Solution description	If the gases can be leaked in industries or home, then it will detect by using gas sensor after that it gives alert sound to the people by using buzzer. In this way we avoid the huge explosion.
3.	Novelty / Uniqueness	Ability to predict the hazardous gases like LPG and propane. User Friendly and Live alert to the workers.
4.	Social Impact / Customer Satisfaction	Low Cost, Compact Size, and more convenience so any people can buy the product.
5.	Business Model (Revenue Model)	It is cost-effective.
6.	Scalability of the Solution	Includes many Hazardous gas detection in industries. The system can be extended in future based on industry requirements and features.