

# Project Design Phase-I Proposed Solution Template

Date	8th Oct 2022
Team ID	PNT2022TMID03956
Project Name	Gas Leakage Monitoring and Alerting System
Maximum Mark	2 marks

## Proposed Solution Template :-

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Gas detector can sound an alarm to operators in the area where the leak is occurring , giving them the opportunity to leave. This type of device is important because there are many gases that can be harmful to organic life , such as humans or animals.
2.	Idea / Solution description	We can use sensors that are used to detect essence of propane , Iso-butane , LPG and even smoke. These sensors have an advantage to combine a sensitivity response time. The system will detect the presence of excess amount of harmful gases in environment and immediately turns ON the buzzer for danger indication . Buzzer is a clear indication of gas leakage.

3.	Novelty / Uniqueness	Although, there are many solutions for this problem but they have some disadvantages . Some of the solutions only detect some particular gases and some others only detect those gases and alert small distance only we can rectify these issues by alerting large area and detect more gases.We can notify fire and rescue service department by sending the alert message to them.
4.	Social Impact / Customer Satisfaction	The solution given by us will be more helpful for the workers and the society. Our solution will prevent great losses like Bhopal Gas Tragedy in the world. We can also save more lives of people. Our project helps the people and those workers who works in industries which uses harmful gases .Our projects gives them mental relief and safer environment.
5.	Business Model (Revenue Model)	The main objective of our project is to save lives.So we can establish this project as a product and we can visit some industries and make them aware of this project so we can establish our project in their industries.
6.	Scalability of the Solution	We can use our project as a basic model and we can develop our project in a large scale and establish some new ideas in the future .We can upgrade our project in the future.