

Project Design Phase-I
Proposed Solution Template

Date	17 October2022
Team ID	PNT2022TMID18250
Project Name	Project – 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)	To Monitor and Alert the Gas Leakage (To monitor and alert the gas leakage in industries and factories)
2.	Idea / Solution description	The LPG sensor senses gas leak from work place or home, sensor output goes to active low (logic-0) condition. Arduino UNO is used in the project; low signals are overlooked by the Arduino and gas leakage is been noticed by the Arduino. The Arduino UNO turns on the LCD and buzzer.
3.	Novelty / Uniqueness	Using only low-cost components with efficient gas monitoring and alerting methods
4.	Social Impact / Customer Satisfaction	Our aim is to ensure that the supply of products and services is appropriate and satisfies our consumers.
5.	Business Model (Revenue Model)	This technology has empowered the creation of gas detection systems that allow different industrial segments to supervise and control the use of toxic gases and asphyxiants in their facilities. These systems are an essential commodity in such industries since they allow them to detect leakage of noxious and explosive gases, maintain proper oxygen levels for workers, and comply with emission regulations and norms.
6.	Scalability of the Solution	Gas monitoring system uses wireless sensors to detect the presence of toxic gases and asphyxiants. The solution can hence be scaled up for flexible functionality and offer great extendibility for multi-purpose usage.