

**Project Design Phase-I**  
**Proposed Solution Template**

Date	20 october 2022
Team ID	PNT2022TMIDxxxxxx
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)	Workers who work in bustling industries that are full of gas, whether harmful or not, require a technique to monitor their gas levels. pipelines continually and quickly identify is there a gas leak anywhere nearby so that they can effectively handle big disasters instead than stressing over monitoring or gas leaks, which will in fact lessen the manpower of that sector and establish a tranquil surroundings. Not only in industries but in our home too, we sometimes leave our gas or stove on and leave home without knowing we accidentally on electrical appliances which causes disaster.
2.	Idea / Solution description	The sensor will wirelessly transmit its data to Arduino if there is a gas leak. The system for preventing explosions will then be turned on.
3.	Novelty / Uniqueness	Although there are several existing solutions to this issue, none have been able to meet client demands. Some methods only detect certain gases, while others fail to notify the primary department, and yet others experience delays. Our system will inform the users even if there is a little gas leak, notifying the person as well as the fire fighters so they can take care of the issue.
4.	Social Impact / Customer Satisfaction	The sensor-enabled technology reduces the possibility of gas explosions, which pose a serious threat to both inside and outside the building victims. To prevent potentially dangerous outcomes like fire outbreaks, the gas sensors assist in determining the concentration of the gases present in the atmosphere.
5.	Business Model (Revenue Model)	Gas leaking causes a variety of incidents that cause both material loss and human injuries.

		The environment has the greatest everyday impact on people's health problems.
6.	Scalability of the Solution	<p>This project has the effect of detecting and stopping leaks within 10 seconds of their beginning. This technology can find leaks as little as 0.001%.</p> <p>This is a powerful technique for automatically locating and stopping an LPG gas leak.</p> <p>Moreover, turning off the power supply also prevents fire incidents.</p>