

Project Design Phase-I
Proposed Solution Template

Date	15 October 2022
Team ID	PNT2022TMID30616
Project Name	Gas Leakage Monitoring and Alerting System for Industries
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)	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 system detects the level of gas in the air that exceeds the safety level it will activate the alarm which includes the buzzer to alert the users at industries of the abnormal condition and to take any necessary action.
3.	Novelty / Uniqueness	Reducing the cost of the gas leakage detector and increasing the accuracy percentage.
4.	Social Impact / Customer Satisfaction	These leaks cause safety threats and secondary accidents for those working in industry and the environment
5.	Business Model (Revenue Model)	The gas detector market is forecast to reach \$2.96 billion by 2025, growing at a CAGR of 4% during 2019-2025.
6.	Scalability of the Solution	A wide range of industrial fixed gas detectors featuring flexible integration, simple installation, user-friendly operation