

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

Date	15 October 2022
Team ID	PNT2022TMID11539
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)	To help the industries in detecting the leakage of harmful gases along with monitoring and alerting the admins by notifying them using IOT.
2.	Idea / Solution description	Gas leakage is a major problem with industrial sector, residential premises when gas concentration reaches the threshold values then SMS alert is sent
3.	Novelty / Uniqueness	We use IOT technology for enhancing the existing safety standards. This prototype has been to bring a revolution in the field of safety against the leakage of harmful. Gas leakage systems consists of GSM module, which warns by sending SMS immediately.
4.	Social Impact / Customer Satisfaction	Prevent accidents and to save human's lives worker satisfy is important therefore gas detection systems are frequently upgraded, expanded or replaced. Large industrial equipments are prevented from damages.
5.	Business Model (Revenue Model)	Without this solution industries undergo large financial losses in case of equipments and workers. By using this solution both life and industrial properties can be prevented. costly machines cannot be bought too often
6.	Scalability of the Solution	Wi-Fi module can be used for large scale areas like industries to monitor leak of gas in each room from the control room. We can use temperature sensor, Multi Language Display, audio o/p to make it user friendly. However, this application can also be developed in future by integrating more number of equipments to measure various parameters, for instance, a humidity sensor or an optical sensor to determine the humidity