

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

Date	26 OCTOBER 2022
Team ID	PNT2022TMID14170
Project Name	Gas Leakage monitoring & Alerting system for Industries
Maximum Marks	2 Marks

**Proposed Solution:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>Develop an efficient Gas Leakage Monitoring &amp; Alerting System for Industries</p> <p>Such that 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.</p> <p>Furthermore, gas leakage can cause fire that will lead to serious injury or death and it also can destroy human properties. This system was developed by using IoT to give real-time response to the user and the nearest fire station.</p>
2.	Idea / Solution description	<p>Detect the presence of toxic gases and asphyxiants such as H<sub>2</sub>S, Methane, and CO in your industrial facilities or commercial buildings through gas sensor.</p> <p>Get alerts about presence of such gases or increasing temperatures through gas analyzers and monitors of our solution; and take immediate actions to curb fires and explosions.</p>
3.	Novelty / Uniqueness	<p>Get real-time alerts about the gaseous presence in the atmosphere</p> <p>Prevent fire hazards and explosions</p> <p>Supervise gas concentration levels</p>

4.	Social Impact / Customer Satisfaction	<p>Get immediate gas leak alerts</p> <p>Cost-effective</p> <p>Real-time updates about leakages</p>
5.	Business Model (Revenue Model)	<p>By using this system, the user can detect Harmful Gas, Measure the level of toxic gases</p> <p>.</p>
6.	Scalability of the Solution	<p>By implementing this system, the people can efficiently and effectively to gain knowledge about the amount of gases at anytime around them. This system can also be integrated with the android application where the users can be notified real-time.</p>