

# Project Design Phase – 1

## Proposed Solution

TEAM ID	PNT2022TMID52298
PROJECT NAME	Gas Leakage Monitoring and Alerting System

## Proposed Solution:

S. No.	Parameter	Description
<div>1.</div>	<div>Problem Statement</div>	<div><p>To detect the gas leakage to alert the user through alarms.</p><p>In human's everyday existence, the environment gives the main effect on their medical problems. The risk of firing, explosion, suffocation all depend on their actual properties such combustibility, harmfulness and so on. The number of deaths because of the blast of gas cylinders has been expanding as of late. The justification behind such explosions is because sub-standard cylinders, old valves, worn out regulators and absence of mindfulness utilizing gas cylinders add to the dangers</p></div>
<div>2.</div>	<div>Solution Description</div>	<div><p>In order to have a control over such hazardous conditions we have proposed a system that uses sensors which is capable of detecting the gases such as LPG, CO, etc.</p><p>Workers who are engaged with a busy industry work with gas either harmful or harmless needs a way to monitor their gas pipelines continuously and detect</p></div>

		<p>early if there is any leakage of gas in their surroundings so that they can work efficiently on major crises rather than worrying about monitoring or leakage of gas, this will indeed reduce the manpower of that industry and create a peaceful environment.</p>
3.	Uniqueness	<p>Even though there are many existing solutions for this problem they failed to satisfy the needs of customer. low cost, reliability ,predict hazardous situation.</p>
4.	Social Impact	<ul style="list-style-type: none"> <li>This system will create vital impact in the society because there are lot of people who are not able to detect the gas leakage prior to the fire accident.</li> <li>Our solution will be very helpful for the workers and the society which is associated or located nearby the industries</li> </ul>
5.	Business Model	<p>The main target of our solution is Industries so we have planned to visit industries and explain them about the benefits of our products. This outcome allows for a better understanding of how changes in one aspect of management can affect other aspects of management.</p>
6.	Scalability of the solution	<p>Our solution can be integrated for further future use because the solution we have provided will be lay on the basic or initial stage of any upgraded version. To develop a proposed system which include some safety factor.</p>