

Project Design Phase-I - Solution Fit

Project Title: Gas Leakage Monitoring and Alerting System

Team ID: PNT2022TMID13200

1. CUSTOMER SEGMENT(S) The levels of gases are detected, can help to prevent an explosion or can help to prevent worker injury or exposure to toxic gases. Sometimes its hard to find the leakage area.	6. CUSTOMER Proper maintenance should be Take at least once in a month. Poor stability and greater environmental impact. Complexity in installation and Network Connection.	5. AVAILABLE SOLUTIONS GSM module helps us to Get notification when there is a gas leakage. Availing network connection from a reliable Service provider. Buzzer to indicate the leakage. Quick Connectors , Test Benches, Leak Testers.
2. JOBS-TO-BE-DONE / PROBLEMS Capability of the device to with stand in harsh environment is questionable. Gas leaks can be hazardous to health as well as the environment. The purpose is to detect the gas leakage and neutralize it and prevent the explosion.	9. PROBLEM ROOT CAUSE The root cause / problem for the gas leakage is due to atomic reactions between gas molecules , material quality and etc. Some of the faults in the machines, leakage by the machines, people carelessness in workplace and life security.	7. BEHAVIOUR To determine the gas characteristics and solve the issue, they will locate the leak and identify the warning. Harsh environment is prevailing only on certain industry; thus, the frequency of the said problem is low.

<p>3. TRIGGERS</p> <p>Usage of the device in portrayed in the news. The trigger varies from the incorrect installation to the use of defective gas cylinders. In real life situation, the device has helped in saving number of individuals.</p>	<p>10. YOUR SOLUTION</p> <p>Low cost IOT based device that can be easily accessed and fixed by people. Device can be manufactured in multiple standards based on the environment.</p>	<p>8.CHANNELS of BEHAVIOUR</p> <p>Online</p> <p>Through online the industry can be continuously monitors the gas leakage</p> <p>Offline</p> <p>In offline mode the alerting system.</p>
<p>4.EMOTIONS: BEFORE / AFTER</p> <p>Gas leakage is hazardous to people and its hard for them to lead a normal life . Symptoms are fatigue , dizziness , loss of consiousness and concentration</p>		