

## Project Design Phase-I

### Problem Solution Fit

Date	20 September 2022
Team ID	PNT2022TMID15437
Project Name	Gas leakage monitoring and alerting system for industries
Mark	4 mark

Define CS, BE into CL Focus on PR, TR into BE, understand RC	<b>1. CUSTOMER SEGMENT(S)</b> <span style="float: right; background-color: #ffcc00; padding: 2px 5px;">CS</span> The industrialists who use gases for their manufacturing.	<b>6. CUSTOMER LIMITATIONS</b> <small>(E.G. BUDGET, DEVICES)</small> <span style="float: right; background-color: #ffcc00; padding: 2px 5px;">CL</span> High budget in installing other products make them to move far from modern technologies.	<b>5. AVAILABLE SOLUTIONS</b> <small>(PLUSES &amp; MINUSES)</small> <span style="float: right; background-color: #ffcc00; padding: 2px 5px;">AS</span> The monitoring and controlling of the leakage could be done by the manpower. Even though man power could reduce electricity cost and monitor properly, it may cause high risk for their life. There is also a cause of some errors due to manpower.	Explore AS, differentiate Focus on PR, TR into BE, understand RC
	<b>2. PROBLEMS / PAINS</b> <small>+ ITS FREQUENCY</small> <span style="float: right; background-color: #ffcc00; padding: 2px 5px;">PR</span> <ul style="list-style-type: none"> <li>Suffering from many losses due to gas leakage.</li> <li>Having no proper system for controlling or monitoring the leakage.</li> <li>Facing heavy budget problems in buying and installing a system for monitoring and controlling.</li> </ul>	<b>9. PROBLEM ROOT / CAUSE</b> <span style="float: right; background-color: #ffcc00; padding: 2px 5px;">RC</span> When the workers failed to monitor properly, the gas can cause high risk to their health or the properties of the industry.	<b>7. BEHAVIOR</b> <small>+ ITS INTENSITY</small> <span style="float: right; background-color: #ffcc00; padding: 2px 5px;">BE</span> <ul style="list-style-type: none"> <li>Using manpower as the source of monitoring the leakage causes high hazards.</li> <li>If the gas leaked is heavily toxic, there is a chance of causing hereditary health issues too.</li> </ul>	
Identify strong TR & EM	<b>3. TRIGGERS TO ACT</b> <span style="float: right; background-color: #99cc99; padding: 2px 5px;">TR</span> The heavy damages or higher health issues due to the toxic gases urges them to find out a solution as soon as they could possible.	<b>10. YOUR SOLUTION</b> <span style="float: right; background-color: #99cc99; padding: 2px 5px;">SL</span> Develop an efficient system & an application that can monitor and alert the workers.	<b>8. CHANNELS of BEHAVIOR</b> <span style="float: right; background-color: #99cc99; padding: 2px 5px;">CH</span> Promoting through social media. With the help of social media entrepreneurs/influencer.	Extract online & offline CH of BE
	<b>4. EMOTIONS</b> <small>BEFORE / AFTER</small> <span style="float: right; background-color: #99cc99; padding: 2px 5px;">EM</span> <b>Before:</b> The heavy losses due to the leakages made them feel of guilt due to reduced reputation of their products. <b>After:</b> Increased the level of confidence and feel secured		<b>OFFLINE</b> Through newspaper advertisements.	