

**Project Design Phase-I**  
**Problem – Solution Fit Template**

Date	30 September 2022
Team ID	PNT2022TMID54458
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	2 Marks

**Problem – Solution Fit:**

<b>Define CS, fit into CC</b>	<b>CS</b>	<b>CC</b>	<b>AS</b>	<b>Explore AS, differentiate</b>
	<p><b>3. CUSTOMER SEGMENT(S)</b></p> <p>Companies who are constructed in hazardous areas</p>	<p><b>6. CUSTOMER CONSTRAINTS</b></p> <ul style="list-style-type: none"> <li>● Spending power</li> <li>● Continuous monitoring</li> <li>● Immediate actions</li> </ul>	<p><b>5. AVAILABLE</b></p> <p>Once they find out there is a disaster going to happen , the information does not spread among the workers effectively . It may save lives but not completely</p>	

<b>Focus on J&amp;P, tap into BE, understand RC</b>	<b>J&amp;P</b>	<b>RC</b>	<b>BE</b>	<b>Focus on J&amp;P, tap into BE, understand RC</b>
	<p><b>4. JOBS-TO-BE-DONE / PROBLEMS</b></p> <p>Avoiding disaster death caused by working environment</p>	<p><b>10. PROBLEM ROOT CAUSE</b></p> <p>Explosions or sudden temperate rise and overheating malfunctioning of equipment's .</p>	<p><b>7. BEHAVIOUR</b></p> <p>Once there is a temperature rise it will immediately act . Then the precautions must be taken immediately.</p>	

Identify strong TR & EM	<p><b>3. TRIGGERS</b></p> <p>A device which will continuously monitor the workers body temperature and environment temperature makes them feel safe and taken cared.</p> <hr/> <p><b>4. EMOTIONS: BEFORE / AFTER</b></p> <p>They feel unsafe before the installation; Once they got monitored they will safe and someone is taken care over us.</p>	<p><b>10. YOUR SOLUTION</b></p> <p>This problem can be overcome by using IoT. By implementing IoT, We are able to monitor the surroundings of the workers as well as their body condition.</p>	<p><b>8. CHANNELS of BEHAVIOUR</b></p> <p><b>8.1 ONLINE</b></p> <p>There is a temperature values are continuously verified and stored in cloud.</p> <p><b>8.2 OFFLINE</b></p> <p>They are provided with a wearable device to wear while working .</p>	Identify strong TR & EM
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J&P

## 2. JOBS-TO-BE-DONE / PROBLEMS

Avoiding disaster death caused by working environment

RC

## 9. PROBLEM ROOT CAUSE

Explosions or sudden temperate rise and overheating malfunctioning of equipment's .

BE

## 7. BEHAVIOUR

Once there is a temperature rise it will immediately act . Then the precautions must be taken immediately.