


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

Date	09 October 2022
Team ID	PNT2022TMID28572
Project Name	Hazardous Area Monitoring for Industrial Plant
Maximum Marks	2 Marks

## Problem – Solution Fit:

Define CS, fit into CC	<div>1. CUSTOMER SEGMENT (S)<div>CS</div></div> <div>Employees who monitor the hazardous area in industrial plants</div>	<div>6. CUSTOMER CONSTRAINTS<div>CC</div></div> <div><div><div>➤ Spending power</div><div>➤ Continuous monitoring</div><div>➤ Immediate actions</div></div></div>	<div>5. AVAILABLE SOLUTIONS<div>AS</div></div> <div>Smart area monitoring sensors Wi-fi connectivity for sensors Pros: Successful monitoring of the area Cons: Network coverage for sensors can't be reached</div>	Explore AS differentiate
	<div>2. JOBS-TO-BE-DONE / PROBLEMS<div>J&amp;P</div></div> <div>To check and alert the humidity, Temperature, infrared radiation and Air Quality</div>	<div>9. PROBLEM ROOT CAUSE<div>RC</div></div> <div>It is important to note the employee's safety. corking in hazardous areas in industries are high risk. Therefore, this project helps the employee to know about their environment.</div>	<div>7. BEHAVIOUR<div>BE</div></div> <div>The employees have a wearable watch where they can see the required or specified details and act safely according to it</div>	
Focus on J&P, tap into BE, understand RC	<div>3. TRIGGERS<div>TR</div></div> <div>Successful execution of our solution will make even other industry to implement this solution</div>	<div>10. YOUR SOLUTION<div>SL</div></div> <div><div>We are going to monitor the area using suitable sensors in the beacons. We will connect our wearable to the beacons.</div><div>We will send updates to the online cloud from the beacon. We will be accessing</div></div>	<div>8. CHANNELS of BEHAVIOUR<div>CH</div></div> <div><div>ONLINE</div><div>All the information will be stored in the cloud. so, the employees can see the cloud storage or mobile application for referring to the details of their surroundings.</div><div>OFFLINE</div><div>Employees used to wear a watch</div></div>	Identify storage TR & EM

<p><b>4. EMOTIONS: BEFORE / AFTER</b> </p> <p>It will be easy for employees to identify or know about their environment</p>	<p>the reading from the cloud and will have a web page and a mobile application to display them. We will have an SMS service to alert abnormal readings</p>	<p>which captures information about their surroundings.</p>
--	---	---