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

| | |
|---|---|
| Date | 01 October 2022 |
| Team ID | PNT2022TMID30240 |
| Project Name | Hazardous Area Monitoring for Industrial Plant powered by IoT |
| Maximum Marks | 2 Marks |

**Problem – Solution Fit:**

Define CS, fit into CC

CS

### 3. CUSTOMER SEGMENT(S)

Companies who are constructed in hazardous areas

CC

### 6. CUSTOMER CONSTRAINTS

- Spending power
- Continuous monitoring
- Immediate actions

AS

### 5. AVAILABLE

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

Explore AS, differentiate

Focus on J&P, tap into BE, understand RC

J&P

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

Avoiding disaster death caused by working environment

RC

### 10. 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.

Focus on J&P, tap into BE, understand RC

Identify strong TR & EM

## 3. TRIGGERS

A device which will continuously monitor the workers body temperature and environment temperature makes them feel safe and taken cared.

## 4. EMOTIONS: BEFORE / AFTER

They feel unsafe before the installation; Once they got monitored they will safe and someone is taken care over us.

## 10. YOUR SOLUTION

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.

## 8. CHANNELS of BEHAVIOUR

### 8.1 ONLINE

Their is a temperature values are continuously verified and stored in cloud.

### 8.2 OFFLINE

They are provided with a wearable device to wear while working .

Identify strong TR & EM

Focus on J&P, tap into BE, understand RC

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.

effectively . It may save lives but not completely

Focus on J&P, tap into BE, understand RC