**Project Title:  Hazardous area monitoring for industrial plant Project Design Phase-I** - **Solution Fit Template Team ID:** PNT2022TMID39426

**Powered by IoT**

**Explore AS, differentiate**

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

**Deﬁne CS, ﬁt into CC**

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

**AS**

**5. AVAILABLE SOLUTIONS**

**CONSTRAINTS**

**CC**

**6. CUSTOMER llLLLLLIMICONSTRAINTS**

**CS**

1. **CUSTOMER SEGMENT(S)**

i.e. working parents of 0-5 y.o. kids

* Unsafe workplace and equipments
* Lack of available devices
* Spending power and network connections in

the restricted power consumption areas.

* Industrial worker

## **Provide proper personal protective equipment**

## **Select the best team for specialist tasks**

## **Turn data into information, information into insight**

## **Mark walkways and roadways clearly**

## Focus on the equipment frequently used in industrial area

**BE**

**7. BEHAVIOUR**

**RC**

**9. PROBLEM ROOT CAUSE**

**J&P**

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

* Toxic gases leakages
* Overheating in machines
* Electrical exposure
* Accidents due to improper operating conditions and faults in system.
* Machine overheating due to frequent starts and stops, poor power

condition and effective service factors.

* Fire accidents due to spillages of flammable and combustible materials,

electrical short Circuiting and overheating of bare surfaces

* It intimate alert message to safety control board of industry.
* To protect workers during nonroutine operations and emergencies.

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| **Identify strong TR & EM** | **3. TRIGGERS TR**  By controlling the hazard to the minimal level, accidents in the industry can be avoided. | **10. YOUR SOLUTION**   * In industrial areas fire accidents can prevent by fire detection using temperature, gas and flame sensors with automatic water sprinkler. * Harmful or toxic gas leakages can identify by monitoring harmful gases and intimate alert message to safety control board of industry. * Machine overheating can reduce by cooling machine with compressor, control the humidity and temperature instantaneously in order to have stable, controllable atmospheric conditions. SL | 1. **CHANNELS of BEHAVIOUR CH**   **ONLINE**  Using Mobile applications, To pass the alert messages through notifications when problems occurs.    **OFFLINE**   * Managers, supervisors, and employees are trained to understand and deal with worksite hazards. * Management Commitment and Employee Involvement * Using alarm sound when accident or problem occurs. | **Extract online & ofﬂine CH of BE** |
| **4. EMOTIONS: BEFORE / AFTER EM**   * They feel that they don't have safety dresses,shoes, gloves * They feel poor safety measures * They feel a safe life is required * Ensuring safe practices are employed working in confined spaces or Working at heights. * Working alone may cause injuries from tools and equipments. |
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