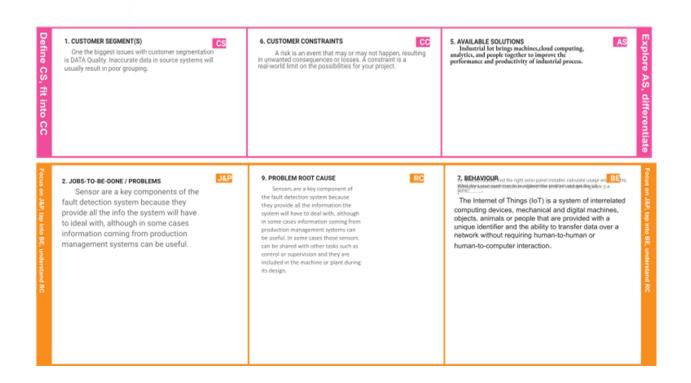**Project Design Phase-I - Solution Fit Template**
Project Title: Hazardous Area Monitoring for Industrial plant power by Iot
Team ID: PNT2022TMID50497

Define CS, fit into CC	**1. CUSTOMER SEGMENT(S)** CS	**6. CUSTOMER CONSTRAINTS** CC	**5. AVAILABLE SOLUTIONS** AS	Explore AS, differentiate
	One the biggest issues with customer segmentation is DATA Quality. Inaccurate data in source systems will usually result in poor grouping.	A risk is an event that may or may not happen, resulting in unwanted consequences or losses. A constraint is a real-world limit on the possibilities for your project.	Industrial Iot brings machines,cloud computing, analytics, and people together to improve the performance and productivity of industrial process.	

Focus on J&P, tap into BE, understand RC	**2. JOBS-TO-BE-DONE / PROBLEMS** J&P	**9. PROBLEM ROOT CAUSE** RC	**7. BEHAVIOUR** the right solar panel installer, calculate usage and BE ...	Focus on J&P, tap into BE, understand RC
	Sensor are a key components of the fault detection system because they provide all the info the system will have to ideal with, although in some cases information coming from production management systems can be useful.	Sensors are a key component of the fault detection system because they provide all the information the system will have to deal with, although in some cases information coming from production management systems can be useful. In some cases those sensors can be shared with other tasks such as control or supervision and they are included in the machine or plant during its design.	The Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with a unique identifier and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.	

3. TRIGGERS TR	**10. YOUR SOLUTION** SL	**8. CHANNELS of BEHAVIOUR** CH
A trigger can be defined to automate events (notifications or actions) and can eliminate the need to manually monitor subscriptions.	Automated factories and processes are too expensive to be rebuilt for every modification and design change – so they have to be highly configurable and flexible. To successfully reconfigure an entire production line or process requires direct access to most of its control elements – switches, valves, motors and drives – down to a fine level of detail. The vision of fully automated factories has already existed for some time now: customers order online, with electronic transactions that negotiate batch size (in some cases as low as one), price, size and color; intelligent robots and sophisticated machines smoothly and rapidly fabricate a variety of customized products on demand.	**8.1 ONLINE** Raspberry Pi 3 Temperature Sensor- DSI 8B20 **8.2 OFFLINE** Arduino UNO Board, Ultrasonic Sensor HC-SR04