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

**Project Title:** Real-Time River Water Quality Monitoring And Control System **Team ID: PNT2022TMID09930**

**Explore AS, differentiate**

**Deﬁne CS, ﬁt into CC**

Even though the individual notification to each people could not be sent the system will still notify the corporation and they can further notify the people.

**AS**

**5. AVAILABLE SOLUTIONS**

Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have?

What constraints prevent your customers from taking action or limit their choices of solutions

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

**1. CUSTOMER SEGMENT(S)**

Who is your customer?

**Explore AS, differentiate**

**Define CS, fit into CC**

Only one system is used for specific area and so people may find it hard to recover if any fault occurs, as we used sensors to detect turbidity and pH.

According to our problem statement people living in rural areas and so, who use river water.

**BE**

**7. BEHAVIOUR**

What does your customer do to address the problem and get the job done? i.e. directly related: ﬁnd the right solar panel installer, calculate usage and beneﬁts; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)

**RC**

**9. PROBLEM ROOT CAUSE**

What is the real reason that this problem exists? What is the back story behind the need to do this job?

**J&P**

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

Which jobs-to-be-done (or problems) do you address for your

customers?

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

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

As we know apparatus for monitoring the pH and the turbidity are bit costly and our system needs more than one apparatus to work, the apparatus are used periodically to check the quality of the water and might need to be replaced frequently.

The river water quality monitoring system checks the turbidity and Ph of the water periodically and notifies the public when the quality of the water varies.

The customer could use the user guide provided to overcome the problem or else they can report and contact the corporation , they will take care of the problem.

**CH**

**8. CHANNELS of BEHAVIOUR**

**8.1 ONLINE**

What kind of actions do customers take online? Extract online channels from #7

**8.2 OFFLINE**

What kind of actions do customers take ofﬂine? Extract ofﬂine channels from #7 and use them for customer development.

**SL**

**10. YOUR SOLUTION**

If you are working on an existing business, write down your current solution ﬁrst, ﬁll in the canvas, and check how much it ﬁts reality.

If you are working on a new business proposition, then keep it blank until you ﬁll in the canvas and come up with a solution that ﬁts within customer limitations, solves a problem and matches customer behaviour.

**TR**

**3. TRIGGERS**

What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efﬁcient solution in the news.

**Identify strong TR & EM**

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For Example :if certain area people start using this quality monitoring system and so they are staying healthy without any water borne disease, it will trigger the other area people start using it.

The customers might fell hard first, we will guide them with a user guide and they will find it easy to use.

Our solution is to check the quality of the river water periodically using two sensors. the parameters like turbidity and pH of the river water is monitored and alerts when any changes in parameters occurs.

If it is in offline mode ,the customers can directly reach the corporation office and report the problem.

**EM**

**4. EMOTIONS: BEFORE / AFTER**

How do customers feel when they face a problem or a job and afterwards?

i.e., lost, insecure > conﬁdent, in control - use it in your communication strategy & design