Project title :Real time river water quality management and control system

Project Design Phase -I

Problem -solution fit

**Team ID:** PNT2022TMID28778

or need to get the job done? What have they tried in the past? What pros & cons do these solutions have ?

Quality checking field officer will get samples physically and these samples are sent to laboratory for testing

Pros: Results will be accurate

Cons: It will more time for implemention and the process will take huge time

**AS**

**5. AVAILABLE SOLUTIONS**

Which solutions are available to the customers when they face the problem

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

of solutions?

\*High investment needed for initial installation

\*Less awareness in people about it’s applications

\*Network issues in under developed areas

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

**1. CUSTOMER SEGMENT(S)**

Who is your customer?

Government employee

**Explore AS, differentiate**

**Define CS, fit into CC**

Used water filters for filtration of water for drinking purpose.

Tried to complaint about water quality in municipal corporation

**BE**

**7. BEHAVIOUR**

What does your customer do to address the problem and get the job done?

**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?

The main cause of this problem is due to disposal of wastes int river water which is leading to water pollution.

**J&P**

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

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.

To design a system using IOT for controlling and monitoring of river water quality and produce real-time information

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

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

**Identify strong TR & EM**

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| **Identify strong TR & EM** | **3. TRIGGERS TR**  What triggers customers to act?  Need for quality water, improved technology which can useful in many real-time applications | **10. YOUR SOLUTION SL**  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.  Using Real time monitoring and controlling system to allow instant data intake and using sensors ,hardware components for data input and providing alert message to user mobile through web application | 1. **CHANNELS of BEHAVIOUR CH**     1. **ONLINE**   What kind of actions do customers take online? Extract online channels from #7   * 1. **OFFLINE**   What kind of actions do customers take ofﬂine? Extract ofﬂine channels from #7 and use them for customer development. |  |
| **4. EMOTIONS: BEFORE / AFTER EM**  How do customers feel when they face a problem or a job and afterwards?  Before: facing many health issues due to consumption of unsafe drinking water from rivers  After: can have access to pure drinking water with advanced system for controlling and monitoring river water quality |

**Identify strong TR & EM**