**Project Title:** Real-Time River Water Quality Monitoring and Control System **Project Design Phase-I** - **Solution Fit Template Team ID:** PNT2022TMID42038

# 1. CUSTOMER SEGMENT(S)

**Define CS, fit into CC**

Who is your customer?

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

# 6. CUSTOMER CONSľRAINľS

What constíaints píevent youí customeís fíom taking action oí limit theií **CC**

**CS**

choices

# 5. AVAILABLE SOLUTIONS

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

**Explore AS, differentiate**

**AS**

of solutions? i.e. spending poweí, budget, no cash, netwoík connection, available devices.

oí need to get the job done? What have they tíied in the past? What píos & cons do these solutions have? i.e. pen and papeí is an alteínative to digital

**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.

**J&P**

**9. PROBLEM ROOľ CAUSE**

What is the íeal íeason that this píoblem exists? What is the back stoíy behind the need to do this job?

i.e. customeís have to do it because of the change in íegulations.

**RC**

**7. BEHAVIOUR BE**

What does youí customeí do to addíess the píoblem and get the job done?

i.e. diíectly íelated: ﬁnd the íight solaí panel installeí, calculate usage and beneﬁts; indiíectly associated: customeís spend fíee time on volunteeíing woík (i.e. Gíeenpeace)

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

We know that the sensor are expensive and the system needs more than one sensors to work , these sensors are used periodically to check the quality of water and if any problem, need to be replace frequently.

The river water quality monitoring system that checks periodically, the dust particles, temperature and PH level and gave notifies for the public when the water quality varies

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

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

People living in rural areas near to the river , who uses river water.

Water quality monitoring system is used for identify the water pollution on specific area. People may find it hard to recover if any fault occurs, this system prevent people from water pollution.

Individual notification to each people could be sent , it is not possible. this system will still notify the corporation and they can further notify the people to aware.

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|  | **3. ľRIGGERS ľR**  What triggers customers to act? i.e. seeing their neighbour installing  solar panels, reading about a more efﬁcient solution in the news.  River water quality analysis work by Checking the river water quality for providing clean drinking water for the people, farming, promoting aquaculture, and other industries. It is the best replacement for checking water quality in laboratories.  The best quality is that it is user-friendly. | **10. YOUR SOLUľION 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.  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.  This technology can automaticallymonitor the water quality. The water detection sensor has a uniqueadvantage. It consumes less time than a manual method for checking polluted levels. Information is sent at in faster rate to authorities and action can be taken immediately affected rate ofpollution is reduced | 1. **CHANNELS of BEHAVIOUR CH**    1. **ONLINE**   What kind of actions do customeís take online? Extíact online channels fíom 7   * 1. **OÏÏLINE**   What kind of actions do customers take ofﬂine? Extract ofﬂine channels from #7 and  use them for customer development.  ONLINE:   * + - Public may provide review and rating for thesystem.     - The software used should be properly studiedby everyone to operate it.     - The software and hardware connectionsshould be given properly |  |
| **4. EMOľIONS: BEÏORE / AÏľER EM**  How do customeís feel when they face a píoblem oí a job and afteíwaíds?  i.e. lost, insecure > conﬁdent, in control - use it in your communication strategy & design.  BEFORE:   * + Before implementing this project people feel it was difficult to enjoy boating, fishing, and provision safe drinking.   + They also face major problems in the development of industrial, hydroelectric, and agricultural water requirements.   AFTER:   * + After implementing this project people can be able to face all these above-mentioned problems easily. |

