Project Title: Real-Time River Water Quality Monitoring and Control System **Project Design Phase-I - Solution Fit Template** **Team ID:** PNT2022TMID15981

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)

Who is your customer?
i.e. working parents of 0-5 y.o. kids

CS

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

6. CUSTOMER CONSTRAINTS

What constraints prevent your customers from taking action or limit their choices
of solutions? i.e. spending power, budget, no cash, network connection, available devices.

CC

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.

5. AVAILABLE SOLUTIONS

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

AS

or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital

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.

Explore AS, differentiate

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

2. JOBS-TO-BE-DONE / PROBLEMS

J&P

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

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

9. PROBLEM ROOT CAUSE

RC

What is the real reason that this problem exists? What is the back story behind the need to do this job?
i.e. customers have to do it because of the change in regulations.

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.

7. BEHAVIOUR

BE

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)

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.

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

3. TRIGGERS

TR

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.

4. EMOTIONS: BEFORE / AFTER

EM

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.

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.

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.
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

8. CHANNELS of BEHAVIOUR

CH

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.

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