Project Design Phase-1(Solution Fit Template)

Project Title: REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

TEAM ID:PNT2022TMID52011

Define CS, fit into CC

1. CUSTOMER SEGMENT(S) CS

Our direct customer is the government who funds for our project and people are the indirect customer who consumes those valuable water resources.

6. CUSTOMER CONSTRAINTS CC

The government faces constraints related to financial since it needs to fund many projects, it's a long process, requires active participation of common people.

5. AVAILABLE SOLUTIONS AS

Conductivity, salinity and TDS monitoring of water provides aa good measure of quality checking.though it gives a satisfied measuring of qualitive water it's not enough when it comes for drinking purpose.

Explore AS, differentiat

Focus on J&P, tap into BE,

2. JOBS-TO-BE-DONE / PROBLEMS

Problems:

- Lack of pure and hygiene water
- Inappropriate disposal of industrial and E-waste.
- Not having knowledge on causes off water pollution.

9. PROBLEM ROOT CAUSE RC

Lack of awareness among the people about the issues faced due to the dumping of domestic and industrial waste and E-waste at the river banks.

7. BEHAVIOUR BE

Creating awareness among the people about the diseases and issues caused due to river water pollution and strict prohibition of disposal of industrial waste.

Focus on J&P, tap into BE,

3. TRIGGERS TR

- Creating awareness sessions
- Educating the people about the importance of river water and its benefits
- Hygiene environment promote them to keep the environment clean.

10. YOUR SOLUTION

In our solution we are using three different sensors used to detect the Ph value, temperature value turbidity and the dissolved solids in water in addition with the calculation of water quality index, thus enhancing its quality measures. SL

8. CHANNELS of BEHAVIOUR CH

Online: Easily monitoring the water quality from the sensor value and alert is sent to the authority.

Offline: When received an alert information the particular place where the quality information misleads the control actions should be taken to prevent it.

	4. EMOTIONS: BEFORE / AFTER EM **Before:** • Unhappy about their local environment • Longing for an organization or government to clean the river water **After:** • Happy about the initiation made by the government • Feel safe to drink the monitored river water.			