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

1. CUSTOMER SEGMENT(S)

CS

- Localities.
- Dam safety organizer.
- Water consumers.

6. CUSTOMER CONSTRAINTS

- CC
- Wifi modulus are used.
- Sensors are used.
- Low power consumption
- Clouds for storage purpose.

5. AVAILABLE SOLUTIONS

AS

Explore AS,

differentiate

- In this technique several sensors is employed to measuring physical and chemical parameters of the water.
- Manual system with a monotonous process and is very time consuming

2. JOBS-TO-BE-DONE / PROBLEMS

- To identify any dust particles present in the water.
- To identify PH level of the water can be monitored.
- To measure Water temperature.

9. PROBLEM ROOT CAUSE

_

RC

- Lack of training for data management and statistical tools.
- Lack of software to analyse the data for trend analyses and data validation.

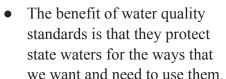
7. BEHAVIOUR

- To recognize the water quality.check ph level,water temperature,parameters.
- The water quality can be maintainable.

ne water

BE

3. TRIGGERS



TR **10. YOUR SOLUTION**



System must be low-cost, most efficient as

well as processing, sending and viewing

To collect data from the cloud and develop a web application to present the condition of water and to recommend according to condition it will

data on cloud through wifi modules.

alert or not.





• To intimate the people through message. If the water condition is good or bad.

8.2 OFFLINE

- It processes the pH levels, water temperature, and parameters of the
- It includes a number of sensors to test the water's quality based on factors turbidity, and arduino.

4. EMOTIONS: BEFORE / AFTER



BEFORE: No knowledge about water quality, unaware of health issues.

AFTER:knowledge about water quality,awareness about health issues.

- water.
- including pH, temperature conductivity,