



2. JOBS-TO-BE-DONE / PROBLEMS

- The water quality parameters data are obtained using the sensors and the data are stored and monitored continuously
- If the water is polluted an sms alert will be sent to the specified customer

J&P

9. PROBLEM ROOT CAUSE

RC

Due to industrial waste and other pollutants such as plastics, nitrates, bacteria, Fertilizers etc. The water is polluted very much so it is difficult to convert the river water into drinking water.

7. BEHAVIOUR

BE

If the water is polluted very much install the water quality monitoring system which is proposed in this project so that the customer gets the details about temperature, turbidity and pH of the water and with the help of those details necessary actions can be taken to improve the quality of the water.

Define CS, fit into CC

1. CUSTOMER SEGMENT(S)

CS

- Water quality checkers
- Enducers (public) , organizations responsible for supplying drinking water are the customer's

6. CUSTOMER CONSTRAINTS

CC

- Budget is the main factor which limits the customers in taking actions . The proposed project is cost effective .
- Man power is the another factor .The proposed system needs no man power

5. AVAILABLE SOLUTIONS

The current water quality monitoring system is a manual system with a monotonous process and is very time consuming

Explore AS, differentiate

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| <div>3. TRIGGERS</div> <div>TR</div> <div><ul style="list-style-type: none">It reduces the time required to calculate the water qualityIt helps in reducing the water pollution</div> | <div>10. YOUR SOLUTION</div> <div>This project proposes a sensor-based water quality monitoring system. Using pH sensor, Turbidity sensor, and temperature sensor. The pH, turbidity and temperature of the water can be measured . If the acquired value is above the threshold value automated warning SMS alert will be sent to the specified customer.</div> | <div>8. CHANNELS of BEHAVIOUR</div> <div>CH</div> <div><div>ONLINE</div><div>Water quality details will be updated in website with respect to time.</div></div> <div><div>OFFLINE</div><div>All the water quality details will be sent through SMS by using these details necessary cleaning actions can be taken.</div></div> |
| <div>4. EMOTIONS: BEFORE / AFTER</div> <div>EM</div> <div>Before the implementation of this project the water quality parameters are calculated manually which needs more time and man power which makes the customers feel frustrated. After the implementation of this project The work pressure is reduced whic 1 makes the Customers feel happy .</div> | | |