Project Design Phase-1

Solution Kit

| TEAM ID | PNT2022TMID13452 |
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| PROJECT NAME | Real-Time River Water Monitoring and Control System |

In order to ensure the safe supply of the drinking water the quality needs to be monitor in real time. In this paper we present a design and development of a low cost system for real time monitoring of the water quality in IOT(internet of things). The system consist of several sensors is used to measuring physical and chemical parameters of the water. The parameters such as temperature, PH, turbidity, flow sensor of the water can be measured. The measured values from the sensors can be processed by the core controller. The Arduino model can be used as a core controller. Finally, the sensor data can be viewed on internet using WI-FI systemIn this proposed block diagram consist of several sensors (temperature, pH, turbidity, flow) is connected to core controller. The core controller are accessing the sensor values and processing them to transfer the data through internet. Ardunio is used as a core controller. The sensor data can be viewed on the internet wi-fi system.

J&P

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 evaluable to the customers when

ir need to get the job done? What have they tried in the past? What pros 6 come do these solutions have? Le. pen and paper are afternative to dotte

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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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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

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

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

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What does your customer do to address the problem and set the lep board. Cell directly related the control to the control to

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.