

Project Design Phase-I Proposed Solution Template

Date	08 October 2022
Team ID	PNT2022TMID38365
Project Name	Real Time River Water Quality Monitoring And Control System

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	River water is the major source of water in villages or cities. But most the river water is get polluted due to the lot of reasons like industrial wastages, sewage water, etc. The usage of this water is not possible. Even though if we use this kind of water it cause many health issues. We need to find the solution for it.
2.	Idea / Solution description	To avoid this kind of vulnerabilities we want to measure various physical and chemical water parameters which are temperature, pH level and turbidity can be measured by this proposed system. Sensors' circuits are connected to the microprocessor and the probes of the turbidity, pH, and temperature sensors placed inside the water.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> * If any imperfection found in the water for the above threshold value, automated warning SMS will be sent to the authorities. * The uniqueness of our proposed paper is to obtain the water monitoring system with high frequency, high mobility and low powered.
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> * Everyday peoples and animals will drink only the pure water. * The risk of water-borne diseases can be reduced. * Good environment surrounding the river. * The good quality river water is mainly used for farmers.
5.	Business Model (Revenue Model)	By using this system we can find the quality of water because river water is the basic raw material for food and beverage industries.

6.	Scalability of the Solution	<ul style="list-style-type: none"> * Water quality data with a high spatial and temporal resolution for thousands of lakes at a time. * It supports the evaluation of environmental problems and potential health risks through the analysis of changes in water quality and the detection of harmful algal blooms.
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