

Project Design Phase-I Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID21819
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)	Most of the water is affected by the industrial wastes containing chemicals, medical wastes and by washing vehicles the engine oil is mix with the river water.
2.	Idea / Solution description	<ul style="list-style-type: none"> * To measure various chemical and physical properties of water like pH, temperature and particle density of water using sensors. * Dispose the industrial waste, toxic chemicals and medical waste properly.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> * If the acquired value is above the threshold value automated warning SMS will be sent to the agent. * 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.