

Project Design Phase-I
Proposed Solution Template

Date	28 September 2022
Team ID	PNT2022TMID51098
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In order to manage the algal bloom and keep an eye on water quality indicators like ph, turbidity and dissolved solvents using available sensors.
2.	Idea / Solution description	1.Utilising Sensors and Arduino to monitor water parameters and ultrasonic frequency to control those parameters. 2.To collect data from numerous sensor nodes and wirelessly transmit it to the base station. 3.To send a SMS to the authorized person.
3.	Novelty / Uniqueness	1.The sensor will transmit an alert message to the neighbouring control room if the water is contaminated. 2.When an employee isn't present ,alert message is delivered to his mobile phone.
4.	Social Impact / Customer Satisfaction	1.Poor drinking water quality is the root cause of more than 50 different diseases, accounting for 80% of illnesses and 50% of child fatalities. 2.People come to know about the quality of water.
5.	Business Model (Revenue Model)	1.We can sell our project to the public sector through advertising. 2.Through social media, we can spread advertising.
6.	Scalability of the Solution	1.Operating this Model is a pretty simple process. 2.Both farming and drinking can be done with it.