

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID20521
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Due to the fast growing industries which located near the rivers affects supply of safe drinking water is a challenge for the every city authority. Water can be polluted any time.. Still in India most of the people use simple water purifier that is not enough to get surety of pure water. Sometimes the water has dangerous particles or chemical mixed and general purpose water purifier cannot purify that. And it's impossible to check the quality of water manually in every time. So an automatic real-time monitoring system is required to monitor the health of the water . So it can warn us automatically if there is any problem with the reserved water. And we can check the quality of the water anytime and from anywhere
2.	Idea / Solution description	It is planned to interface temperature sensor,ultrasonic sensor,turbidity sensor,ph sensor and buzzer with Arduino and push the values to the think speak website cloud.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> • 24/7 Monitoring • Portable • User Friendly
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> • Low cost • Can be monitored anytime and anywhere • Necessary for customers
5.	Business Model (Revenue Model)	It not only used for rivers but also in dam,pond ,home water tank and other water areas.
6.	Scalability of the Solution	provides automation and precise measurement of the river levels so that you can obtain results with accuracy