

Project Design Phase-I
Proposed Solution Template

Date	30 September 2022
Team ID	PNT2022TMID10965
Project Name	Real Time River Water Quality Monitoring and Control System
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	“Real Time River Water Quality Monitoring and Control System” is an attempt to develop a general sensor and data model for monitoring water quality. The parameters for determining the quality of water are the pH level, turbidity and temperature.
2.	Idea / Solution description	Real-time system was proposed to measure river water quality. With this system, real-time data can be collected from the active site and analysed at a remote server.
3.	Novelty / Uniqueness	The uniqueness of our proposed project is to obtain the water monitoring system with high frequency, high mobility, and low powered.
4.	Social Impact / Customer Satisfaction	It socially help water system managers identify threats to surface water earlier, make more fully informed decisions affecting the systems and the public they serve, and comply with ever-changing regulatory water quality monitoring requirements at federal, state and local levels.
5.	Business Model (Revenue Model)	It helps businesses, as river water is a primary source to drive the economic engines of irrigation and hydropower.
6.	Scalability of the Solution	It has a good scalability because it prevents from infection and provides a healthy life.