

Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID38593
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 the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Due to the fast growing urbanization, the supply of safe drinking water is a challenge for every city authority. Water can be polluted any time.
2.	Idea / Solution description	To measure water parameters such as pH, dissolved oxygen, turbidity, conductivity, etc. using available sensors at a remote place
3.	Novelty / Uniqueness	Develop of novel small form factor, low cost sensing technologies. Different methods of water quality monitoring and an efficient IoT based method for water quality monitoring .
4.	Social Impact / Customer Satisfaction	It socially helps water system managers identify threats to surface water earlier, make more fully informed decisions affecting the systems and the public .
5.	Business Model (Revenue Model)	The River Water monitoring and control system is used to monitor the water purity and pH level and to control the water pollution
6.	Scalability of the Solution	The Sensor architecture for crisis management, described in this project, provides active monitoring of measuring parameters and timely responses in cases of environmental disasters.