

**Project Design Phase-I**  
**Proposed Solution Template**

Date	23 September 2022
Team ID	PNT2022TMID50000
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)	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 reserved in our water tank of the society or apartment.	
2.	Idea / Solution description	Measure water parameter as PH sensor using A remote place. To assemble data from various sensor. To assemble data from various sensor nodes and send to the base station by the wireless channel. To send sms an authorized person routinely when water quality detected, so the necessary action can be taken.	
3.	Novelty / Uniqueness	To develop a system for continues monitoring of river water quality at remote places using wireless sensor network with low power consumption.	
4.	Social Impact / Customer Satisfaction	Appeared to be a better solution as reliable, scalability, speed and persistence can be provided.	
5.	Business Model (Revenue Model)	We can provide the consumers.	
6.	Scalability of the Solution	Performance and speed do not slow down . we can check the quality of the water anytime and from anywhere. By keeping this mind we designed this system especially for residential areas.	

