

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

Date	28 September 2022
Team ID	PNT2022TMID48183
Project Name	Project - IOT Based 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)	IOT Based Real Time River Water Quality Monitoring and Control System
2.	Idea / Solution description	1.To monitor the quality of water using sensors like temperature, potentiometer(pH), turbidity, salinity and so on. 2.Collecting those data and storing it in cloud and perform analyse to check if the water is contaminated or not for drinking. 3.If the water is contaminated an alert is made to the user/ local authority through SMS or can be viewed through web application anytime.
3.	Novelty / Uniqueness	1.Based on the collected data prediction is made whether the water can be used for cultivation of specific crops and suitable for the aquatic animals.
4.	Social Impact / Customer Satisfaction	Algal growth, fertilizers, pesticides cause river pollution which can impact all living beings. Better monitoring and control measures can impact health and vegetation massively.
5.	Business Model (Revenue Model)	Service based product is developed to serve the local people to know the quality of water before consuming it or using it for any purpose. This prevents health issues or at most loss of living being.
6.	Scalability of the Solution	Developing the product as both web and mobile application it is portable, and data can be accessed from anywhere anytime.

		provide a real-time monitoring and a feasible solution for remote or distant places where water quality laboratory is not present.
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