

Project Design Phase-I Proposed Solution

Date	1 November 2022
Team ID	PNT2022TMID12872
Project Name	Project - 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 pollution of Water Resources is a major threat to human life. Some chemical are present in water causes diseases to human and animals. There is a need to continuously monitor the crucial parameters in Water Resources.
2.	Idea / Solution description	Real time water quality monitoring helps authorities to receive data from remote location and take necessary actions by using remote monitoring and IOT technology.
3.	Novelty / Uniqueness	The system would be able to monitor various parameters of water sources such as Temperature, flow rate and most importantly pH.
4.	Social Impact / Customer Satisfaction	Instead of manual control or monitoring, customers would be able to access the data even if they are not present at the resource.
5.	Business Model (Revenue Model)	This System would be able to provide a time as well as cost efficient way of monitoring rivers(Water Resources).
6.	Scalability of the Solution	The Project is completely user friendly, where the users can access data from their mobile phones and there is a provision for storing those datas in cloud storage for future study purposes.