

Project Design Phase-I
Proposed Solution

Date	15 October 2022
Team ID	PNT2022TMID00516
Project Name	REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	The lab procedures get delayed which makes the process monotonous and affects the result that cannot be obtained in real time.
2.	Idea / Solution description	This project proposes a system for continuous monitoring of river water quality at remote places using Internet of Things (IoT) technology with high detection accuracy. An SMS will be sent to an authorized person routinely when water quality detected does not match the present standards.
3.	Novelty / Uniqueness	The uniqueness of our proposed paper is to obtain the water monitoring system with high frequency, high mobility, and low powered. The clients can get ongoing water quality information from far away.
4.	Social Impact / Customer Satisfaction	This will help people to become conscious against contaminated water as well as to stop polluting the water.
5.	Business Model (Revenue Model)	This system developed using IoT technology has huge potential since it helps in detecting the contaminants.
6.	Scalability of the Solution	The main advantage is that IoT devices have capability to stream the array of collected data wirelessly to the remote Data Aggregator Server in the cloud. Thus, the Data Aggregator Server can retrieve the analysis result and transfer the result to the applications running on different gadgets in the cloud.