Project Design Phase-I
Proposed Solution

Date	23 September 2022
Team ID	PNT2022TMID29821
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)	Pollution control. Water quality enhancement.
2.	Idea / Solution description	The device comprises of a micro controller interfaced with pH and turbidity sensors for measuring the pH and turbidity level of the water. The device is connected with the GSM module which notifies the water quality parameters as message to the board members. A Cloud storage is available for storing the collected data. A web application is created that is connected with cloud storage. Users can access the web application to check the water status of an area.
3.	Novelty / Uniqueness	The proposed solution comprises of a GSM module to notify the water quality parameters as message, which is the unique feature of the proposed solution.
4.	Social Impact / Customer Satisfaction	River pollution can impact all living organisms. Better monitoring and controlling measures can impact vegetation, health.

5.	Business Model (Revenue Model)	Revenue can be generated by selling the whole kit or they can sell the individual components as a replacement of damaged products. The revenue can also be obtained by the monitoring system as service where they can inspect the system, for that service they can charge the customers.
6.	Scalability of the Solution	Whatever may be the water quality either good or bad the device does not fail to give the result correctly