Project Design Phase-I
Proposed Solution

Date	19 October 2022
Team ID	PNT2022TMID30948
Project Name	Project – Real-Time River Water Quality Monitoring And Control System
Maximum Marks	2 Marks

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Water pollution is one of the biggest fears for the green globalization .In order to ensure the safe supply of the drinking water the quality needs to be monitor in real time.
2.	Idea / Solution description	*By developing the REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM, the system sense and sends the random value of water bodies such as pH, turbidity and temperature to the IoT platform. And also the sensor values are viewed in the web application. *Notifies the admin if the random values cross the threshold values.
3.	Novelty / Uniqueness	*Error free data access management. *Statistical Process Control(SPC) facility, tomake the application user friendly.
4.	Social Impact / Customer Satisfaction	It is estimated that around 70% of surface water in India is unfit for consumption. By this system, the method of monitoring and controlling decreases this percentage level and helps the people to drink healthy water.
5.	Business Model (Revenue Model)	*Cost effective equipped system. *The system budgets around the level, which makes the people to afford. *Application installation is also free of cost and flexible to user.
6.	Scalability of the Solution	The proposed system has less complexity and high performance by collecting and managing the data with the help of IoT and cloud services.