Project Design Phase-I
Proposed Solution

Date	24 September 2022
Team ID	PNT2022TMID35857
Project Name	Project – 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)	Due to the fast growing urbanization supply of safe drinking water is a challenge for the every city authority. Water can be polluted any time. So the water we reserved in the water tank at our roof top or basement in our society or apartment may not be safe.
2.	Idea / Solution description	An automatic real-time monitoring system is required to monitor the health of the water reserved in our water tank of the society or apartment. So it can warn us automatically if there is any problem with the reserved water.
3.	Novelty / Uniqueness	We can check the quality of the water anytime and from anywhere.
4.	Social Impact / Customer Satisfaction	The main aim is to develop a system for continuous monitoring of river water quality at remote places using wireless sensor networks with low power consumption, low-cost and high detection accuracy.
5.	Business Model (Revenue Model)	The Proposed IOT can be a good profitable product since the some of the services like Cloud Storage,Web Application involves some subscription fee inorder to access the services.
6.	Scalability of the Solution	The proposed solution involves collection of data from River and the collected data can be monitored from anywhere and at anytime using the help of IOT Technology. The collected data is constantly analyzed and if there

		is any deviation from the normal range of values then immediate alert is send without any delay.