VELAMMAL ENGINNERING COLLEGE

(An autonomous institution)
CHENNAI-600066

REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM USING IoT

Submitted by

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Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID23523
Project Name	Real time river water quality monitoring and control system using IOT
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)	• In today's world, water is highly polluted. • It is hazardous for aquatic life and people who consume it. • To avoid this problem, we come up with this quality monitoring and control system.
2.	Idea / Solution description	• So for this problem we have come up with a solution of monitoring the temperature, checking the PH level of water, turbidity of water and altering the people through message or buzzer whether to consume it or not.
3.	Novelty / Uniqueness	The approach of our system includes : • Temperature parameters measurement • Smart beacon devices to display the quality of river water • An application to measure the PH level • GSM module to alert the society
4.	Social Impact / CustomerSatisfaction	• In our project, the Internet of Things (IOT) is used to collect data and communicate through the internet. • We hope that our project will be beneficialfor the people across the world, saving lives from air and water borne diseases.

5.	Business Model (RevenueModel)	• Our proposed system includes various measuring technologies like GSM module. • The product will be assigned an initial margin price and price will be updated as we add new features to it.
6.	Scalability of the Solution	• Including sensors to monitor temperature and turbidity of river water to avoid negative effects on aquatic life and people who consume river water.