**Project Design Phase-I Proposed Solution Template**

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| Date | 28 September 2022 |
| Team ID | PNT2022TMID30374 |
| Project Name | Real-Time River Water Quality Monitoring and Control System |
| Maximum Marks | 2 Marks |

**Proposed Solution:**

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | In order to manage the algal bloom and keep an eye on water quality indicators like ph, turbidity and dissolved solvents using available sensors. |
| 2. | Idea / Solution description | * Utilising Sensors and Arduino to monitor water parameters and ultrasonic frequency to control those parameters. * To collect data from numerous sensor nodes and wirelessly transmit it to the base station. * To send a SMS to the authorized person. |
| 3. | Novelty / Uniqueness | * The sensor will transmit an alert message to the neighbouring control room if the water is contaminated. * When an employee isn’t present ,alert message is delivered to his mobile phone. |
| 4. | Social Impact / Customer Satisfaction | * Poor drinking water quality is the root cause of more than 50 different diseases, accounting for 80% of illnesses and 50% of child fatalities. * People come to know about the quality of water. |
| 5. | Business Model (Revenue Model) | * We can sell our project to the public sector through advertising. * Through social media, we can spread advertising. |