**Project Design Phase-I**

**Proposed Solution**

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| Date | 21 October 2022 |
| Team ID | PNT2022TMID03606 |
| Project Name | REAL-TIME RIVER WATER QUALITY  MONITORING AND CONTROL SYSTEM |

**Proposed Solution :**

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | The lab procedures get delayed which makes the process monotonous and affects the result that cannot be obtained in real time. |
| 2. | Idea / Solution description | This project proposes a system for continuous monitoring of river water quality at remote places using Internet of Things (IoT) technology with high detection accuracy. An SMS will be sent to an authorized person routinely when water quality detected does not match the present standards. |
| 3. | Novelty / Uniqueness | The uniqueness of our proposed paper is to obtain the water monitoring system with high frequency, high mobility, and low powered. The clients can get ongoing water quality information from far away. |
| 4. | Social Impact / Customer Satisfaction | This will help people to become conscious against contaminated water as well as to stop polluting the water. |
| 5. | Business Model (Revenue Model) | This system developed using IoT technology has huge potential since it helps in detecting the contaminants. |
| 6. | Scalability of the Solution | The main advantage is that IoT devices have capability to stream the array of collected data wirelessly to the remote Data Aggregator Server in the cloud. Thus, the Data Aggregator Server can retrieve the analysis result and transfer the result to the applications running on different gadgets in the cloud. |