**Project Design Phase-I**

**Proposed Solution**

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID48692 |
| Project Name | Project -REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM |
| Maximum Marks | 2 Marks |

**Proposed Solution :**

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | Monitoring and controlling the quality of the river water |
|  | Idea / Solution description | 1.To measure water parameters such as Ph,  dissolved oxygen, turbidity, conductivity etc. Using available sensors at a remote place.  2.To assemble data from various sensor nodes and send it to the base station by wireless channel.  3.To send SMS to an authorized person. |
|  | Novelty / Uniqueness | Arduino And Sensor Based Water Parameters Monitoring which identifies biological and chemical changes in water |
|  | Social Impact / Customer Satisfaction | Localities will not suffered by poor quality of water by alerting them when the water quality is not good. |
|  | Business Model (Revenue Model) | The monitoring system could be sold in the market for the purpose of testing water quality. |
|  | Scalability of the Solution | The model could be scaled according to size of the water body about to be tested |