**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 30 September 2022 |
| Team ID | PNT2022TMID10977 |
| Project Name | Real-Time River Water Quality Monitoring and Control System |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

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| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | This project represents an IoT (Internet of things) based smart water quality monitoring system that aids in continuous measurement of water condition based on physical parameters |
|  | Idea / Solution description | Field teams deploy sensors strategically at designated points water area to monitor waters within defined measurement parameters. |
|  | Novelty / Uniqueness | The uniqueness of our proposed project is to develop of novel small form factor, low cost sensing technologies. |
|  | Social Impact / Customer Satisfaction | It socially help water system managers identify threats to surface water earlier, make more fully informed decisions affecting the systems and the public they serve, and comply with ever-changing regulatory water quality monitoring requirements at federal, state and local levels. |
|  | Business Model (Revenue Model) | The River Water Management and Alert System built on this architecture enable access, control and management of river water pollution. |
|  | Scalability of the Solution | The Sensor Web architecture for crisis management, described in this project, provides active monitoring of measuring parameters and timely responses in cases of environmental disasters. |