

Project Design Phase-I  
Proposed Solution Template

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| Date          | 19 September 2022  |
| Team ID       | PNT2022TMID10999   |
| Project Name  | Project – 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.

| S.No. | Parameter                                | Description  |
|-------|--|--|
| •     | Problem Statement (Problem to be solved) | Due to the fast growing urbanization supply of safe drinking water is a challenge for the every city authority. Water can be polluted any time.  |
| •     | Idea / Solution description              | To measure water parameters such as pH, dissolved oxygen, turbidity, conductivity, etc. using available sensors at a remote place.   |
| •     | Novelty / Uniqueness                     | Develop of novel small form factor, low cost sensing technologies. Different methods of water quality monitoring and an efficient IoT based method for water quality monitoring .      |
| •     | 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 .                            |
| •     | Business Model (Revenue Model)           | The River Water monitiong and control system is used to monitor the water purity and pH level and to control the water pollution.  |
| •     | Scalability of the Solution              | The Sensor architecture for crisis management, described in this project, provides active monitoring of measuring parameters and timely responses in cases of environmental disasters. |