

Project Design Phase-I
Proposed Solution Template

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID27339 |
| 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 |
|-------|--|--|
| 1. | Problem Statement (Problem to be solved) | It is difficult to measure the water quality parameters manually for testing the quality of water |
| 2. | Idea / Solution description | This project proposes a sensor-based water quality monitoring system. Using the pH sensor , Turbidity sensor ,temperature sensor .The pH , turbidity , temperature of the water can be measured. If the acquired value is above threshold value automated warning SMS alert will be sent to the specified account. |
| 3. | Novelty / Uniqueness | The uniqueness of our proposed project is , the quality of water is obtained with high frequency , high mobility and low powered. |
| 4. | Social Impact / Customer Satisfaction | Using this project the quality of water can be measured easily so that necessary actions can be taken to avoid or reduce the water pollution . |
| 5. | Business Model (Revenue Model) | This project reduces the man power and time need to measure water quality parameters . All the water quality parameters will be displayed by this model so that necessary actions can be taken to improve the quality of water. |
| 6. | Scalability of the Solution | The main advantage of this project is its scalability. It is very compact in size such that it can be taken anywhere easily to measure the water quality . |