PROJECT DESIGN PHASE-I

PROPOSED SOLUTION TEMPLATE

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| TEAM ID | PNT2022TMID17622 |
| 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 |
| 1. | Problem Statement (Problem to be solved) | Collecting water samples from all areas of the water body is tough. Because lab testing and analysis require time, the lab result does not match real-time water quality assessment owing to measurement delay. |
| 2. | Idea / Solution description | Detecting dust particles, monitoring the PH level of the water, and changing the authority if the water quality is poor. |
| 3. | Novelty / Uniqueness | The novelty of our suggested idea is that the authorities will not have to regularly check the water. A web application can be used monitor the quality of river water. The quality parameter will be regularly tracked with standard measurements. |
| 4. | Social Impact / Customer Satisfaction | By warning people when the water quality is low, communities will not suffer from poor water quality. |
| 5. | Business Model (Revenue Model) | This project is helpful for identifying pollutants, simulating and evaluating quality parameters for quality control, and monitoring water quality. |
| 6. | Scalability of the Solution | The measurement of real-time readings and constant monitoring in the maintenance of water quality. |