

## Project Design Phase-I Proposed Solution Template

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| DATE          | 25 OCT 2022   |
| TEAM ID       | PNT2022TMID36354  |
| PROJECT NAME  | Real- Time River Water Quality<br>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) | Eutrophication, or the massive development of algae, causes pollution (monitoring and managing the quality of river water).          |
| 2.    | Idea / Solution description              | Detecting dust particles, monitoring water PH, dissolved oxygen, and temperature, and changing authorities if water quality is poor. |
| 3.    | Social Impact / Customer Satisfaction    | Localities will not suffer as a result of poor water quality since they will be notified when the water quality is not good.         |

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|----|--------------------------------|---|
| 4. | Business Model (Revenue Model) | Aeron systems provides water quality monitoring systems for industrial water treatment plants, river bodies, aqua forming, and digital recorders.   |
| 5. | Scalability of the Solution    | The assessment of real- time readings and continual monitoring helps in the preservation of water quality.  |
| 6. | Novelty / Uniqueness           | A web application may be used to monitor the quality of river water. The quality parameter will be tracked in real time with standard measurements. |