**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 17 October2022 |
| Team ID | PNT2022TMID38637 |
| 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) | * Water gets polluted due to industrial waste, medical waste, fertilizers or farm wastes. So water cannot be used for domestic purposes. |
|  | Idea / Solution description | * To measure various chemical and physical properties of water like pH, temperature and particle density of water using sensors. * Dispose the industrial waste, toxic chemicals and medical waste properly. |
|  | Novelty / Uniqueness | * If the acquired value is above the threshold value automated warning SMS will be sent to the agent. * The uniqueness of our proposed paper is to obtain the water monitoring system with high frequency, high mobility and low powered |
|  | Social Impact / Customer Satisfaction | * Living organism such as aquatics, human beings, animals suffer due to polluted water so this can be avoided. * Water borne diseases such as Typhoid, Cholera, Polio etc.. can be prevented and avoided. |
|  | Business Model (Revenue Model) | * Water quality monitoring system by aeron systems for industrial water treatment plant, river bodies, aqua forming ,digital loggers. |
|  | Scalability of the Solution | * Water quality data with a high spatial and temporal resolution for thousands of lakes at a time. * It supports the evaluation of environmental problems and potential health risks through the analysis of changes in water quality and the detection of harmful algal blooms. |