

## Project Design Phase-I

### Proposed Solution

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|---------------|---|
| Date          | 25 September 2022   |
| Team ID       | PNT2022TMID24448  |
| Project Name  | IOT Based Real-time River Water Quality Monitoring and Control System |
| Team Leader   | MP Diinesh Kumar  |
| Team Members  | P Praveen, G Sanjay Kumar, J Cegon Benadict                           |
| Maximum Marks | 2 Marks   |

### Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

| S.No. | Parameter                                       | Description   |
|-------|---|---|
| 1.    | <b>Problem Statement (Problem to be solved)</b> | IOT Based Real Time River Water Quality Monitoring and Control System.  |
| 2.    | <b>Idea / Solution description</b>              | <p>1.To measure water paramrters such as PH,disloved oxygen,turbidity,conductivity etc. Using available sensors at a remote place.</p> <p>2.To assemble data from various sensor nodes and send it to the base station by wireless channel.</p> <p>3.To send SMS to an authorized person.</p> |
| 3.    | <b>Novelty / Uniqueness</b>                     | <p>1.If the water is contaminated, it aware sensor send the alert message to the nearby control room.</p> <p>2.Sometimes employee is not there message has been sent to his mobile.</p>   |
| 4.    | <b>Social Impact / Customer Satisfaction</b>    | More than 50 kinds of diseases are caused by poor drinking water quality and 80% of disease and 50% of child deaths are related to poor drinking water,agriculture.   |
| 5.    | <b>Business Model (Revenue Model)</b>           | <p>1.Through Advertisment we can sell our project to the public sector.</p> <p>2.We can give advertisement through the social media</p> <p>3.Purity water is most important in world.</p> <p>4.To provide this information in advertisement is useful for socity.</p>                         |
| 6.    | <b>Scalability of the Solution</b>              | <p><b>IOT Sensor, Camera Drone monitoring &amp; assessment of the water purity.</b></p> <p>We can use it for agriculture and drinking</p>   |

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|  |  | water. Thus the Human begins, Goats and Cows infected should be avoided by this project. By using this water the farmer's land will be affected. Using this project we can avoid it. The health issues also avoid it. |
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