Real-Time River Water Quality Monitoring And Control System

Team Leader: HARSHINE R G

Team Members: GIFTY IN

DELIN REXY R

HEPHZIBA MERLIN J

Problem Statement:

Real-time river water quality monitoring and control system

1. Real water is highly polluted in present situation due to suspended materials

2. Farmers put fertilizers and pesticides on their crop so that they grow better but these fertilizers and pesticides can be washed through the soil by rain to end up in the rivers which causes concentration of nitrate and phosphate in the water increases considerably.

3. The massive growth of algae called Eutrophication, which leads to pollution. When the algae die they broken down by the action of bacteria which quickly multiply using up all the oxygen in the water which leads to the death of many animal

4. Some of the time the water has perilous particles or compound blended and broadly useful water purifier can't refine that. Furthermore, checking the nature of water physically in each time is unthinkable.

5. The ability to make real-time decisions during critical moments can be vital in preventing expensive repairs and breakdown. Water quality analysis is to measure the required parameters of water, following standard methods, to check whether they are in accordance with the standard. If the water quality is poor and it is below the permissible level it makes decision by comparing it with the previous reading date.

6. By timing update we can save to many lives and even save the livestock like cows etc. by preventing them from drinking river water. So a programmed ongoing checking framework is expected to screen the strength of the water held in our water tank of the general public or loft. So it can caution us consequently assuming that there is any issue with the saved water. What's more, we can check the nature of the water whenever and from anyplace.