

**Water Quality Index Calculation and Management  
System**

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## ABSTRACT

A decision support system is a way to model data and make quality decisions based upon it. It's widely used in the world for the various kind of process automation.

Decision support systems that just collect data and organize it effectively are usually called passive models where they do not suggest a specific decision but only reveal information. An active decision support system actually processes data and explicitly shows solutions based upon that data.

The water is found almost everywhere on Earth. Water resources like rivers, lakes, which provide water contain a lot of pollution, garbage unfit for consumption. Some diseases take time to present visible signs, but it does not mean they are inactive in your organism. To be clean, the water should undergo a number of treatments necessary to make it drinkable. So it is must to have purification technology for the waste water.

So the waste water treatment plants act a major role in these issues. When considering the procedures taken after the water treatment process was always based on manual calculations and recordings. Water purification plants may interact with lots of manual processes. It means the process taking much time consuming. So the final evaluation and chemical, biological treatment process get delayed. So to prevent those types of draw backs there are some computerized programmable calculation and analytical techniques going to be introduced to the laboratory staff. To solve this problem automated system will be a solution in which guarantees the rational selection.

The technological influence to the system is HTML, MySQL, php and some other web developing technologies. Current issues in the computerized water chemistry analysis are not much deep in progress. For an example the swimming pool water quality calculator.

The validity of the system has been verified by test running and comparison with an existing plant data. Automated system will make the life easier in productively and qualitatively.