

**Project presentation  
on  
IOT Based Water Quality  
Monitoring System**

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## INTRODUCTION

- As per increase in water pollution there is need of controlling pollution in water is finished by monitoring water quality.
- Our system consists of various sensors which will compute the standard values of water in real time for effective action and is accurate and only less manpower required.

## LITERATURE REVIEW

<u>Author</u>	<u>Topic</u>	<u>Finding</u>
Kamaludin	lot based system wireless sensor network.	Platform and internet protocol communication into a single platform for a water quality monitoring purpose.
Thinagaran perumal	lot based water quality monitoring system.	Major water level in real time.

## LITERATURE GAP

- We have identified a suitable implementation model that consists of different sensor devices and other modules, their functionalities are shown in figure. In this implementation model we used NODEMCU 8266 with Wi-Fi module. Inbuilt ADC and Wi-Fi module connects the embedded device to internet.

## OBJECTIVE

- Two measure critical water quality parameters such as physical and chemical properties.
- System must be a low-cost, most efficient as well as processing, sending and viewing data on cloud through Wi-Fi to mobile.
- To collect data from various sensor nodes and send it to best station buy wireless channel.



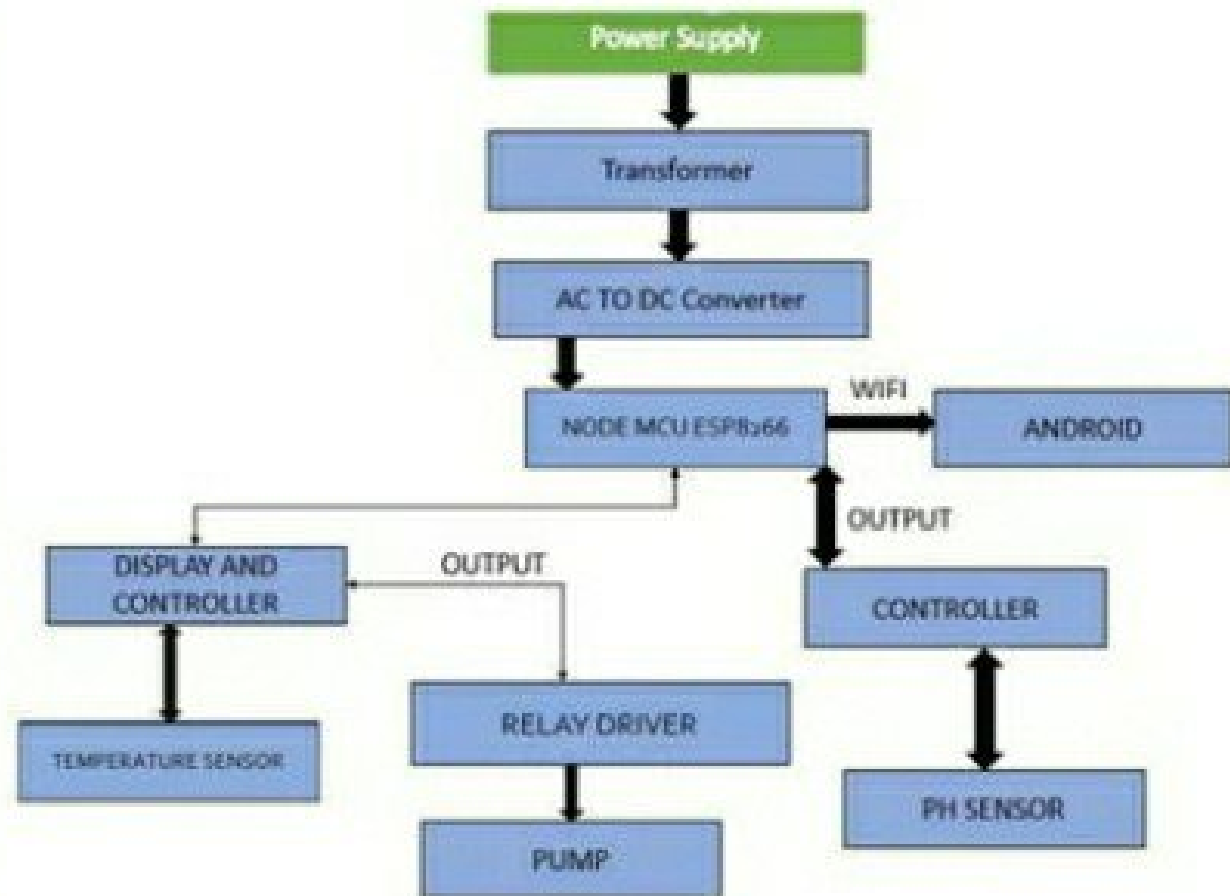
## REQUIREMENT EQUIPMENT

- *Functional requirement:*

1. PH sensor
2. Water level
3. Temperature sensor
4. Node MCU (ESP8266)
5. Wire
6. Power Supply
7. Relay Driver
8. Pump
9. Transformer



## BLOCK DIAGRAM



## ADVANTAGES

### Advantages

- It will reduce the time to measure the parameters.
- This is economically affordable for common people.
- Water quality monitoring is used to alert us to current, ongoing and emerging problems.

## CONCLUSION

- The presents a detailed survey on the tools and techniques employed in existing smart water quality monitoring system also a low cost less complex water quality monitoring system is proposed.
- The implementation enables sensor to provide online data to consumers. This can be improved by incorporating algorithms for anomaly detections in water quality.

## FUTURE SCOPE

### *Future Scope:*

- In future we use IOT concept in this project .
- Detecting the more parameters for most secure purpose .
- Increase the parameters by addition of multiple sensors .
- By interfacing relay we controls the supply of water.

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**THANK YOU**