REAL TIME RIVER-WATER QUALITY MONITORING AND CONTROL SYSTEM

s.no	TITLE	AUTHOR	OBJECTIVES	ADVANTAGES
01	**IOT based Real-time River Water Quality Monitoring System** **Published in**:2019	Elsevier B.V	This proposes a sensor based water quality monitoring system. **Parameters Monitor**: temperature, humidity, moisture. **Hardware components**: wireless sensor network include microcontroller **Protocol used**: smart phone using Wi-Fi. **Application**: Data collected at the apart site can be done using remote monitoring and Internet of Things (IOT) technology.	**Proposed work advantage:** The main advantage of this system is to process the system with this sensor based monitoring which the help of the microcontrollers.
02	**The monitoring of water quality in IOT environment** **Published in**: 2014 **Requested**: 2013 **Accepted:** 2014	G. noida	The internet of things and its services are becoming part of our everyday life, ways of working and business. And this system is to control with IOT. **Parameters Monitor**: temperature **Protocol used**: ZigBee, WIMAX. **Hardware components**: Arduino. **Application**: it is used in the real time application using IOT technology.	The low cost, efficient, real time water quality monitoring system has been implemented and tested.
03	**Water quality monitoring system in smart way** **Published in** : 2018 by international journal of	Ms. Needhu Rebecca biju	Nowadays the water is exploited heavily due to rapid industrialization. Thus, water monitoring is smart and important and it is done by this method using this smart system for river and lake waters. **Parameters Monitor**:	**Proposed work advantage:** The purpose of this system is to monitor the quality of waters in a smart way using the Internet of Things.

	innovation in engineering vol3, no3,		temperature, water polluted. **Protocol used**: smart phone with cloud. **Hardware components**: internet of things technology, cloud, Wi-Fi, Water parameters. **Application**: The data were sensed by the sensor and it collected the information in the cloud and send it to the user.	
04	**Wireless sensor networks : a survey on monitoring water quality** **Published in:** 2017 **Received**: 28 April 2016 **Accepted:** 16 July 2017	Mompoloki pule, Abid yahya, joseph chuma .	This work surveys the application of WSN in environmental monitoring, with particular emphasis on water quality. **Parameters Monitor**: temperature, humidity range, quality. **Protocol used**: IEEE 802.15.4 ZigBee and Bluetooth. **Hardware components**: wireless sensor networks Application: Military surveillance, industrial monitoring, medical telemetry and environmental monitoring	**Proposed work advantages:** They provide a promising infrastructure for numerous control and monitoring applications.
05	**Quality monitoring system of drinking water.** **Published in**: 21-10-2010 (IJERT)	Yaswanth Gowda K. N, vishali C	Drinking water is the need of every living thing, this is basically to check the quality range of a water to drink. **Parameter Monitor**: quality of water, turbidity sensors. **Protocol used**: smart phone with WI-FI. **Hardware board**: Arduino. **Application**: This technique is very easy due to the operation of cost, cost labor cost equipment cost comparatively others.	**Proposed work advantage**: Mainly used to reduce the water related diseases and prevent water pollution world health organization.
	Intelligent model	Yue, ying.	This is done by using	**Proposed work**

	for predicting water quality **Published in** 2011		wireless sensor networks, it is used to predict all the parameters of water. **Parameters Monitor**: temperature, humidity, turbidity. **Protocol used**: Wireless sensor networks. **Hardware component**: microcontroller. **Application**: physical analyzing method, chemical analyzing method, biological analyzing method.	**advantage**: checking all the parameters with the wireless sensor network system.
07	**Smart water monitoring system for real time water quality control system** **Published in:** 2019 IRJET		The purpose of this technique is to check the cleanliness of the water. **Parameters Monitor**: PH level, conductivity. **Protocol used**: ZigBee based WSN. **Hardware board**: Microcontroller based WSN. **Application**: used in the real time applications on water monitoring system.	**Proposed work advantage**: the main advantage of this is using a wireless sensor network for checking and analyzing all the parameters in the water.