IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 4, June 2025



Water Quality Monitoring System Based on IoT

Karan R. Chandalwar, Nikhita A. Barde, Shirisha S. Pureddi, Tejasvi Uike,

Naveen Yadgiri, Prof. Mahesh Dumbere Department of Computer Science Engineering adhi College of Engineering Research and Technology, Chandrapur, Maharashtr

Rajiv Gandhi College of Engineering Research and Technology, Chandrapur, Maharashtra, India

Abstract: Water pollution is one of the biggest fears for the green globalization. In order to ensure the safe supply of the drinking water the quality needs to be monitor in real time. In this paper we present a design and development of a Low-cost system for real time monitoring of the water quality in 10T (internet of things). Keyword: pH sensor, Turbidity sensor, TDS sensor, Microcontroller ESP32 model, WI-FI module. The system consist of several sensors is used to measuring physical and chemical parameters of the water. The parameters such as turbidity, PH, TDS sensor of the water can be measured. The measured values from the sensors can be processed by the core controller. The ESP32 model can be used as a core controller. Finally, the sensor data can be viewed on internet using WI-FI system.

Keywords: pH sensor, Turbidity sensor, TDS sensor, Microcontroller ESP32 model, WI-FI module

Copyright to IJARSCT www.ijarsct.co.in



DOI: 10.48175/IJARSCT-27622



159