Literature Survey

Date	19 September 2022
Team ID	PNT2022TMID15074
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Marks	4 Marks

Team Members
Prasanna Balaji E - 19BEC137
Rohini R – 19BEC121
Vijaya Dharshani R – 19BEC123
Madhumitha K – 19BEC136

S.NO	LINK	YEAR & JOURNAL	PAPER TITLE	AUTHOR NAME	SOLUTION
1.	Real-time water quality monitoring system using Internet of Things | IEEE Conference Publication | IEEE Xplore	2017 International Conference on Computer, Communications and Electronics (Comptelix)	Real-time water quality monitoring system using Internet of Things	B. Das and P. C. Jain	The water quality measuring system checks the quality of water in real time through various sensors (one for each parameter: pH, conductivity, temperature) to measure the quality of water. A ZigBee module is used in the system to transfer the data collected by the sensors to the microcontroller wirelessly, and a GSM module is used to transfer wirelessly the data further from the microcontroller to the smart phone/PC. The system also has proximity sensors to alert the officials by sending a message to them via the GSM module in case someone tries to pollute the water body.
2.	Elsevier Enhanced Reader	The 16th International Conference on Mobile Systems and Pervasive Computing (MobiSPC) August 19-21, 2019	IoT Based Real-time River Water Quality Monitoring System	Mohammad Salah Uddin Chowdurya, Talha Bin Emranb, Subhasish Ghosha, Abhijit Pathaka, Mohd. Manjur Alama, Nurul	The main components of Wireless Sensor Network (WSN) include a microcontroller for processing the system, communication system for inter and intra node communication and several sensors. Real-time data access can be done by using remote monitoring and Internet of Things (IoT) technology. Data collected at the apart site can be displayed in a visual format on a server PC with the help of Spark streaming

				Absara, Karl Anderssonc , Mohammad Shahadat Hossain	analysis through Spark MLlib, Deep learning neural network models, Belief Rule Based (BRB) system and is also compared with standard values. If the acquired value is above the threshold value automated warning SMS alert will be sent to the agent. The uniqueness is to obtain the water monitoring system with high frequency, high mobility, and low powered.