LITERATURE SURVEY:

TITLE	AUTHOR	PUBLICATION	CONTENTS
Water quality monitoring using wireless sensor networks: Current trends and future research directions	K. S. Adu-Manu, C. Tapparello, W. Heinzelman, F. A. Katsriku, and J.-D. Abdulai	ACM Transactions on Sensor Networks (TOSN), vol. 13, p. 4, 2017	Survey of the current state of the art in the design and implementation of WSN-based WQM systems, describing a framework for WSN-based WQM systems and discussing the technologies used at each stage in the monitoring process.
Real-time estimation of population exposure to PM2.5 using mobile- and station-based big data	B. Chen, Y. Song, T. Jiang, Z. Chen, B. Huang, and B. Xu	Int J Environ Res Public Health, vol. 15, Mar 23 2018	The proposed method in this paper can well quantify dynamics of the real-time population distribution and yield the estimation of population exposure to $PM_{2.5}$ concentrations and cumulative inhaled $PM_{2.5}$ masses with a 3-h updating frequency
Sensor based water quality monitoring system	B. Paul	BRAC University, 2018	Causes and effects of water pollution is presented, and comprehensive review of different methods of water quality monitoring and an efficient IoT based method for water quality monitoring has been discussed.
Smart Risk Assessment Systems using Belief-rule-based DSS and WSN Technologies	K. Andersson and M. S. Hossain	International Conference on Wireless Communications, Vehicular Technology, Information Theory and Aerospace and Electronic Systems	Described how a smart risk assessment system using belief-rule-based expert systems and WSN technologies could be built
The use of artificial neural networks for the prediction of water quality parameters	H. R. Maier and G. C. Dandy	Water resources Research, vol. 32, pp. 1013-1022, 1996	Analysis gives that ANN models appear to be a useful tool for forecasting salinity in rivers

The real time monitoring of water quality in IoT environment	N. Vijayakumar and R. Ramya	5 International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS), 2015, pp. 1-5	The design and development of the real-time monitoring of the water quality parameters in IoT environment is presented using water quality parameter sensors, Raspberry PI B+ core controller and an IoT module (USR WIFI 232)
An Interoperable IP based WSN for Smart Irrigation Systems	M. Z. Abedin, A. S. Chowdhury, M. S. Hossain, K. Andersson, and R. Karim	14th Annual IEEE Consumer Communications & Networking Conference, Las Vegas, 8-11 January 2017, 2017	Functionality of IOT is applied to agriculture like smart irrigation.Analysis of the performance of 6LoWPAN protocol stack