REAL TIME RIVER WATER QUALITY MONITORING

AND CONTROL SYSTEM

TEAM

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PROBLEM STATEMENT:

The main problem with the IOT is the storage .A typical IOT device can accumulate thousands of data ,thus a large storage systems needed .Notification on how to use push is also a topic of discussion .When to alert user based on the water status is also a problem that needs to be solved .

Current practices implemented at water treatment plant is also an issue when doing this project .the way things work now with respect to checking the water source status whether it is high in ammonia content or not is that technicians check the site every 2 hours .if the water is deemed high in ammonia. There would be no real treatment to it, the plant would need to stop operation and allow the water to naturally lower its ammonia content

The water treatment plants purpose was only to get the chemical compound reading of the water and sent it to BAKAL SETIA AIR JOHOR ,for BAKAJ is the one that decides what the next step is going to be taken . stopping the plant operation requires BAKAJ approval even if the technician confirms the water is polluted . BAKAJ actions is not immediate when they receive information knowing that the water is polluted .they would wait around a few hours to half a day to really confirms the water is polluted then only they would instruct the water treatment plant to stop operation . with the time wasted , polluted water would already be in the residential water supply tank thus would prevent people from getting their water

LITERATURE SURVEY

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| YEAR | PAPER NAME | AUTHOR | DESCRIPTION | LIMITATION |
| 2015  IEEE | Design of water management system | F NTAMBI ,CP KRUGER , BJ SILVA ,G P HANCKE | The system consist of 3 wireless sensor sub system .all communicate with each other wireless and send information to gateway connected to a computer which hosts the GUI | Due to wireless transfer of data sometimes delivery of data is not ensured . there are chances of loss of data |
| 2016  IEEE | Smart water management using IOT | Sayali Wadekar ,Vinayak valkare,ram ratan prajapati | Water level sensor will provide the level of water present in the water tank and according to the level of water motor will automatically turn ON and OFF. Data is displayed on android application. | No quality monitoring is performed ,so even if water is available in tank without performing quality check water will be supplied . |
| 2017  IJIRS ET | An IOT based model for smart water  Distribution with quality monitoring | Joy shah | The paper focuses on water distribution using water flow sensor and water control valve will help in even distribution of water and provide adequate amount of water | The model dose not use water level sensor, so the availability of water in the tank will not be known. People will not be aware of unavailability of water |

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2. S. madakam , r. ramaswamy, and s.tripathi , “internet of thing A literature review,’’j.Comput. Commun .., vol.no3 no 5 ,app .164-173,2015