**Sistem of Water Height Monitoring in the Dam Long Distancely Using Radio Waves**

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**ABSTRACT**

Monitoring of water height at dam barrage at the moment is still done manually with direct vision to dam. With knowing the height of water, each room control between dam will giving data each other by HT radio to determine the percentage of open/close water gate at the dam. This is matter less effective because water height data is unacceptable every moment. Besides that te control room is too close with the dam. This matter cause control room become less peaceful in the event of trouble and or disaster at dam.

In making this Final Project used two mikrokontrole r to be placed on the dam and the control room. Level sensor detects the height of the dam water which is then sent to the data will be forwarded through Mikrokontroler and transmission RFM12B to Radio Waves Mikrokontroler close to the PC. From the PC display will show the height of water in the dam and doors to determine how much water sluicegate percent who want to open.

At this final project have been examined data communications between radio of RFM12B from dam miniatur to PC with maximum distance 80 metre. The delivery includes of height of flood data and water gate rotator. By changinf transceiver radio ably further reach and replace level censor with ultrasonic censor, this appliance can be used for the application of water height monitoring at dam.

**Key word** : System of Water Height Monitoring in the Dam, level sensor, ATmega8L Microcontroller, RS232, ISM Band FSK Transceiver Module RFM12B, stepper motor, Delphi