

## ABSTRACT

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*Water quality is very influential on health. Poor water quality will have an impact on human health. Water quality is must compatible with Water Quality Standard issued by Minister of Health Indonesia on 1990 with some water clarity parameters inside. Because of that, a monitoring system based on sensors was established which refers to Water Quality Standard and is one of the many solutions offered. This clarity sensor is made of a some light sensor that can detect the clarity of water like photodiode, LDR, LED, and Infrared Sensor. This sensor can display the clarity value with NTU (Nephelometric Turbidity Unit) scale. Previously, this sensor data is stored into the ThingSpeak site so it can be accessed by Android apps as atool for monitoring. From the results of some experimental testing, this tool can detect the water clarity according to the scale 1-100 NTU and the transmision of this sensor data takes 16 seconds to be accepted by the database. The final result is a prototype that can detect the water clarity.*

*Keywords: Water Quality Standard (SKA), NTU, Arduino, Android, Water Clarity Sensor*