

## **ABSTRACT**

### **ENVIRONMENTAL MONITORING OF RUBBER LATEX PROCESSING FACTORY BASED ON INTERNET OF THINGS**

**By**

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The purpose of the research was to design a tool for monitoring the environment around a rubber processing factory based on the Internet Of Things (IOT) method, testing the environmental monitoring tool around the rubber processing factory based on the Internet Of Things (IOT), which was designed and analyzed for the operation of the environmental monitoring tool around the rubber processing factory based on the Internet of Things (IOT). It showed that testing of the water pH sensor module from 5 samples of well water in the environment of the rubber processing factory in the Natar district, it was concluded that the well water in that environment was categorized as "ACID". The turbidity sensor GE testing results with 5 samples of well water was known that from 5 samples of well water in the environment of the rubber processing factory in the Natar district, it was concluded that the well water in that environment is categorized as "CLEAN". The MICS 6814 sensor testing results can determine the gas readings in the environment of the rubber processing factory in Natar, which are CO gas 25 ppm, NO<sub>2</sub> gas 5 ppm, and NH<sub>3</sub> gas 50 ppm, it can be concluded that the gas in the environment of the rubber processing factory in Natar is categorized as "INCREASING". And, from the application testing results, it can be known if the application can effectively display the sensor readings.

**Keywords:** *Internet of Things (IOT), Air Quality, Water Quality*