

## ABSTRACT

### **STUDY ABOUT EFFECTIVENESS WASTEWATER TREATMENT INSTALLATION KARTINI HOSPITAL MOJOKERTO REVIEWED FROM NH<sub>3</sub> PARAMETERS IN 2022**

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A hospital is a health facility that organizes health service activities and can function as a place for health worker education and research. and also the hospital as a community service facility that is intended for public services where the sick and healthy people gather. From the results of observations at the Hospital based on data from the Environmental Service, the examination of the effluent of the Kartini Hospital's Liquid Waste Treatment Installation for NH<sub>3</sub> parameters in the last year the quality of the wastewater produced by the Limah Water Treatment Installation of Kartini Hospital tends to go up and down. The quality of NH<sub>3</sub> (ammonia) in January was 1.21 and in February it was 2.11mg/l with a quality standard of 0.1mg/l.

The purpose of this study was to determine the effectiveness of the wastewater treatment plant at Kartini Mojokerto Hospital. The type of research used in this research is descriptive research, where descriptive research is a method that aims to provide an overview of the effectiveness of the wastewater treatment plant at Kartini Mojokerto Hospital based on NH<sub>3</sub> parameters.

Based on the research that has been done, it was found that the Kartini Hospital wastewater treatment system with a combined aerobic and anaerobic system was not effective in reducing the level of the NH<sub>3</sub> parameter, which was 10,92%. The wastewater treatment system was still not effective in reducing the NH<sub>3</sub> parameter. In order to get good outlet results and meet quality standards, it is expected that sanitarian staff will carry out periodic monitoring or checks so as to prevent disruption of the wastewater treatment process.

Keywords: hospital waste, wastewater treatment system, NH<sub>3</sub> parameter effectiveness.