

## **ABSTRACT**

*Water is a vital thing for humans that is used for daily living needs such as drinking, cooking, bathing, washing. In order to support the needs of the community, the Sleman district government provides drinking water source services through the Drinking Water Treatment Company (PDAM) Sleman channel. Sleman PDAM must be able to provide enough clean water needs of the Sleman community. This study aims to identify the level of clean water needs of community users of PDAM in Ngaglik Subdistrict, Sleman Regency and to projection the clean water needs of the people of Sleman until 2023. The research method used in this research is the observation method by recording one by one the number of clean water usage of the home customers stairs in PDAM Sleman. The sample in this study amounted to 100 samples of PDAM Sleman household customers that were calculated using the Slovin formula. Data analysis for the projection of the amount of water demand this study refers to four population projection methods Minister of Public Works Regulation No: 18 / PRT / M / 2017, among others: Arithmetic, Geometric, Exponent and Least Square methods. The results of this research are classified based on age. The results show that the average actual needs of children is 172 L / person / day, the actual needs of adults are an average of 221 L / person / day, and the average actual usage of PDAM users is 213.2 L / person / day. Projection of clean water needs that must be provided by PDAM Sleman for the next five years (2018 up to 2023), the amount is estimated at 331,622 L / Second.*

**Keywords:** *Clean Water, PDAM Users, inhabitant Projection, Water Needs*