

## ABSTRACT

Republic of Indonesia Ministry of Health  
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### NECESSITY PLAN OF SANITARY WATER IN PDAM OF MAGETAN REGENCY IN THE VII BRANCH AREA IN 2021 UNTIL 2035.

viii + 79 pages + 14 tables + 6 images + 15 attachments

PDAM Magetan, especially in 7<sup>th</sup> branch service area needs to do planning until 2035. The waterflow is not sufficient. So that there is a problem in non current of waterflowins Be due to that problem, it can causes a sosial disturbance such as demonstration. This Research aims to plan the discharge of sanitary water next is years which is used as the basis for providing sanitary water and can determine the waterflow that must be available until 2035.

This research type is descriptive, the data which have been collected is tabulated an then analyzed to provide an actual general description of the community. The population uses all networks thah have been serviced by PDAM such as general social networks, special socials, house holds (2A), house hold (2B), Government agencies, small commerce, Big commerce. The sample used the results of a survey of sanitary water in is villages by taking is connection in each village for sampling.

The result show that the recent current available waterflow is 98,04 liters/second it is found that water requirement 97,43 liters/second, while the available waterflow can only meet consumer needs until 2020, based on calculations and network development in 2035, it is found that water requirement is 115,36 liters/second and there is a shortage of 17,32 liters/second.

To over come this problem, the steps that must be taken are such as adding connections is limited, according to the development of the existing network. Searching for new springs, adding wells, not adding new networks. For this study, it is necessary to carry out further research with a larger population sample of water use in order to describe a more concrete one, it is necessary to calculate a larger sample of liters/person/day, and it needs to be calculated in other branches, it is necessary to survey the percentage of the population which is not served by PDAM with its growth rate, it is necessary to calculate the housing developments including new housing.

Literature: 5 (2005-2019)

Keywords: Waterflow planning of PDAM Magetan regional 7<sup>th</sup> branch in 2021-2035.