

ABSTRACT

Perum Jasa Tirta II (PJT II) is a State Owned Enterprise (SOE) based on Government Regulation number 07 year 2010, a form of business enterprise to provide service for public use and also to increase profits based on the principles of good corporate governance. One of the tasks of PJT II concession is to provide and deliver raw water for the Regional Water Company (PDAM) and District Water Company (PAM) of DKI Jakarta, which is the largest customer, as well as water for industrial needs. Along with the increase of population, especially in Jakarta, the need for clean water and drinking water increases, so the direct raw water demand increases. Therefore, in order to achieve the vision of the management company Perum Jasa Tirta II seeks to meet customer demand with the delivery of raw water according to the quantity demanded. For that researchers are trying to help realize the goals of the company by creating a maintenance system analysis tarum west channel to increase corporate productivity, as for the analysis of the data here is used raw water demand in 2007 up to 2009 and calculated plan of the raw water demand in the year 2010 with a forecasting method Time Series. And the forecasting results would be used as input for policy decision-making or management in determining maintenance measures in the West Tarum channel to meet demand for raw water. And the results showed convincingly that the analysis and maintenance on the canal system through the appointment of western tarum menyeluh sedimentation is the perfect solution to increase the quantity of supply and productivity significantly.

Keywords: Maintenance of a comprehensive and sustainable.