ABSTRACT

THE STRATEGY FOR IMPROVEMENT OF DRINKING WATER DISTRIBUTION SERVICES OF THE PDAM OF SUMENEP TOWN

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The services of drinking water supply in PDAM of Sumenep Town is still facing technical, financial, and institutional problems. It makes the PDAM of Sumenep Town has been categorized as financial distress. To solve this condition a strategic plan for the improvement of the PDAM performance, which is primarily focusing on technical, financial, and institutional aspects, is required. It is expected that once the strategic plan is prepared, the service of drinking water to communities can reach the goal of 68% and a reduction of water losses will reach 25% in year 2021.

The method used in this research for evaluating the institutional aspect of the PDAM is based on the Minister of Internal Affairs Decision Number 47 Year 1999 regarding to the Manual for Evaluation of PDAM Institutional Performance. The results of technical evaluation show that (i) the raw water sources can fulfill water demand for communities until the next 13 years, (ii) there is low service coverage level, (iii) there is high water losses due to the leakage from pipes since the condition of the existing piping network is bad. Based on the criteria stated in the Minister of Internal Affairs Decision Number 47 Year 1999, the PDAM performance is considered as reasonably good; however, based on the criteria of the BPPSPAM, it is categorized as bad.

In order to develop the service area for the future, an investment of IDR 10.037 billion for improving the pipe network infrastructures must be invested. The feasibility study on the investment shows results as follows (i) IRR > 16 %, (ii) positive NPV, (iii) PI > 1, and iv) PPDF < investment period. It can be concluded that the investment plan is feasible. To achieve the target of the development effectively and efficiently, a strategic plan for the improvement has been formulated in which the program will be implemented in short, middle, and long term periods.

Key words: Strategic, piping network, improvement service, PDAM of the Sumenep Town