# DECISION SUPPORT SYSTEM IN LICENSING AND PLACEMENT OF SEINE POND USING AHP METHOD (A CASE STUDY IN PT. PJB CIRATA MANAGEMENT BOARD CIRATA BASIN)

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## ABSTRACT

Decision is a reaction of choosing some solutions that is conducted consciously as a strategy in problem solving. In general, definition of decision making theory is a technique used in action selection process as one way to solve problem to achieve maximum result.

In decision making process, the decision makers are usually faced by problems derived from varied criteria amount, unclear standardization, and criteria that can change anytime (dynamic).

This process is similar with process occured in PT. BPWC Cirata, in this case the process of licensing and placing the seine pond. This process has two major steps in which each step has its own criteria and subcriteria that have been established before. The decision makers encounter difficulties in deciding priority, calculating ... and assessing. In accordance with those difficulties, Analytic Hierarchy Process (AHP) could be used in solving these problems.

Analytical Hierarchy Process (AHP) is a decision making method in deciding priority problem selection from some alternatives. The use of AHP is started with arranging hierarchy structure of problems that are going to be investigated, calculating pairwise comparison matrix, calculating criteria weight and consistency of the matrix.

After testing the alpha and beta, it can be inferred that the system has functionally produced expected result. Moreover, the decision support system is considered as a way to facilitate the decision making process. On the other hand, it is easy to use, can be learnend and produce expected information.

Keywords: decision support system, licensing and placement of pond location, AHP, dynamic.