

ABSTRACT

Supplier selection is a crucial stage in the smooth running of a construction project, especially related to the procurement of materials such as asphalt and concrete. PT. Satria Buana Pamulang Sakti faces difficulties in determining the right supplier because the selection process so far has only relied on intuition without any structured criteria. As a result, there have been delays in delivery and a decrease in the quality of materials, which have resulted in losses for the company.

This research is significant because mistakes in selecting suppliers can lead to wasted time and money, as well as reducing the final quality of the project. Repairing damage due to asphalt that does not meet specifications can incur additional costs, where hotmix asphalt is estimated to require a budget of around IDR 150,000 - IDR 300,000 per square meter. This problem emphasizes the need for an objective and measurable supplier evaluation system.

The Analytic Hierarchy Process (AHP) method is used to support the decision-making process. The four main criteria considered include quality, price, delivery time, and reputation. Data were obtained through interviews and questionnaires, then analyzed to determine the weight and priority of each supplier.

Based on the evaluation results that have been carried out, the supplier who obtained the highest score according to the predetermined assessment parameters becomes the main recommendation. For the Pen 60/70 asphalt material, PT. Bintang Djaja managed to achieve the best score with a score of 0.467. Meanwhile, in the emulsion category, PT. Hutama Prima leads with a score of 0.656, and for the needs of industrial solar, PT. Aidil Prapta Adibrata is in first place with a score of 0.579. The applied methodological approach provides a structured framework and can be used as a reference for the supplier selection process in the next period.

Keywords: *supplier selection, quality, price, delivery, reputation, construction*