

ANALISIS PEMILIHAN JASA KONSULTAN NON KONSTRUKSI MENGUNAKAN METODE AHP DAN TOPSIS

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ABSTRAK

PT. XYZ membutuhkan jasa konsultan non konstruksi untuk melakukan analisis atau riset mengenai tren bisnis kepelabuhanan dan logistik yang akan digunakan untuk perencanaan bisnis perusahaan kedepannya. Terdapat delapan kriteria yang digunakan untuk menilai vendor yaitu *quality, performance history, warranties & claim policies, price, communication system, reputation & position in industry, management & organization*, dan administrasi perusahaan. Metode AHP dipergunakan pada pelaksanaan penentuan prioritas atau bobot pada masing-masing kriteria yang selanjutnya akan digunakan untuk pengambilan keputusan alternatif terbaik menggunakan metode TOPSIS. Berdasarkan hasil metode AHP didapatkan bahwa kriteria dengan prioritas tertinggi yaitu *management & organization* dengan bobot sebesar 21%, *quality* bobot sebesar 19%, *reputation & position in industry* bobot sebesar 19%, *performance history* bobot sebesar 12%, *communication system* bobot sebesar 10%, *price* bobot sebesar 8%, administrasi perusahaan bobot sebesar 6% dan kriteria dengan prioritas terendah yaitu *warranties & claim policies* bobot sebesar 5%. Pembobotan kriteria tersebut digunakan untuk melakukan pemilihan alternatif terbaik pada metode TOPSIS dan didapatkan bahwa vendor yang memiliki skor prioritas tertinggi sebesar 0,6400 adalah PT. A.

Kata Kunci : Jasa Konsultan, AHP dan TOPSIS

**ANALYSIS OF NON-CONSTRUCTION CONSULTING SERVICES
SELECTION USING AHP AND TOPSIS METHODS**

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ABSTRACT

PT XYZ requires non-construction consulting services to analyze or research the trends of port and logistics business that will be used for the company's future business planning. There are eight criteria used to evaluate vendors, quality, performance history, warranties & claim policies, price, communication system, reputation & position in industry, management & organization, and company administration. The AHP method is used to prioritize or weight each of the criteria which will then be used to make the best alternative decision using the TOPSIS method. Based on the results of the AHP method, it is found that the criteria with the highest priority are management & organization with a weight of 21%, quality weight of 19%, reputation & position in industry weight of 19%, performance history weight of 12%, communication system weight of 10%, price weight of 8%, company administration weight of 6% and the lowest priority criteria are warranties & claim policies weight of 5%. The weighting of these criteria is used to select the best alternative in the TOPSIS method and it is found that the vendor having the highest preference value is PT. A with a preference value of 0.6400.

Keywords : *Consulting Services, AHP and TOPSIS*