

Penilaian tingkat efisiensi kinerja pemasok untuk industri pengemasan menggunakan metode analytical hierarchy process dan data envelopment analysis = Supplier's level of efficiency performance assessment in packaging industry using analytical hierachy process and data envelopment analysis method

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20472425&lokasi=lokal>

Abstrak

ABSTRACT

Penilaian kinerja pemasok merupakan salah satu strategi pada bagian pembelian yang dilakukan oleh perusahaan untuk mendorong kelancaran produksi perusahaan. Penilaian kinerja pemasok termasuk dalam suatu proses makro rantai pasok yaitu pada bagian Supplier Relationship Management yang bertujuan untuk memperoleh nilai, mengevaluasi, dan meningkatkan kinerja pemasok dalam pengiriman sumber daya berupa barang dan jasa. Penelitian untuk penilaian kinerja pemasok dilakukan dengan menggunakan metode pengambilan keputusan multikriteria, salah satunya ialah metode Analytical Hierarchy Process dan metode Data Envelopment Analysis pada bidang industri pengemasan flexible packaging. Penelitian dilakukan dengan melakukan penilaian pemasok untuk setiap bahan baku. Penggunaan metode Analytical Hierarchy Process AHP bertujuan untuk mencari kriteria kriteria yang sesuai untuk penilaian kinerja pemasok serta melakukan pemeringkatan bobot alternatif berdasarkan prioritas. Hasil dari AHP ialah prioritas tertinggi untuk bahan baku resin PE dan resin PP adalah pemasok KPM, bahan baku OPP film terdapat PT. AKP, bahan baku PET film terdapat PT. INTI, bahan baku tinta terdapat PT. INKO, bahan baku solvent terdapat PT. ICC, dan bahan baku adhesive terdapat PT. PIC. Sedangkan metode Data Envelopment Analysis digunakan untuk melakukan penilaian efisiensi kinerja pemasok pada setiap bahan baku. Hasil dari penelitian ialah pemasok yang paling efisien untuk bahan baku resin PE ialah KPM dan PT. BCM, bahan baku resin PP terdapat KPM, PT. BCM, dan PT. PMM, bahan baku OPP film terdapat PT. AKP dan PT. LP, bahan baku PET film ialah PT. AKP, PT. INTI, dan PT. ISI, bahan baku tinta ialah PT. CT, bahan baku solvent terdapat PT. ICC dan MAP, dan bahan baku adhesive dengan PT. PMM.

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ABSTRACT

Supplier performance assessment is one of purchasing strategies that conducted by the company to drive smooth production. Supplier performance assessment is included in supply chain macro process which part of Supplier Relationship Management to obtain value, evaluate, and improve supplier performance in resources delivery in form of goods and services. This research applied by using multicriteria decision method which include Analytical Hierarchy Process method and Data Envelopment Analysis method in flexible packaging industry. The research conduct supplier assessment on each raw materials. The use of Analytical Hierarchy Process method in this research is to find the selected criteria for supplier performance assessment as well as to order alternative weight based on priority. The result of AHP is the highest priority for raw material of resin PE and resin PP is KPM, OPP film is PT. AKP, PET film is PT. INTI, the raw material of ink is PT. INKO, raw materials of solvent is PT. ICC, and adhesive is PT. PIC. While Data Envelopment Analysis method is used to perform efficiency in supplier performance analysis on every

decision unit making of raw materials. The result of the research is supplier ranking for each raw materials and also the supplier which is categorized as efficient suppliers. Result of this research is the most efficient supplier for resin PE are KPM and PT. BCM, resin PP are KPM, PT. BCM, and PT. PMM, OPP film are PT. AKP and PT. LP, PET film are PT. AKP, PT. INTI, and PT. ISI, the raw material of ink is PT. CT, solvent raw materials are PT. ICC and MAP, and adhesive with PT. PMM.