

Penentuan keputusan pembelian bahan baku yang optimal dengan metode analytic network process dan goal programming

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Abstrak

Penelitian dilakukan dengan dilatarbelakangi pentingnya optimasi pada pembelian bahan baku di perusahaan manufaktur. Optimasi dilakukan untuk menentukan kepada siapa bahan baku dibeli dan berapa kuantitas pembelian yang sesuai. Melalui Analytic Network Process (ANP) diperoleh bobot kriteria penilaian performa supplier dan nilai supplier untuk tiap kriteria. Output dari ANP dimodelkan dalam Goal Programming untuk diketahui kuantitas pembelian bahan baku pada setiap supplier. Dari hasil penelitian, terdapat 8 kriteria untuk menilai performa supplier; harga, kualitas, delivery, after sale service, fleksibilitas, pengemasan, kemampuan menjaga hubungan, serta fasilitas dan kapasitas produksi. Alokasi pembelian untuk kelima jenis bahan baku sebagian besar dilakukan pada satu supplier.

.....This research was conducted with the importance of optimization in raw material purchasing as its background. Optimization was done in determination of whom the material should be purchased, and in what quantity. Using Analytic Network Process (ANP) the weight of each criteria to score suppliers performance and the suppliers score were obtained. The output from ANP was modeled into Goal Programming to obtain the quantity of material that should be purchased from each supplier. There are 8 criteria to score suppliers performance; price, quality, delivery, after sale service, flexibility, packaging, ability to maintain relationship, and facility and capacity of production. Allocation to purchase 5 kinds of material was mostly done in one supplier.