

# PERANCANGAN MODEL EVALUASI PERFORMANSI DAN PEMILIHAN SUPPLIER PACKAGING INDIVIDUAL CARTON DENGAN KOMBINASI ANALYTICAL HIERARCHY PROCESS DAN GREY RELATIONAL ANALYSIS (Studi Kasus di PT X)

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## **Abstrak**

Bagian yang terpenting dari pengadaan adalah menemukan supplier yang tepat. Pengevaluasian dan monitoring performansi supplier menjadi aktivitas yang wajib dilakukan perusahaan sebagai bahan evaluasi yang bisa digunakan untuk meningkatkan performansi supplier atau sebagai bahan pertimbangan perlu tidaknya mencari supplier alternatif. Saat ini PT X melakukan penilaian performansi supplier hanya pada kriteria quality dan schedule adherence dan kurang memperhatikan kriteria lain yang dapat menambah nilai pada masa yang akan datang. 2 kriteria tersebut kurang representatif dalam penilaian performansi supplier secara keseluruhan. Tujuan dari penelitian ini adalah untuk merancang model penilaian evaluasi performansi supplier yang lebih representatif dengan menentukan kriteria-kriteria (Key Performance Indicator), serta menentukan prioritas alternatif (ranking) supplier packaging dengan menggunakan rancangan model penilaian evaluasi performansi supplier menggunakan Analytical Hierarchy Process (AHP) dan Grey Relational Analysis (GRA). Berdasarkan hasil penelitian didapatkan 7 kriteria penilaian supplier yang dapat digunakan, yaitu price, delivery, quality, production facilities, design and technical capability, warranties and claims policies, dan partnership relationship. Dengan metode AHP didapatkan bobot tertinggi yaitu kriteria quality (0.244). Kemudian dengan metode GRA koefisien grey tertinggi adalah PT MN (0.79;  $\zeta = 0.5$ ). Sehingga didapatkan prioritas supplier terbaik dengan grade grey relational tertinggi ( $\Gamma_{0i}$ ) adalah PT MN (0.786).

**Kata Kunci:** *Supplier, Analytical Hierarchy Process, Grey Relational Analysis*

## **Abstract**

*The most important part of the procurement is to find the right suppliers. Evaluating and monitoring the performance of suppliers is also the activity that must be firm as evaluation materials that can be used to remind the performance of supplier or as a material consideration whether or not to seek alternative suppliers. Currently, PT X perform supplier performance assessment criteria only in quality and schedule adherence, and less attention to other criteria that can add value in the future. Two criteria are less representative in the assessment of overall supplier performance. The purpose of this research is to design a model of supplier performance evaluation rating more representative by specifying the criteria (Key Performance Indicator), and determine the alternative priority (ranking) packaging suppliers by using the design of the supplier performance evaluation assessment model using the Analytical Hierarchy Process (AHP) and Grey Relational Analysis (GRA). Based on the results, supplier rating 7 criteria that can be used, ie price, delivery, quality, production facilities, design and technical capability, warranties and claims policies, and partnership relationships. With AHP method obtained the highest weighted criteria of quality (0.244). Then, with the highest grey coefficient GRA method is PT MN (0.79,  $\zeta = 0.5$ ). So that got the best supplier priority with the highest grade of gray relational ( $\Gamma_{0i}$ ) is PT MN (0.786).*

**Kata Kunci:** *Supplier, Analytical Hierarchy Process, Grey Relational Analysis*