

Analisis Risiko Rantai Pasok Material Distribusi Utama Pada PT PLN (Persero) = Primary Distribution Material Supply Chain Risk Analysis in PT PLN (Persero)

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Abstrak

Tujuan dari penelitian ini adalah untuk mengidentifikasi, menilai faktor-faktor risiko dan menyusun strategi mitigasi rantai pasokan material distribusi utama di PLN. Identifikasi faktor risiko didasarkan pada tinjauan literatur yang komprehensif di berbagai sektor industri, yang selanjutnya divalidasi oleh ahli. 27 faktor risiko telah diidentifikasi dengan empat sub-kategori risiko yaitu risiko pasokan, risiko operasi, risiko permintaan, risiko man-made dan risiko alam. Penelitian ini menggunakan metodologi Decision Matrix Risk Assessment (DMRA) yang melibatkan evaluasi risiko berdasarkan kemungkinan dan dampaknya dikombinasikan dengan Average Risk Scale untuk mengakomodir jumlah responden sebanyak 66. Hasil analisis menunjukkan terdapat 15 faktor risiko yang berada pada zona risiko tinggi antara lain keterbatasan bahan baku, keterbatasan kapasitas pemasok, dan ketergantungan pemasok yang dapat dimitigasi dengan diversifikasi pemasok, serta risiko keterlambatan pengiriman dengan mitigasi pengalokasian unit penerima dipasok oleh pabrikan terdekat. Terdapat total 33 mitigasi risiko yang telah divalidasi para ahli.

.....The aim of this research is to identify, assess risk factors and develop mitigation strategies for the primary distribution material supply chain at PLN. Identification of risk factors is based on a comprehensive literature review in various industrial sectors, which is further validated by experts. 27 risk factors have been identified with four sub-categories of risk, namely supply risk, operational risk, demand risk, man-made risk and natural risk. This research uses the Decision Matrix Risk Assessment (DMRA) methodology, which involves risk evaluation based on probability and impact combined with an Average Risk Scale (ARS) to accommodate a number of respondents of 66. The results of the analysis show that there are 15 risk factors that are in the high risk zone, including limited raw materials, limited supplier capacity, and supplier dependency which can be mitigated by diversifying suppliers, as well as the risk of delivery delays by mitigating the allocation of receiving units supplied by nearby manufacturers. There are a total of 33 risk mitigations that have been validated by experts.