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Analisis dan strategi mitigasi risiko Rantai pasok pt rapfi
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ABSTRAK

Di tengah tantangan rantai pasok industri petrokimia PT RAPFI belum pernah melakukan analisis risiko rantai pasok dan menyusun mitigasi sistematis. Tujuan penelitian ini untuk menganalisis risiko-risiko yang berpengaruh, menyusun alternatif mitigasi dan rekomendasi strategis sistem rantai pasok yang tangguh dan perlu dikembangkan PT RAPFI . Penelitian didesain dengan pendekatan kualitatif deskriptif dan pengumpulan data observasi, wawancara, dan data kuesioner. Metode analisis yang digunakan adalah *House of Risk* (HOR) dari Pujawan dan Geraldin (2009). Dari hasil wawancara ditemukan 39 kejadian risiko yang terdiri dari 8 risiko transportasi, 7 risiko sistem, 4 risiko produksi, 2 risiko permintaan, 2 risiko perencanaan, 2 risiko penyimpanan, 4 risiko pengadaan, 4 risiko kapasitas, dan 6 risiko gangguan dimana kejadian risiko tersebut disebabkan oleh 32 sumber risiko. Prioritas sumber risiko penyumbang 80% total potensial agregat risiko (PAR) berjumlah 13. Rekomendasi mitigasi yaitu optimasi digital sistem, diversifikasi bahan baku, pemeliharaan rutin dan prediktif. Implikasi strategis untuk manajemen PT RAPFI melalui eksplorasi pemasok bahan baku , *coopetition*, transformasi pengambilan keputusan operasi berbasis data, dan transformasi pemeliharaan prediktif. Hasil identifikasi risiko dan mitigasi dari metode HOR bermanfaat sebagai basis praktisi penilaian risiko PT RAPFI dan perkembangan teori strategi pertahanan rantai pasok industri sejenis menghadapi tantangan baru dan kompleks.

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Kata kunci: risiko, mitigasi, PT RAPFI, rantai pasok, strategi, sistem digital.

ABSTRACT

Amidst the challenges of the petrochemical industry supply chain, PT RAPFI has never conducted a supply chain risk analysis and systematically developed mitigation. The research aim to analyze the risks that influence, develop mitigation alternatives and recommend a robust supply chain system strategy to be developed by PT RAPFI. The research was designed with a descriptive qualitative approach and data collection from observations, interviews, and questionnaires. The analysis method used is the House of Risk (HOR) from Pujawan and Geraldin (2009). From the interview results, 39 risk events were found consisting of 8 transportation risks, 7 system risks, 4 production risks, 2 demand risks, 2 planning risks, 2 storage risks, 4 procurement risks, 4 capacity risks, and 6 disruption risks where these risk events were caused by 32 risk sources. The priority of risk sources contributing 80% of total aggregate risk potential (PAR) summed as 13. Mitigation recommendations were digital system optimization, raw material diversification, routine and predictive maintenance. Strategic implications for PT RAPFI's management include raw material supplier exploration, coopetition, data-driven operational decision-making transformation, and predictive maintenance transformation. The risk identification and mitigation results from the HOR method are useful as a basis for PT RAPFI's risk assessment practitioners and enhance theory of industrial supply chain sustainability strategies as they face new and complex challenges.

Keywords: risk, mitigation, PT RAPFI, supply chain, strategy, digital system.