

ABSTRAK

ANALISIS MITIGASI RISIKO RANTAI PASOK AIR MINUM DALAM KEMASAN (AMDK) MENGGUNAKAN METODE *HOUSE OF RISK* (HOR) DAN *FUZZY LOGIC* (Studi Kasus : PT. CIRILL INDONESIA)

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PT. Cirill Indonesia merupakan perusahaan distribusi Air Minum Dalam Kemasan (AMDK). Penelitian ini bertujuan untuk mengidentifikasi aktivitas rantai pasok dan menganalisis prioritas risiko yang terjadi dalam aktivitas rantai pasok AMDK serta memberikan usulan mitigasi risiko rantai pasok untuk meminimasi kejadian risiko pada PT. Cirill Indonesia. Penelitian ini menggunakan pendekatan *Supply Chain Operation Reference* (SCOR), metode *House of Risk* (HOR) dan *Fuzzy Logic* untuk menentukan agen risiko prioritas yang akan dilakukan mitigasi risiko pada PT. Cirill Indonesia. Pendekatan SCOR ini berfungsi untuk memetakan aktivitas rantai pasok. Selanjutnya dilakukan penilaian setiap kejadian risiko, penyebab risiko dan hubungan antara kejadian risiko dan penyebab risiko untuk mendapatkan prioritas agen risiko menggunakan HOR fase 1 dibantu dengan metode *Fuzzy Logic* untuk menangani perbedaan terhadap penilaian risiko antar responden. Selanjutnya dilakukan perancangan strategi aksi mitigasi risiko dan menentukan aksi mitigasi risiko prioritas menggunakan HOR fase 2. Berdasarkan hasil identifikasi, terdapat 22 kejadian risiko dan 27 penyebab risiko dengan 3 *Risk Agent* prioritas yang menjadi fokus mitigasi. Dari hasil analisis tersebut, dirancang 10 strategi aksi mitigasi risiko rantai pasok yang kemudian disusun berdasarkan tingkat prioritas untuk diusulkan kepada PT Cirill Indonesia.

Kata Kunci: Mitigasi Risiko Rantai Pasok, SCOR, HOR, *Fuzzy Logic*.

ABSTRACT

RISK MITIGATION ANALYSIS OF PACKAGED DRINKING WATER SUPPLY CHAIN USING HOUSE OF RISK (HOR) METHODS AND FUZZY LOGIC (Case Study: PT. CIRILL INDONESIA)

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PT. Cirill Indonesia is a bottled water distribution company. This study aims to identify supply chain activities and analyze risk priorities that occur in AMDK supply chain activities, as well as provide supply chain risk mitigation proposals to minimize risk incidents at PT. Cirill Indonesia. This study uses the Supply Chain Operation Reference (SCOR) approach, the House of Risk (HOR) method, and Fuzzy Logic to determine the priority Risk Agents for risk mitigation at PT. Cirill Indonesia. The SCOR approach is used to map supply chain activities. Next, each Risk Event, risk cause, and the relationship between Risk Events and risk causes were assessed to obtain priority Risk Agents using HOR phase 1, assisted by the Fuzzy Logic method to handle differences in risk assessment between respondents. Next, a risk mitigation action strategy was designed and priority risk mitigation actions were determined using HOR phase 2. Based on the identification results, there were 22 Risk Events and 27 risk causes with 3 priority Risk Agents that became the focus of mitigation. From the analysis results, 10 supply chain risk mitigation action strategies were designed which were then arranged based on priority level to be proposed to PT Cirill Indonesia.

Keywords: *Supply Chain Risk Mitigation, SCOR, HOR, Fuzzy Logic.*