DESIGNING SUPPLY CHAIN RISK MITIGATION STRATEGY AT PT ATLAS COPCO NUSANTARA USING HOUSE OF RISK METHOD

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ABSTRACT

Handling risks in the supply chain is the most important thing to maintain continuity of supply chain activities and the activities of the company in general. The number of potential risks that occur in the supply chain activities requiring more effective and efficient treatment.

Risks are identified from the business processes based on SCOR. Identified risk analysis is then analyzed using the HOR method in order to identify high risks that occurs and later identifies the risk prevention measures.

This study is intended to identify the potential risk events, risk agents that cause the potential risk events and also to obtain the correlation between the potential risk events and risk agents that occurs in the company. The results will then be used with the preventive measures, to minimize the risk agents, where the strategy mitigation will be carried out by the company.

From the analysis, there are 6 (six) potential risk agents, and they are significant increase in demand, shortages in supply capacity, Purchase Requesition (PR) urged from the user, the dependence on a single supplier, custom clearance problems and the non-timely arrival ships. Based on the above causes, there were 7 (seven) significant preventive measures acquired, among which to build a distribution center to stock critical (strategic) goods, implementing a better Standard Operating Procedure (SOP) by providing appropriate Reward and Punishment, demand forecasting and inventory planning done jointly (collaborative), the integration between the functions within the company improved, cross-stock fulfillment conducted (cross-fulfillment) from another warehouse, empowering employees to be able to do multitasking work, the fulfillment of goods in the warehouse is done dynamically, follow the condition of the items (fast moving, slow-moving and obsolete).

Keywords: risk agents, risk events, risk mitigation strategy, supply chain risk, HOR.