

ABSTRACT

Supply Chain Management is a strategy for companies because it is a factor in building and maintaining competitive advantage. Companies as business organizations are included in an environment full of uncertainty. Various factors from the environment, consumers, intermediaries, competitors and other factors will have a positive or negative influence on the company. PT Hariff Daya Tunggal Engineering is a leading technology innovator company in Indonesia for Power Systems, Defense, Digital Transformation and Environmental Industries which was founded in 1982 as a communications system integration services company specializing in communications projects, HF, VHF and UHF. During its journey, the company experienced several risk incidents or obstacles that occurred in the Rectifier Battery production supply chain activities, including changes in customer demand which sometimes changed suddenly both in terms of product type, in terms of quantity, design and delivery time, delays in the arrival of materials from suppliers or vendors and material damage and non-compliance with specifications, this has an impact on changes to the production schedule which can result in the risk of not achieving the installation target. Therefore, it is important to manage risks and carry out mitigation plans for risks that exist in the company. This research aims to design risk mitigation strategies and design key risk indicators as an early warning system that can be used as a guide for companies in minimizing potential risks. The method used in this research is House of Risk (HOR) to identify, determine dominant risks, and design mitigation strategies. Then an analysis will be carried out from the dominant risk to determine the threshold value of the Key Risk Indicator indicator. The results of this research show that there are 29 risk events and 31 risk agents that influence the company's supply chain. Of the 31 risk agents, 14 were found to be priority or dominant risk agents and 8 preventive actions that could be taken. The priority risk agent used by KRI is changes in product demand by customers. In the KRI, it was found that the lower threshold value was 1 time and the upper threshold value changed 5 times.

Keywords: *Supply Chain, Risk, SCOR, House of Risk, Key Risk Indicator*