MULTI-ECHELON DISTRIBUTION NETWORK
DESIGN FOR MULTI-PRODUCT
PT. GOLD COIN SURABAYA

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ABSTRACT

Distribution network configuration in a supply chain regulates the allocation of the number and location of suppliers, production facilities, distribution centers, warehouses and customers. This distribution network configuration is expected to achieve optimization of cost or cost minimization. In this final project the implementation of multi-echelon distribution network design for multi-product products will be adjusted to the conditions at company PT GOLD COIN Surabaya. The method which is the writer used in the Final Project is an Mixed Integer Linear Programming (MILP) using Lingo software. This company plans to open several new warehouses. By implementing this model, companies can determine where the optimal warehouse to be opened, the product allocation for each warehouse which was opened. The next step is to conduct sensitivity analysis on the results of these configurations. sensitivity analysis conducted to determine how long this policy is ongoing.

Keywords : Distribution, LINGO, Mixed Integer Linear Programming, and Supply Chain.
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