

# Kajian Optimasi Gudang Distribusi Milik Produsen Pada Sistem Distribusi Pupuk Bersubsidi (Studi Kasus Pt. X) = Study on The Optimization of Producer's Distribution Warehouse in The Subsidized Fertilizer Distribution System (Case Study PT. X) .

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## Abstrak

Penelitian ini bertujuan menganalisa sistem distribusi pupuk bersubsidi pada PT. X perihal penentuan lokasi fasilitas distribusi dengan menggunakan metode Location Problem berdasarkan biaya total yang terdiri dari biaya transportasi dan biaya sewa gudang. Penelitian dilakukan dengan menganalisa penentuan lokasi gudang milik produsen dengan beberapa skenario optimasi. Hasil penelitian ini menunjukkan bahwa sistem yang diusulkan dapat mengurangi biaya total sebesar 85% - 91%, dan ketika biaya satuan satuan hasil prediksi bias -20% biaya total bisa berkurang sebesar 74% - 78% sedangkan ketika biaya satuan bias +20%, biaya total berkurang sebesar 87% - 91% dari biaya total eksisting. Berdasarkan hasil optimasi tersebut dapat disimpulkan bahwa sistem distribusi pupuk bersubsidi yang sudah ada masih bisa diperbaiki dalam hal penentuan lokasi fasilitas distribusinya.

.....This study analyzed the distribution systems managed by PT. X using the fixed charged location problem model by analyzing the location warehouses based on the total cost which consist of transportation cost and the producer's warehouse rental cost. The result of the optimization shows that the proposed systems may reduce the total cost to 85% - 91% of the existing. When the prediction of the transportation unit cost of the proposed links are biased -20%, the cost may reduce to 74% - 78% of the existing.while the biased are +20% it comes to 87% - 91% of the existing. From the result, we can conclude that the existing systems can be improved in therms of restructuring the warehouses number and location.