

Penerapan Lean Warehousing pada Upstream Halal Supply Chain Industri Fast Moving Consumer Goods (FMCG) dengan Metode Value Stream Mapping = Implementation of Lean Warehousing in Upstream Halal Supply Chain of Fast Moving Consumer Goods (FMCG) Industry using Value Stream Mapping Method

Lilia Putri Aisyah, author

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=9999920574342&lokasi=lokal>

Abstrak

Halal supply chain merupakan rangkaian proses pengadaan, produksi, penyimpanan, dan distribusi sesuai standar untuk menjamin kehalalan suatu produk sehingga proses yang dilewati menjadi lebih kompleks. Persaingan ketat industri fast moving consumer goods (FMCG) membuat PT. X harus melakukan efisiensi operasional untuk memastikan permintaan pelanggan terpenuhi secara optimal yang menjadi tantangan besar di tengah keterlambatan produksi. Gudang bahan baku dituntut untuk merespon permintaan produksi secara cepat dan responsif untuk menjamin ketepatan waktu yang menjadi titik kritis efisiensi proses upstream supply chain. Penelitian ini bertujuan untuk menerapkan konsep lean warehousing dengan mengurangi pemborosan pada pengelolaan gudang bahan baku yang dilakukan dengan metode Value Stream Mapping (VSM). Penerapan metode VSM menghasilkan beberapa rencana perbaikan meliputi penerapan RFID, integrasi database, conveyor belt, perubahan layout, modifikasi urutan proses, dan penerapan 5S. Hasil penelitian menunjukkan penurunan cycle time hingga 47%, NNVA menjadi 5%, dan penghilangan NVA.Halal supply chain is a series of sourcing, production, storage and distribution processes according to standards to ensure the halalness of a product, so the process that goes through becomes more complex. The fierce competition in the fast moving consumer goods (FMCG) industry makes PT X must carry out operational efficiency to ensure that customer demand is optimally met, which is a big challenge in the midst of production delays. The raw material warehouse is required to respond quickly and responsively to production requests to ensure timeliness, which is a critical point of efficiency in the upstream supply chain process. This study aims to apply the concept of lean warehousing by reducing waste in the management of raw material warehouses through the Value Stream Mapping (VSM) method. The application of the VSM method resulted in several improvement plans, including the application of RFID, database integration, conveyor belts, layout changes, process sequence changes, and the application of 5S. The results showed a reduction in cycle time to 47%, NNVA to 5%, and elimination of NVA.