

Penerapan Lean Warehousing untuk Mengurangi Waktu Proses Gudang Perangkat Infrastruktur Kelistrikan pada Perusahaan 3rd Party Logistic = Implementation of Lean Warehousing to Reduce Warehouse Process Time for Electrical Infrastructure Devices at a 3rd Party Logistics Company

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Abstrak

Lean warehousing adalah konsep perbaikan yang berfokus pada penghilangan pemborosan dalam proses pergudangan untuk menciptakan nilai tambah pada barang dan jasa. Salah satu metode lean warehousing yang sering digunakan adalah Value Stream Mapping (VSM), yang dapat diterapkan di berbagai industri. VSM membantu memetakan aliran material dan informasi dalam proses pergudangan untuk mengidentifikasi dan menghilangkan pemborosan serta meningkatkan efisiensi proses. Target peningkatan rasio elektrifikasi di Indonesia mendorong PT XYZ, sebuah perusahaan logistik yang terlibat dalam distribusi perangkat infrastruktur kelistrikan, untuk meningkatkan efisiensi proses bisnisnya. Dalam hal ini, konsep lean warehousing dan metode value stream mapping digunakan untuk mengidentifikasi dan mengeliminasi pemborosan dalam proses pergudangan PT XYZ, sehingga meningkatkan efisiensi proses dari segi waktu. Penerapan metode value stream mapping menghasilkan beberapa rencana perbaikan, yaitu penerapan lean 5S, perbaikan tata letak gudang, dan digitalisasi proses pergudangan. Hasil penelitian menunjukkan bahwa dalam proses pergudangan terjadi penurunan waktu proses sebesar 42.54% dan peningkatan total value added ratio sebesar 25.37%.

.....Lean warehousing is an improvement concept that focuses on eliminating waste in warehousing processes to create added value for goods and services. One of the commonly used lean warehousing methods is Value Stream Mapping (VSM), which can be applied across various industries. VSM helps map the flow of materials and information in warehousing processes to identify and eliminate waste and enhance process efficiency. The target to increase the electrification ratio in Indonesia has driven PT XYZ, a logistics company involved in the distribution of electrical infrastructure devices, to improve the efficiency of its business processes. In this context, the concept of lean warehousing and the value stream mapping method are used to identify and eliminate waste in PT XYZ's warehousing processes, thereby increasing process efficiency in terms of time. The application of the value stream mapping method resulted in several improvement plans, including the implementation of lean 5S, warehouse layout improvements, and the digitization of warehousing processes. Research results show that in the warehousing process, there was a reduction in process time by 42.54% and an increase in the total value-added ratio by 25.37%.