

Abstrak

Septiyan Putra Pratama, 2021, Perancangan Tata Letak Fasilitas Ulang (*Relayout*) Divisi Packaging & Warehouse di Pt. XYZ di Sidoarjo, Skripsi, Program Studi : Teknik Industri, Fakultas Teknologi Industri Universitas PGRI Adi Buana Surabaya, Dosen Pembimbing : Indra Dwi Febriyanto, ST., MT.

Pengaturan tata letak pabrik merupakan masalah yang sering dijumpai bahkan tidak dapat dihindari dalam dunia industri seperti pada Departemen Packaging & Warehouse Pt. XYZ di Sidoarjo.. Penelitian ini bertujuan untuk mengetahui permasalahan tata letak fasilitas serta memberikan rancangan tata letak fasilitas baru bagi Departemen Packaging & Warehouse di Pt. XYZ di Sidoarjo. Penelitian ini menggunakan metode *Systematic Layout Planning (SLP)* yang di gunakan untuk meminimalisir total jarak perpindahan pada saat produksi di Departemen Packaging & Warehouse. Berdasarkan penelitian ini dapat di ketahui permasalahan yang ada pada Departemen Packaging & Warehouse adalah pola aliran bahan dari packaging ke warehouse dan warehouse ke pengiriman bahan baku. selain itu adanya kolam bekas yang tidak digunakan berada di area warehouse mengakibatkan sempitnya area warehouse. Perbaikan tata letak fasilitas pada Departemen Packaging & Warehouse menggunakan *Systematic Layout Planning (SLP)* menghasilkan pola aliran bahan yang lebih teratur. Dapat di lihat pada penelitian ini bahwa layout usulan lebih efisien sebesar 48% di dasari pada jarak awal 56,53 meter menjadi 29,26 meter sehingga analisis tata letak fasilitas menggunakan metode *Systematic Layout Planning (SLP)* ini di nilai berhasil membuat total jarak tempuh pada Departemen Packaging & Warehouse Pt. XYZ di Sidoarjo lebih efektif dan efisien.

Kata Kunci: Perancangan tata letak fasilitas, Divisi Packaging & Warehouse, *Systematic Layout Planning*.

Abstract

Septiyan Putra Pratama, 2021, Relayout Design for Packaging & Warehouse Division at Pt. XYZ in Sidoarjo, Final Project, Study Program :Industrial Enggineering PGRI Adi Buana University Surabaya, Supervisor : Indra Dwi Febriyanto, ST., MT.

Factory layout arrangement is a problem that is often encountered and even unavoidable in the industrial world such as in the Department of Packaging & Warehouse Pt. XYZ in Sidoarjo. This study aims to determine the problem of facility layout and provide a new facility layout design for the Packaging & Warehouse Department at Pt. XYZ in Sidoarjo. This study uses the Systematic Layout Planning (SLP) method which is used to minimize the total distance of movement during production in the Packaging & Warehouse Department. Based on this research, it can be seen that the problems that exist in the Packaging & Warehouse Department are the pattern of material flow from packaging to warehouse and warehouse to delivery of raw materials. In addition, there is a used pond that is not used in the warehouse area, resulting in a narrow warehouse area. Improvements to the layout of facilities in the Packaging & Warehouse Department using Systematic Layout Planning (SLP) resulted in a more regular pattern of material flow. It can be seen in this study that the proposed layout is more efficient by 48% based on the initial distance of 56.53 meters to 29.26 meters so that the facility layout analysis using the Systematic Layout Planning (SLP) method is considered successful in making the total distance traveled to the Department Packaging & Warehouse Pt. XYZ in Sidoarjo is more effective and efficient.

Keywords: Facility layout design, Packaging & Warehouse Division, Systematic Layout Planning.