

ABSTRAK

Tata letak gudang dapat diartikan sebagai tata cara pengaturan material-material dengan memanfaatkan luas area yang ada untuk menunjang kelancaran dalam proses produksi. Tata letak gudang sparepart area m4 pada PT. Indah Kiat Pulp & Paper berdasarkan pengamatan dimana material sparepart ditempatkan secara acak dan tidak memperhatikan jenis ataupun frekuensi perpindahan material. Dengan begitu operator akan mengalami kesulitan dalam pencarian material dan membuang-buang waktu terlalu lama. Class Based Storage adalah salah satu metode penyimpanan material pada gudang yang berguna untuk mengatur penempatan material berdasarkan jenis dan frekuensi. Dengan menerapkan metode Class Based Storage akan mendapatkan pengurangan total jarak perpindahan sparepart dan biaya dari material handling planning sheet. Dengan pengolahan data menggunakan tools seperti ARC, ARD, AAD dan MHPS, tata letak usulan mendapatkan penurunan total jarak pemindahan sebesar 555,25 meter dan biaya sebesar Rp. 321.058 /bulan.

***Kata Kunci:* Class Based Storage, Jarak Perpindahan Material, ARC, ARD, AAD, MHPS**

ABSTRACT

The layout of the warehouse can be interpreted as a procedure for managing materials by utilizing the existing area to support the smooth process of production. The layout of the spare part area m4 at PT. Indah Kiat Pulp & Paper is based on observations where spare parts are placed randomly and does not pay attention to the type or frequency of material movement. That way the operator will have difficulty in finding material and wasting too much time. Class Based Storage is one method of storing materials in a warehouse that is useful for managing the placement of materials based on type and frequency. By applying the Class Based Storage method will get a reduction in the total distance of spare part movement and the cost of the material handling planning sheet. By processing data using tools such as ARC, ARD, AAD and MHPS, the proposed layout gets a reduction in the total displacement distance of 555.25 meters and a cost of Rp. 321,058 / month.

Keyword : Class Based Storage, Jarak Perpindahan Material, ARC, ARD, AAD, MHPS