

**PERANCANGAN TATA LETAK FASILITAS DENGAN
MENGUNAKAN METODE *ACTIVITY RELATIONSHIP CHART* (ARC)
(STUDI KASUS : PT. SANG PLASTIK INDONESIA KEC DRIYOREJO
KAB GRESIK)**

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ABSTRAK

Tata letak fasilitas mempunyai pengaruh yang besar terhadap pengaturan fasilitas dalam perusahaan guna menunjang proses produksi. Pada penelitian ini perbaikan tata letak dilakukan di PT. Sang Plastik Indonesia yang bergerak di bidang pengolahan plastik sehingga terdapat aturan khusus pada beberapa departemen yang tidak boleh saling berdekatan agar tidak terjadi kontaminasi. Sebagian besar fasilitas di perusahaan belum tertata secara optimal karena tidak adanya *Plan layout*. Melalui Metode *Activity Relationship Chart* (ARC) dengan menggunakan tabel ARC, *Worksheet*, *Block Template*, *Activity Relationship Diagram* (ARD), *Total Space Requirement Sheet*, *Area Template*, *Area Allocation Diagram* (AAD). Didapatkan hasil perbandingan total waktu keseluruhan proses produksi layout sebelumnya atau layout lama yaitu 125 detik, sedangkan total waktu keseluruhan proses produksi sesudah atau layout usulan yaitu 53 detik. Sehingga layout yang di usulkan lebih efektif karena menghasilkan pola aliran dilantai produksi pembuatan plastik lebih teratur dengan baik dan menghasilkan jarak tempuh antar fasilitas satu dengan fasilitas lainnya lebih dekat dan lebih ideal, sehingga dapat memperpendek waktu proses produksi plastik tersebut.

Kata Kunci : *Activity Relationship Chart* (ARC), Tata Letak Fasilitas

ABSTRACT

The layout of the facility has a great influence on the arrangement of facilities within the company to support the production process. In this study, the layout improvement was carried out at PT. Sang Plastik Indonesia is engaged in plastic processing so there are special rules for several departments that should not be close together so that contamination does not occur. most of the facilities in the company have not been arranged optimally due to the absence of a plan layout. Through the Activity Relationship Chart (ARC) method using ARC tables, Worksheets, Block Templates, Activity Relationship Diagrams (ARD), Total Space Requirement Sheets, Area Templates, Area Allocation Diagrams (AAD). The results of the comparison of the total time of the entire production process of the previous layout or the old layout are 125 seconds, while the total time of the entire production before the proposal layout is 53 seconds. So that the proposed layout is more effective because it produces a flow pattern on the production floor of plastic manufacture that is more well organized and produces closer and more ideal travel distances between facilities and other facilities, so as to shorten the time of plastic production.

Keywords: Activity Relationship Chart (ARC), Facility Layout