

## **ABSTRAC**

### **PRODUCTION FACILITY PROPOSED LAYOUT PT. UBIN KERAMIK KEMENANGAN JAYA (UKKJ) SYSTEMATIC METHOD USING LAYOUT PLANNING (SLP) AND APPLICATION SOFTWARE BLOCPLAN**

PT. Ubin Keramik Kemenangan Jaya victory is manufacture engaged in producing industrial ceramics, ceramics produced diverse specifications of each model and customized products through research and development of products according to consumer demand. During these problems have problems due to production activity layout condition which is not yet standardized in accordance with the criteria of a good layout path length caused much material handling and material flow intersection, causing the cost of material handling (OMH) is greater.

Evaluation and design of plant layout aims to design the layout improvements that can be leveraged by both area and produce a smooth flow of materials so as to reduce material handling costs. Designing plant layout is done at the entire facility production department using the systematic layout planning (SLP) with the help of software programs BLOCPLAN. This method requires a linkage map activity relationships or ARC (Activity Relationship Chart).

Based on the analysis of the calculation software program produced 10 alternative layouts BLOCPLAN proposal. The next step, the proposed layout chosen based on the value of R-highest score layout. For proposals selected layout has a value of R-score 0.95, mean best of 10 alternative layout proposed. With the implementation of the proposed layout, then there is a reduction in material handling costs from Rp 445,828 (initial layout) to Rp 443,544 (layout proposal) there was a decrease of 1%.

Keywords: Facility Layout, Systematic Layout Planning, From To Chart, Material Handling, Blocplan