

ABSTRACT

PT Distributors FMCG is a warehouse containing FMCG products are included in the 3PL company in distributing the goods. This study focuses on PT Distributors FMCG warehouse located in the city for distribution to the city of Bandung, Bandung Regency and West Bandung. Based on the KPI's existing warehouse has a time delay that occurs in the process of picking. This delay is caused due to the activity which is not required such as searching and searching sku sku storage area. Moreover, product placement is done randomly cause the storage of the product becomes irregular, this makes the operator delayed when the customers ordering goods.

The first step is mapping the flow of goods and information in the warehouse with the current state design and process activity mapping to depict the flow of activity in more detail. In value stream mapping NVA greatest there is in the picking activity. Therefore this problem can be solved by classifying products by FSN analysis and perform slotting and zonafication to determine the area of product placement based on the classification and the shortest distance from the I/O. After that simulate traveling using output analysis and comparison system.

Based on the results of future state mapping, can lower the total time of the whole process warehouse activities of 6064.15 seconds to 5432.67 seconds or reduced by 10% under standard time. For picking activity decreased by 20.8% from 1864.31 seconds of curent state becomes 1476.82 seconds, where the company's standards for picking activity is 1500 seconds. This study was done to make the operator work easier in the process of storing and picking in the warehouse.

Key Word : *FSN Analysis, Value Stream Mapping, Zonafication.*