

ABSTRACT

Bank Sampah Bersinar (BSB), that located in Terusan Bojongsoang Street Number 174, Baleendah, Bandung Regency, West Java is the main waste bank for Kabupaten Bandung areas. The distance between the warehouse and the place of goods delivery which is far away makes the process even longer. Backtracking is also a problem in this research. Backtracking that occurs causes an increase in the amount of material movement that will have an impact on the company's operating costs. According to that issues, this research will improve the layout using the BLOCPLAN algorithm to minimize the distance of material movement. The research output is an proposed layout design to minimize the distance of material movement from 601 m to 537.18 m, while the total distance of material movement in the current layout was 601 m so we can conclude that improving layout using BLOCPLAN methods can reduce the total distance of material movement by 56.82m or 9.6%.

Keywords: *BLOCPLAN, Waste Bank, Facility Layout, Distance of Material Movement*