

PROGRAMMING OF THE CONSTRUCTION OF THE THIRD RING OF ANCHORED WALLS OF A BUILDING APPLYING THE BALANCING LINES METHOD

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ABSTRACT

In the construction industry, planning and controlling the construction schedule are important, because mistakes are made in the initial scheduling of the project, as during the execution of the work delays are generated between activities using conventional methods such as CPM and PERT by inefficient time management. In this research work, the benefits in time management were determined by applying the programming by Balance Lines (LOB), in the construction of anchored walls of the third ring of a building, given that this method facilitates the visualization of activities in the schedule, which helps to identify conflicts between tasks before they are performed. We analyzed the velocities and yields of data obtained from the real and target schedules carried out with the LOB method, to analyze the difference in velocities representing it in percentages, where we evaluated those sectors and activities that generate delays or advances in the schedule. Based on the results obtained, the LOB method improved time management by 3.57% in relation to velocities, employing improvements in the ratio and labor through the control of the schedule by percentages of progress of the activities relative to what was planned. In addition, a flow chart was implemented for a better application of the LOB, in the control of the process of the activities of anchored walls, this unlike previous studies.

Keywords: Line, Balancing, LOB, Schedule, Time, To Plane, Control.

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