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ABSTRACT

PT.DCM is a company engaged in the field of telecommunications construction that builds fiber optic network networks. PT.DCM runs a fo-sr ducting project located in Summarecon Bandung. In the implementation of the project, ducting for 8 weeks has a problem that is not achieving the project planning target. This is because there is no good control of the project when the project takes place. This can be seen from the difference in the S curve between planning and actual. Due to the failure to achieve planning, performance calculations are carried out using the EVM method. In EVM, earned value analysis, variance analysis, performance index analysis and forcasting will be carried out. The final output forcasting shows how long the project can be completed when the project is running. The results of the ECD show that the project will be completed in the 15th week. From the EVM calculation, the project is experiencing delays, therefore productivity calculations are carried out using the TCTO method. In the TCTO calculation of productivity (daily, normal, acceleration), duration of crash calculation, crash cost, cost slope and optimum time and cost analysis will be calculated. Calculation of TCTO is that with the addition of working hours or overtime, productivity during overtime decreases due to limited visibility due to dark night conditions. From the calculation of TCTO, duration duration was 93 days or 14 weeks with a crash cost of Rp. 16,058,483.

Keywords: EVM, TCTO