

ABSTRACT

PT. XYZ is a contractor company that still has lack in the process of monitoring and controlling projects in real time which causes an incompatibility between the planning time and the actual time. To avoid these problems in ABC project that currently being worked on by PT. XYZ, it is necessary to improve the project monitoring and controlling process which is carried out by designing spreadsheet-based monitoring and controlling dashboard to analyze project performance with Earned Value Management Method. The EVM method is a method in project management that is used to measure project performance using time and cost aspects. The data used in this research are project charter, scope baseline, project schedule and budget plan. From the results of the monitoring and controlling dashboard usage analysis of the project monitoring and controlling process, it was found that the dashboard can assist project managers in carrying out the process of monitoring and controlling projects in real time so that if there are incompatibility, they can immediately evaluate improvements. The results of the performance index analysis show that the project's performance on the ABC project is still not good, where at week 16 the CPI and SPI values for the project are 0.94 and 0.85. Both values can be interpreted that the costs incurred are greater than planning and the implementation time is longer than planning. The result of the calculation of the estimated cost for project completion is Rp. 2,423,695,294 with an estimated completion time of 21 weeks which indicates that there is an additional 3 weeks of completion. This delay was caused by various factors, namely project planning that was less detailed, changes to the project shop drawings and mismatch of material delivery times.

Keywords: Project Monitoring and Controlling, Earned Value Management, CPI, SPI, Project Performance, Dashboard.