ANALYSIS OF PROJECT SCHEDULING USING THE PRECEDENCE DIAGRAM METHOD (PDM) ON THE MAIN BUILDING WORK OF THE BRIN SUBANG APPROPRIATE TECHNOLOGY (TTG) BUILDING CONSTRUCTION PROJECT

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ABSTRACK

The construction of the Main Building for Appropriate Technology (TTG) of the Subang National Research and Innovation Agency (BRIN) is part of BRIN's development to increase discoveries, breakthroughs and renewal of science and its use in realizing the nation's competitiveness. This project experienced delays which caused the project not to be completed on time. Good construction management is necessary for the smooth running of the project and proper time control. Therefore, this research aims to evaluate time using the Precedence Diagram Method (PDM) in order to determine optimal project completion and compare it with the S Curve. The formulation of this research includes analysis of project scheduling using the PDM method, project duration, and time comparisons between methods. PDM with S Curve planning. This research aims to design project scheduling using the PDM method, compiling schedules using Microsoft Project, compiling PDM diagrams, calculating duration and evaluating project scheduling using the PDM method compared with S Curve planning. The results of the research show that scheduling planning uses the method PDM is able to make project scheduling more effective. The estimated duration using the PDM method is 191 days. Construction of the TTG Main Building using S Curve planning took 202 days. There is a difference in implementation time of 11 days faster.

Keywords: PDM Method, Planning, Scheduling, Project, Duration