

**Project Scheduling Analysis Using Critical Path Method (CPM),
Program Evaluation and Review Technique (PERT) and
Precedence Diagram Method (PDM)
(Case Study: Sindang Heula Dam Construction Project)**

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ABSTRACT

Network diagrams or networks are a technique used to plan, schedule and supervise the work activities of a project. The network is in the form of a working network that contains the trajectories of activities and the sequence of events that exist during the project. There are several techniques or methods used in writing network diagrams, namely Critical Path Method (CPM), Program Evaluation and Review Technique (PERT) and Precedence Diagram Method (PDM)

The study was conducted to determine the strengths and weaknesses of the Critical Path Method (CPM) method, Evaluation and Review Technique (PERT) Program and Precedence Diagram Method (PDM) in the Sindang Heula Dam Development project by comparing the duration between the existing scheduling of the Sindang Heula Dam Project using the method network diagram.

The results of this research are using the network diagram method for the duration of the Sindang Heula Dam Construction project which is 1127 days with a possible completion of 63.86%, 3 days faster than the existing existing schedule of 1130 days.

Keywords: Network Diagram, CPM, PERT, PDM