

Independent Study Title	A Study of Factors Causing Delays in Dam and Irrigation Construction using Analytic Hierarchy Process.
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### Abstract

Dam and irrigation projects are large scale infrastructure projects. The delays of these large scale projects can have a multitude of impacts on the involved parties and beneficiaries of projects such as the general population and business owners. There are numerous factors that cause delays in all stages of a project. This research studied the factors which occurred during the construction phase and caused the delays of the projects. The Analytic Hierarchy Process (AHP) was applied to logically differentiate the analogous factors. The results of the study showed that the most influential factor was work correction which resulted in the increase of construction cost. The second most influential factor was inappropriate arrangement of organization and the inappropriate assignment of personnel to a task. The mentioned results were derived from the comparison of 18 delay-causing factors. The results could be used as a guideline for participants in planning and monitoring future dam and irrigation projects.

Keywords: Analytic Hierarchy Process / Construction / Dam / Delay / Irrigation