

生態工程設計原則應用於施工成本分析之研究

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摘要

Abstract

Because of the influence of idea of eco-engineering design and construction, the river dredging in Taiwan starts to emphasize on ecological methods; however, under the consideration of practical situation in Taiwan, there are still many arguments in the execution. Furthermore, most of the evaluations on eco-engineering are based on environmental condition and biological investigation, and rarely reviewed from the viewpoints relevant to cost analysis of construction. This research supposes there are some correlation between construction cost and eco-engineering design from the cost analysis. Firstly, to arrange the design principles of eco-engineering and based on the framework of construction cost to discuss the correlative factors between both of the eco-design principles and the construction cost, and take use the basis for cost analysis. Moreover, the cases of eco-engineering in Taiwan were also been studied to discuss the execution degree of ecological engineering here. The purpose of this research is to establish the cost analysis framework that based on the design principle of eco-engineering, and used as a method to evaluate the river dredging works.

關鍵字 : Keywords: Eco-engineering, Eco-engineering Design principle, Cost analysis.