## THE DESIGN AND CONSTRUCTION OF TUNNELS

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## **ABSTRACT**

This project title is the design and construction of tunnel. Due to the growth of urban communities, the demand of underground structure is increasing rapidly. Tunnels are underwater and underground facilities that play a key role in hydro-electric power generation, transportation, nuclear waste storage, mining, and etc. nowadays, about 77% of the total tunnels used to carry water, 15Z% for railway and subway tunnels and 8% for highway tunnels.

This project is concentrated on the study and research on the construction and design methods used to contrast a transportation tunnel. Since this topic is a very wide and complex topic, I had made a decision to choose some subtopic which is more important and interesting.

In this project, it is divided into few chapters. They are containing the site investigation, methods of excavation, support and stabilization, support design, tunnel facility and tunnel in Malaysia.

In each chapter it will describes details in terms of usages, operation skill required, any tasks we need to take into consideration in order to correctly select and perform a good job and etc.