SOIL NAILING FOR SLOPE STABILITY

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ABSTRACT

In the geotechnical engineering world today, there are many possible solutions to prevent landslide to occur. Soil nailing has started to be chosen currently as one of the popular technique for tackling slope stability problem in Malaysia.

Soil nailing technique gains its popularity as one of alternative slope reinforcement technique where it can be applied at both in situ cut slopes and manmade fill slope. This technique has more advantages compare to other conventional reinforced structure such as anchored wall and mechanically stabilize earth wall due to ease of construction, maintenance free and effective in term of stability. However, detail researches are required in order to make a possible real life design and construction.

This report describes comprehensive soil nailing information in term of properties, design and construction of soil nailing. Furthermore, a real study case is proposed as well where the appropriate application of soil nailing is introduced. Geostudio: Slope/W 2007 as a slope stability analysis program will be used to propose a solution to enhance the stability of the slope failure. A detailed methodology will be provided as well to describe meticulous steps to achieve final design of slope stability analysis.