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SLOPE REMEDIAL WORK AT TRANSMISSION LINE IN MANJUNG, PERAK

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ABSTRACT

Slope failures are very common in Malaysia especially during monsoon season where the intensity of rainfall is very high. Slope failure becomes very dangerous if it occurs along the transmission tower, which is the main grid line. The towers can collapse and possibly cause power disruption the whole Malaysia due to slope failure. Therefore, slope remedial work must be done immediately within the budget limitation before the towers trip into each other. There are many methods that can be used for slope remedial. The most common methods in Malaysia are soil nailing (for soil slope) or rock bolt (for rock slope), hydroseeding, benching or flattening of slopes, guniting, retaining the slope by using gabion wall and vegetation cover by planting shrubs, grass and trees. Before suggesting the remedial work, slope stability analyses were carried out to calculate the factor of safety of the slope. If the factor of safety is less than 1, then the slope is considered as high risk. Thus, slope remedial is suggested at that area. This paper discuss on the slope remedial work at Manjung as a field study area. The reason for the method used in remedial work and suggestion for slope treatment are discussed in detail in this paper.