STUDY ON SLOPE STABILITY FOR SETTLEMENT IN VILLAGE KLUWIH, VILLAGE PENDOWOREJO, GIRIMULYO DISTRICT, DISTRICT KULON PROGO, Yogyakarta

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Abstract

Most areas in Indonesia is a region of hills and mountains, so it can be easily found on the land sloping hills and mountains. Slopes on sloping land has the potential to experience ground movement such as landslides, One of the areas in Indonesia, namely Vilage Kluwih pendoworejo village. Kluwih Village, village pendoworejo landslides every year with small, medium and large. The conditions need to be considered in order to prevent damages that can be caused by natural disasters or mass movement and rocks such as damage to infrastructure (settlements, roads, educational facilities, and worship) which is located on the hills of the valley. For that we need research on slope stability so that the shear strength of the slope and the safety factor (FK).

The purpose of research with the title is Study Stability Slope To Settlement In the Village Kluwih, Village Pendoworejo, District Girimulyo, Kulon Progo, Yogyakarta is the understanding of the status of slope stability residential area in the Village Kluwih Village Pendoworejo and Knowing the direction of the management direction of the management of the slopes were done in order to remain stable in all residential areas in the Village Kluwih Pendoworejo village. The method used in this study is a survey method, and the method of analysis is the method fellenius and stereonet which aims to determine the condition of the slope against the settlements.

Based on the results of research conducted on the slopes in the study area showed the slopes in the study area is a not steady incline toward settlements with the value of the safety factor (FK) shows the classification not secure. The slope is equal to 0.902 in point 1, 0.997 in point 2, and point 3 is1.05. Conservation efforts in the area of research can be done by engineering the slope geometry using bench terraces (benching). In the form of vegetative management that can be used sengon (*Albizia Chinensis*). Result FK slope after conservation is steady with value point 1 is 1.583, point 2 is 1.755, and point 3 is 1.843

Key Word :Slope Stability, Slope, management, Settlement