

**SOIL MASS MOVEMENT AND/OR ROCK MAPPING AT WATUGAJAH
VILLAGE, GEDANGSARI DISTRICT, GUNUNGKIDUL REGENCY,
YOGYAKARTA SPECIAL REGION**

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ABSTRACT

The research activities carried out at the Watugajah village, Gedangsari District, Gunungkidul Regency, Yogyakarta Special Region. Gunungkidul is one of the potentially areas to landslides, one of which is in the village of Watugajah with a landslide in the form of soil and rock matrial occurring on Friday dated December 5th, 2014.. The purpose of this research is to determine the rate of susceptiability and deployment soil mass movement and/or rock and the type of soil mass movement and/or rock.

The method that used in this research were survey method, mapping, and assessment. The parameters were slope, thickness of soil, infiltration, rock strength, rainfall, land use, and the rate of vegetation.

The results showed that a class of susceptibility in the research area including in medium susceptibility zones soil mass movement and/or rock which has 376 Ha. Type of soil mass movement contained in the study area are *rock fall*, *rock slides* and *debris flow*. Referral management suitable for people in the area of research is to use the technical management directives are the installation of gabion, while the direction of the management is conducted by planting grass vegetative vertiver.

Keywords: mapping, ground movement, susceptiability