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Revealing the Potential of Geotourism and Geoheritage of Gedangsari Area, Yogyakarta

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Abstract : Gedangsari is located in Gunungkidul, Yogyakarta Province, which has several criteria to be used as a new geosite object. The research area is located in the southern mountain zone of Java, composed of 5 rock formations with Oligocene up to Middle Miocene age. The purpose of this study is to reveal the potential of geotourism and the geoheritage to be proposed as a new geosite and to make a geosite map of Gedangsari. The research method used is descriptive data collection and which includes quantitative geological data collection, geotourism, and heritage sites, then supported by petrographic analysis, geological structure, geological mapping, and SWOT analysis. The geological data proved that Gedangsari consists of igneous rock (intrusion), pyroclastic rock, and sediment rock. This condition caused many varieties and particular geomorphological platform. Geotourism that include in Gedangsari are Luweng Sampang Canyon, Gedangsari Bouma Sequence, Watugajah Columnar Joint, Gedangsari Marine Fan Sediment, and Tegalrejo Waterfall. There is also Tegalrejo Village, which can be considered as geoheritage site because of its culture and batik traditional cloth. The results of the SWOT analysis, Gedangsari geosite must be developed and appropriately promoted in order to improve the existence. The development of geosite area will have a significant impact that improve the economic growth of the surrounding community and can be used by the government as base information for sustainable development. In addition, the making of an educational map about the geological conditions and geotourism location of the Gedangsari geosite can increase the people's knowledge about Gedangsari.

Keywords : Gedangsari, geoheritage, geotourism, geosite
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