

The Utilization of Rain Water to Ground Water with Tube in the Area of Tourism in Yogyakarta

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Abstract : Yogyakarta is the famous tourism city in Indonesia. The Tugu Jogja is a tourism center located in Jetis. To support the tourism activities required facilities such as tourist hotel and guest house. The existence of tourism also has an impact on the environment. The surface of the land is covered by cement and a local company dealing in ceramics, then an infiltration process is not running. The existence of the building in layers resulting in the amount of water resource in Jetis decreases. The purpose of this research is to know the impact of the construction of the building in layers in Jetis. To obtain the data done by observation, measurements and taking the land profile, along with the interview to people in Jetis. The results of the study showed that the number of water sources in Jetis, Yogyakarta start decreases as a result of the construction of the building on stilts as a result, the height of the surface of the groundwater decreases and digging a pit must be in to get the source of the waters. Based on the results of research it can be concluded that the height of the surface of the groundwater decreases. To resolve the issue required a method to rainwater can seep into the ground for maximum. The rain that fell upon the precarious houses or other buildings is channeled toward the ground through the tubes with the depth of 1-2 meters. Rainwater will be absorbed into the land and increase the amount of ground water.

Keywords : rain water, tube, water resource, groundwater

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