

OPTIMALISASI TELAGA SEBAGAI UPAYA PENANGGULANGAN KEKERINGAN DI KABUPATEN GUNUNG KIDUL

Handoko

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ABSTRACT

On the dry season, the community of Gunungkidul Regency especially at south zone almost each year has lack of water problem so that have to buy fresh water and using improper quality water. Actually, the region of Gunungkidul Regency have some potential basic water sources to be a solution among other the swamp as much as 263 swamps, which its location spread but the condition of swamp generally have damaged on the patching pond and its facility construction so have to make investigation on optimizing of the swamps use.

This swamp research was done by measuring the situation. The water to the swamp is computed by using rational method, considering that this method is simple and appropriate with the condition in the research location. Furthermore, from the result it was poured at design details for reference on the implementation of rehabilitation.

The measuring result shows that the volume of Tritis Swamp was about 17.534 m³, the area was 1,08 ha and the average of the swamps depth was 3,33 meter. On the rainy season was always full capacity but in the end of rainy season that is on May, water supply of the swamps have large declined, even at the end of July there are not water at the swamps patching pond. The result of design detail and after rehabilitated was the existence of increasing the swamp volume so that reach 39.870,50. m³ or raised 129 % from the existing one. The result after the swamps rehabilitation with design reengineering looked from prediction analysis of water volume fluctuation at the swamp pond indicated the increase of water volume so that at the end of October was still available the water as much as 5,353 m³ and the result after the swamp rehabilitation with design reengineering and the Wind Barrier at the end October there still available the water as much as 7.532 m³ since the existence of micro climate at the swamps area, in which furthermore there are reducing of water volume evaporated about 30 % .

Key word: *Tritis Swamp, Drought, Optimizing.*