Abstract

Pond of Dawung is located in Ngawi Regency, about 190 km to western Surabaya. With catchment area 17.72 km². That area are requiring water at dry season. Pond of Dawung is one of pond using cistern of rain system, so at the dry season for the sake of permanent water of local area resident.

In this case, solution cover of hidrologycal analisys, permanent amount of water required calculation of resident, planning of pond capacities, technical planning, and calculation of pond stabilities. Subdistrict of Dawung own the resident amount of 3847 soul. With the growth rate of resident about 0.8% per year, sum up the resident for the next 25 years projection is about 4695 soul with the amount of water required of equal to 3.58 lt/sc.

From the result of calculation, obtained by technical data of pond Dawung shall be as follow:
- Type: homogen earth fill
- Culminate elevation at the firework : +216.56
- Elementary elevation : +202
- Pond high : 14.56 m
- Volume of pond capacities : 165,451.19 m³
- Upstream inclination : 1:3
- Downstream inclination : 1:2.25

With the making of Pond Dawung is expected to fulfill the permanent amount of water requirement to the resident of Subdistrict Dawung of up to the year 2033 and with the existence of Pond Dawung is the local resident of insufficiency shall no longer at dry season arrive

Keyword: Pond
“Halaman ini sengaja dikosongkan”