# ESTIMATION SIMULATION OF DAM STABILITY

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Indonesia under construction since the 1970s to the present day, especially in the provision of infrastructure building of water for irrigation, have thousands of dam was built. One type of dam holds are built of permanent materials is a dam holds a pair of stone. The purpose of the simulation calculation of the stability of the dam holds is to know the dam holds development planning.

The method was using in the preparation of this final Project is to use the method of observation. The observation is done by means of a method of collecting data is done with the data and procedures see document conditions in the field. riel Obtained Data is (1) floor plan images, (2) the image pieces, the dam holds (3) permeability soil tests in the field, (4) direct shear test of soils, (5) analysis of granular soils, and (6) the data dimension dam holds. The Data collected is analyzed with formulas that are valid in the calculation of the stability of the dam holds.

The results obtained on the basis of an analysis that is done is as follows: the dam holds are safe against seepage (piping) because of the calculation results obtained by WCR = 6.25 & amp; # 707; 3 types of soil clays of WCR software. The dam holds are safe to bolster style because when in review of flood discharge size value larger than the moment of passive-active waterproof style moments so it can withstand the current style. The dam holds the slide style of still safe in the event of flooding because the style that works in vertical and horizontal retrieved SF = 1.65 & amp; # 8805; safety factor which is 1.5 more secure against the dam holds also support power suit against the ground as MPlayer supports are: power & amp; # 963; 1 = (& amp; # 8721;V)/B (6e 1/B) & lt; & amp; # 963; permission and & amp; # 963; 2 = (& amp; # 8721;V)/B (1 & amp; # 8722; 6e/B) & amp; gt; 0.

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