



ANALITY OF MAIN DAM CONSTRUCTION IN LOGUNG DAM PROJECT, KUDUS REGENCY, CENTRAL JAVA PROVINCE

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Abstrack: Main dam is a part of the work on the Logung dam project in the Kudus regency, Central Java which as main water resevoirs. Logung Dam Project itself is located in Slalang, Tanjungrejo Village, Jekulodistrict, Kudus regency which have position at $110^{\circ} 55' 20,27''$ East longitude dan $06^{\circ} 45' 28,38''$ South latitude. While the inundation area entered Sintru, Kandang Mas Village, Dawe districtand Slalang, Tanjungrejo Village, Jekulo district. Analysis of hidrological started with determine area, calculation of rainfall plan and debit mainstay. From the thesis, analysis of hidrological is analysis of rainfall which's started 1970 until 2009 for 40 yeras. The Area of main water reservoirs is 43,81 km² with 3 stations are Gembong, Tanjung rejo and Rahtawu. Debit mainstay is safe on 80% with rising irigation area is 983,55 Ha to 2.183,55 of 1.200 Ha. The result of analysis stability of filtration there's a flow of depression out through downstream so the safety factor for landslide is greater and safe from landslide hazard.

Keyword: *Dam, Maindam,Irigation, Stability*