ABSTRACT

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

Caroline Maurensia Yolanda PN

Department of Diploma III Civil Engineering, Vocational School, Diponegoro University
Semarang, Central Java, Indonesia.
Undip.ac.id

Abstract: Main dam is a part of the work on the Logung dam project in the Kudus regency, Central Java which as main water reservoirs. Logung Dam Project itself is located in Slalang, Tanjungrejo Village, Jekulo district, Kudus regency which have position at 110° 55’ 20,27” East longitude dan 06° 45’ 28,38” South latitude. While the inundation area entered Sintru, Kandang Mas Village, Dawe district and 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 years. The Area of main water reservoirs is 43,81 km2 with 3 stations are Gembong, Tanjungrejo and Rahtawu. Debit mainstay is safe on 80% with rising irrigation 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, Irrigation, Stability