FLOOD CONTROL DUE TO RUNOFF
KALI KUNCIR KANAN NGANJUK REGION EAST JAVA

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Abstract

Kali Kuncir Kanan *located in* Nganjuk, *East Java*. *The river flows along the* 10.3 *miles*. Kali Kuncir Kanan *flowing and lead/meet* kali Kedungsuko *east of town* Sukomoro. *Floods due to runoff in* kali Kuncir Kanan 3111 m *in length or* 31,11 *miles*. *Implementation of this project is the second annual project undertaken in* 2012 *on the budget of the government project*.

Due to the limited capacity of the drainage, if the rainwater that flows into kali Kuncir Kanan *often lead to standing water due to overflowing flood that inundated farmland there*.

Therefore, the existence of these problems need to be re-planning calculations kali Kuncir Kanan drainage using rainfall data from 2003 through 2012 from 3 stations namely Nganjuk Station, Banaran Station, and Kedungsuko Station in order to get the amount of return period flood discharge at 25 year with Q_B *50% in pot. 1-1 of 57,119 m3/second, in pot. 2-2 of 61,306 m3/second, pot. 3-3 of 65,157 m3/second and pot.4-4 at 77,536 m3/second. Then calculate the existing capacity in each piece, in pot. 1-1 of 39.44 m3/second, in pot. 2-2 of 49.95 m3/second, pot. 3-3 of 16.86 m3/second and pot. 4-4 of 191.18 m3/second. Seen*

that pot.1-1, 2-2, 3-3 overflow / unsafe, necessitating a redesign. So that discharge into kali Kuncir Kanan *can be accommodated safely.*

Keywords: Discharge Flood, Fullbank Capacity, Redesign.