

Abstract

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Development Project of Sukamahi Dam. Methods of Work Implementation and Calculation of Spillway Casting Volume Requirements for Right Blok S-04 Sukamahi Dam.

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(xx + 107 + Attachment)

Sukamahi Dam aims to reduce the impact of flooding in the city of Jakarta by building a dam in the Ciliwung watershed by utilizing the potential of topography, reservoirs, and geology. The Sukamahi Dam Development Project is located right in the Jl. Cikopo Selatan no.32, Sukamahi Village, Megamendung District, Bogor Regency, West Java. A dry dam is a weir built to control flooding and in dry conditions the channel flows normally while in wet conditions the channel flows in a controlled manner. A spillway is a building spillway structure that removes excess dam water, so that water does not overtopping the dam top (overtopping) which could endanger the dam, especially the earth fill type dam. The method of implementation stages of the right S-04 block spillway begins with land survey, measurement and marking, excavation work, installation of drainage lines, concrete work and finishing. Concrete work consists of three parts namely, lean concrete (lc) and anchor work, footing work and wall work. The three concrete works begin with reinforcement fabrication, formwork installation, reinforcing steel installation, doule installation, waterstop installation, work method installation, scafflding installation, casting area cleaning, js (joint inspection), ji (joint inspection), concrete glue spraying, casting. concrete and concrete curing. After analyzing it, the results of the calculation of the volume requirement of the right spillway block S-04 casting are 1.248.189 m³.

Keywords: Dam, Spillway, and Concrete Volume