

**ABSTRACT**

*Title: Planning Building Dimension Hydraulic Weir on the Ciberang River Banten, Name: Ahmad Syaukani, NIM: 41111010033, Contributor: Acep Hidayat, ST, MT, 2016*

*In accordance with the government's plan to increase electricity power in Indonesia, Water Resource Development Institute, particularly in the area of Banten. Water discharge in Ciberang river is never dry and very potential for the development of micro power. .*

*Rainfalls data used from Sajira station for 12 years, from the year 1998 to 2009. And then further analysis by the method of flood discharge plan with HSS Nakayasu, HSS Snyder, and Rational. While analysis hydraulic obtained from the result flood discharge with HSS Nakayasu's method as a preference in planning the dimension of hydraulic weir. .*

*The result of frequency analysis from Gumbell method found the intensity of rainfall plan with a 100 years return period is 217,50 mm. Flood discharge plan (Q100) with the calculation HSS Nakayasu's method is 107,519 m<sup>3</sup>/sec.*

*From the flood discharge plan, dimension of hydraulic weir height is 6 m with the type of beacon is beacon type round with a value of  $R = 0,5$  m. And the type of megrim pool is Vlughter with a length 7,5 m and thick is 2 m.*

*Keywords: Bendung, Curah Hujan Rencana, Debit Banjir Rencana, Sungai Ciberang.*