

# CIRATA HYDROELECTRIC POWER PROJECT

Country Republic of Indonesia  
 Location West Java  
 Client P. T. PLN (PERSERO)

**Financial Sources**

*Pre-investment Study, Detailed Engineering & Design and Supervision of Project Implementation :*  
 International Bank for Reconstruction & Development (IBRD)

*Civil Works and Metal Works :* IBRD

*Electro-Mechanical Equipment :* Export Credits



Concrete Faced Rockfill Dam (126 m high)

Period of Services	Pre-investment study	September 1980 to February 1982
	Detailed Engineering & Design	September 1981 to February 1982
	Supervision of Project Implementation	December 1983 to September 1989

**Description the Project**

This project was commenced in succession to the construction on Saguling Project to harness huge hydro power potentials of the Citarum River running through West Java. The site is immediately upstream of the Jatiluhur reservoir and downstream of the newly created Saguling reservoir. The project is one of the largest in the world in its scale of the structures. Worthy to note among others are its 126-meter high concrete faced rockfill dam and a completely underground power house with a longitudinal dimension of 253 meters. The first two units were put in service in April, 1988 and the remaining two units in October, 1988. The plant will have an installed capacity of 1,000 MW when the second stage construction for peaking requirements is completed.



Underground Powerhouse, 25 m wide, 49.5 m high and 253 m long, capable of housing additional 500MW turbine-generators

Scope of Services Pre-investment study, detailed engineering and design, and supervision of project implementation.

Main Features of the Project	Catchment Area	4,119 km <sup>2</sup>
	Reservoir Area	62 km <sup>2</sup>
	Maximum Reservoir Level	EL. 220 m
	Flood Discharge	5,900 m <sup>3</sup> /sec
	Effective Head	112.5 m
	Maximum Discharge	540 m <sup>3</sup> /sec
	Mean Annual Generation	1,428 GWh
	Effective Storage	796 x 10 <sup>6</sup> m <sup>3</sup>
	Installed Capacity	500 MW (ultimately 1,000 MW)
	Dam Type	Concrete Faced Rockfill
	Dam Height	126 m