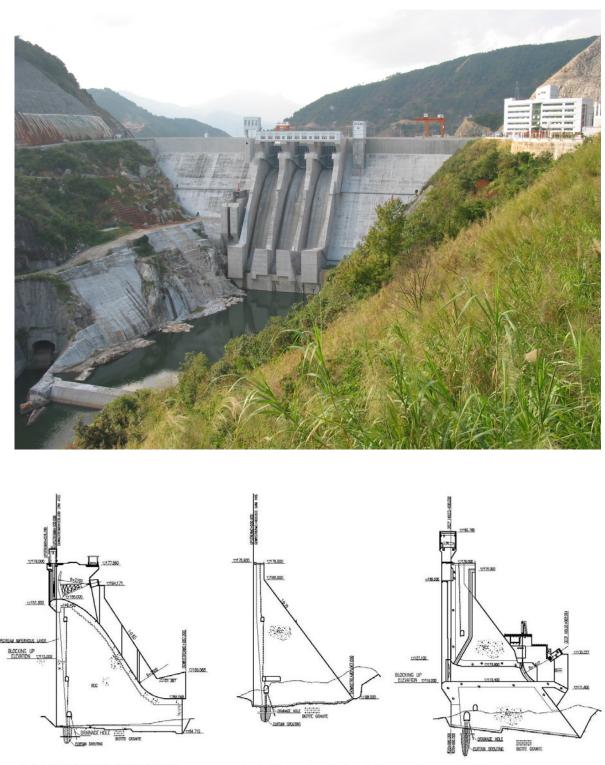
Mianhuatan



TRANSVERSE SECTION PLAN OF OVERFLOW DAM

TRANSVERSE SECTION PLAN OF RETAINING DAM

SECTION OF BOTTOM HOLE CENTRAL LINE

The construction of this project is mainly for hydroelectric power generation together with the comprehensive effectiveness of flood control, navigation and irrigation. The main structures, i.e. dam and flood release structures are designed according to 500-year return period of flood and checked according to 5000-year return period of flood with the designed inflow of 12000 m³/s and corresponding discharge flow 9840m³/s; checked flood inflow of 15500 m³/s and corresponding discharge flow of 11890m³/s. The RCC gravity dam is 113m-high maximally with an entire crest length of 308.5m. The project is installed with 4 units with a total capacity of

600MW and an annual power generation of 1.52GWh. The project was commenced in 1998 and completed in June 2002, and compared to the original investment scheme 959 million RMB was reduced.

	Main Feat	ures	
Project location	On main stream of Tingjiang River, Yongding County, Fujian Province	Main Dam	
Construction scale	Total installed capacity of 600MW	Туре	RCC Gravity Dam
Hydrology		Maximum height	113 0 m
Catchment area upstream dam site	7907 km^2	Crest length	308.5 m
Long-term mean annual runoff	7320 million m ³	type of anti— seepage	Roller compacted concrete with aggregate graded 5-20 mm and 20-40 mm
Flood capacity		Main construction volumes	
Design flood capacity (three days P=0.2%)	1980 million m^3	Concrete (gross)	615000 m^3
Check flood capacity (three days P=0.02%)	2600 million m ³	Roller compacted concrete	500000 m ³
Silt		Normal concrete	115000 m ³
Long-term mean annual silt concentration	0.236 kg/m^3	Spillway	
Long-term mean annual silt carrying capacity	2.13 million tons	Туре	Open type on crest
Reservoir		No. of gates	3
Reservoir area at normal storage water level	64 km ³	Size of gates	16.0×18.5 m
Check flood level (total storage capacity)	2035 million m^3	Bottom outlet	
Normal storage water level	1698 million m ³	Туре	Rectangular hole with pressure, located inside the dam
Regulation storage	1122 million m ³	No. of outlet	1
Dead storage	576 million m ³	Control size	5×7.2 m
Regulation performance	Incomplete annual regulation		
Quantity of discharge			
Maximum discharge at checked flood level (P=0.02%) 11890 m ³ /s		Maximum discharge at designed flood level (P=0.2%) 9840 m ³ /s	

