

# TIANSHENGQIAO No.1

China

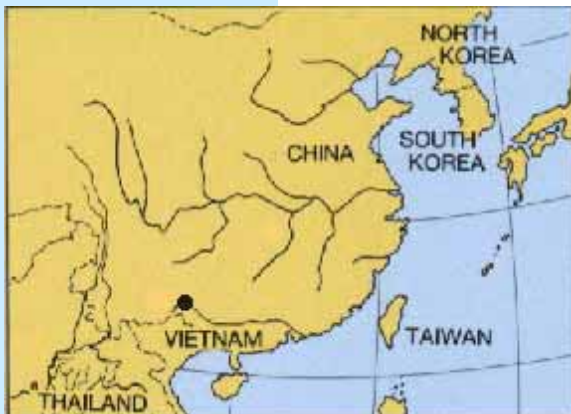


General View of Project

## DESCRIPTION

Tianshengqiao Hydropower Project is to construct a concrete facing rockfill dam (CFRD) and power plant (1,200 MW).

JPOWER in association with Nippon Koei, was awarded contract for tender evaluation and construction supervision of the project, funded by OECF of Japan.



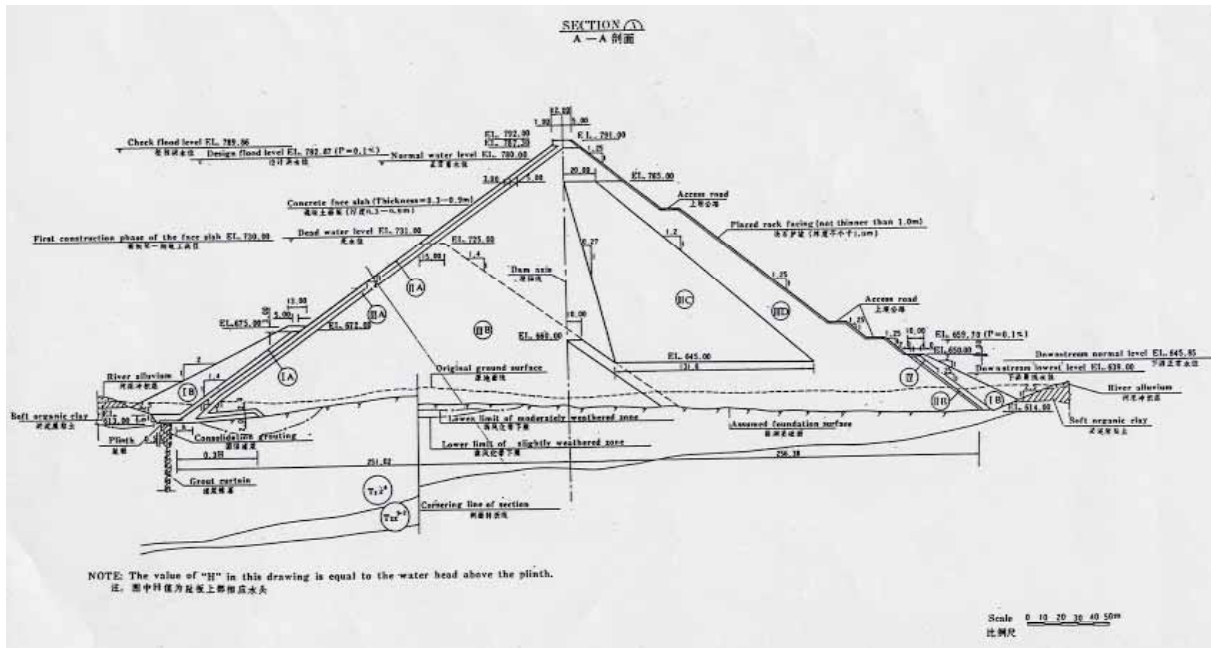
## NAME OF CLIENT:

Ministry of Energy

**CAPACITY:** 1,200 MW

## SERVICES:

Construction Supervision  
(June, 1993 - July, 1998)



Dam Section

### Principal Characteristics of Project

<b>Catchment Area</b>		50,139 km <sup>2</sup>
<b>Reservoir</b>	Total Storage Capacity	102.5 million m <sup>3</sup>
	Effective Storage Capacity	-
	Available Depth	-
<b>Dam</b>	Type	CFRD
	Height x Crest Length	174.5 m x 1168 m
	Total Volume	17,800 x 10 <sup>3</sup> m <sup>3</sup>
<b>Spillway</b>	Type	Radial gate x 5
	Capacity	1,528.2 m <sup>3</sup> /s
<b>Waterway</b>	Type	Pressure Tunnel
	Size	9.6 D x 1,034 m
<b>Penstock</b>	Type	Embedded
	Length	294 ~ 237 m
	Diameter	9 ~ 7.8 m
<b>Powerhouse</b>	Type	Semi - Underground
<b>Turbine</b>	Type	Vertical Shaft, Francis
	Output x No. of Unit	300 MW x 4
	Rated Head	111 m
<b>Generator</b>	Type	-
	Output x No. of Unit	333 MVA x 4

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