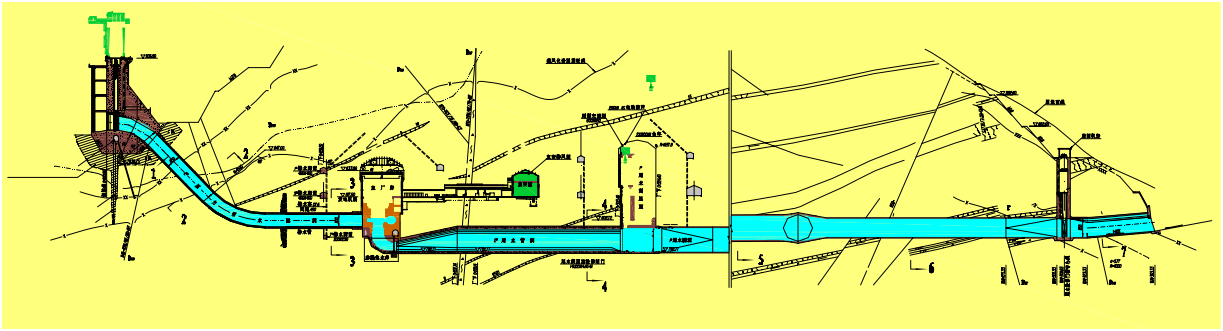
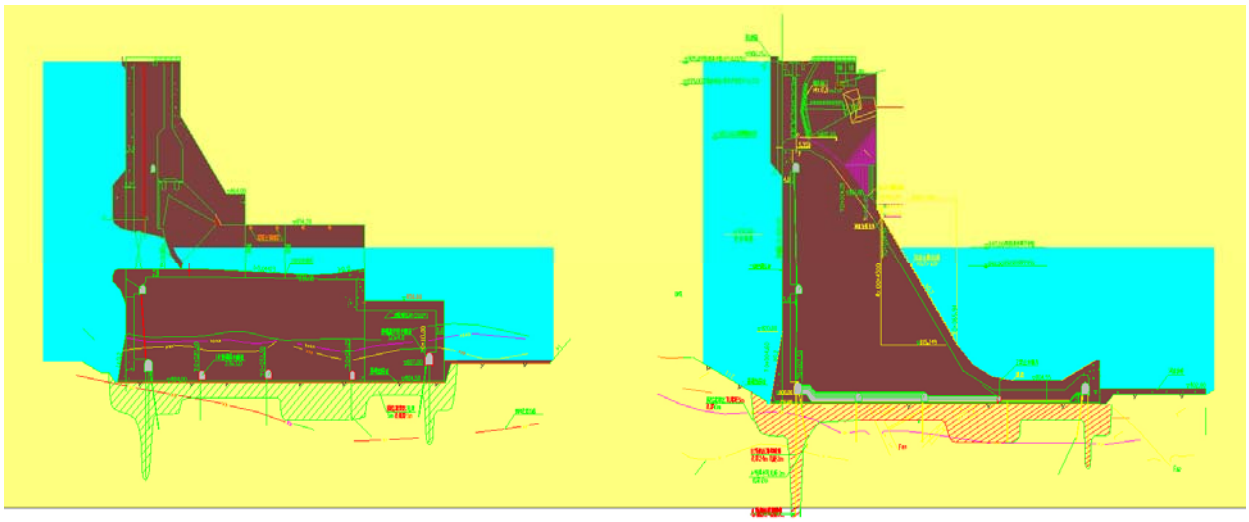
Dachaoshan Hydropower Project

Full view of Dachaoshan Project from downstream



Profile along No.2 Water Way



Section of No.2 bottom outlet **Section of Crest Overflowing spillway**

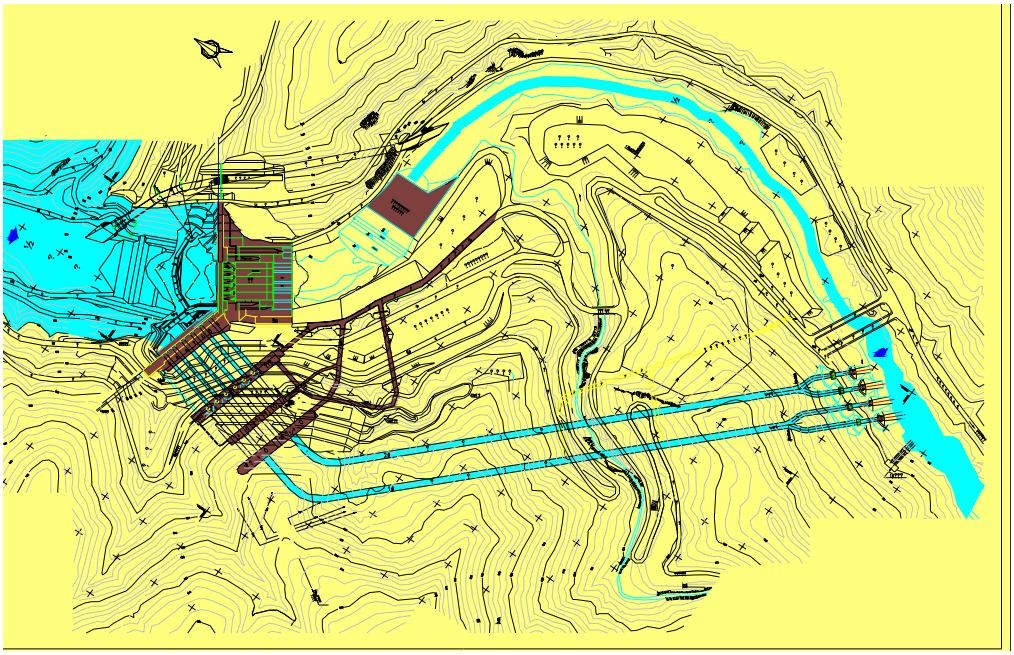
The Dachaoshan Hydropower Project, located on Lancang River, Yunnan province, is a single purpose project, serving only for power production. The station is a I–rank and large–sized (1) project according to relevant classification standard, and its normal water level, total reservoir storage and total installed capacity are respectively 899.0 m, $940\times10^6m^3$ and 1350 MW. The main structures including dam, flood discharge structures, desilting works, headrace structure, powerhouse and switch yard are designed as 1–class hydraulic structure.

The designer of the Project is Beijing Hydroelectric Investigation and Design and Research Institute, and the main contractors include No.1, No.3, No 8 and No. 14 Bureaus of Hydropower Construction as well as the Gezhouba Bureau of Hydropower Construction.

Project Features for Dachaoshan Hydropower Station

Item	unit	quantity	Item	unit	quantity
I. **Hydrology**			16. Basic seismic intensity/ design intensity	degree	VII/VIII
1. Catchment area above the dam site	km^2	121000	17. Crest elevation of dam	m	906.00
2. Mean annual runoff	10^9m^3	42	18. Max. dam height	m	111.00
3. Mean annual flow	m^3/s	1330	19. Crest length of dam	m	460.39
4. Design flood flow (p=0.2%)	m^3/s	18200	20. Elevation of crest over-flowing opening	m	882.00
5. Check flood flow (p=0.02%)	m^3/s	23800	21. Opening number - size	number-m×m	5-14×17
6. Mean annual sediment transport	10^6t	56.48	22. Floor elevation of bottom-discharge opening	m	840.00
Ⅱ. **Reservoir**			23. Opening number - size	number-m×m	3-7.5×10
7. Design flood level	m	905.89	**Ⅴ. Waterway**		
8. Check flood level	m	899	24. Type of waterway	Embedded pipe	
9. Normal storage level	m	899	25. Size	m	8.5
10. Gross storage	10^6m^3	940	26. Type of tailwater surge shaft	Gallery with restricted orifice	
11. Regulation performance	seasonal				
Ⅲ. Energy Index			27. Size (L×W×H)	m	217.4×22.4×72.63
12. Installed capacity	MW	1350	**Ⅵ. Powerhouse**	underground	

Item	unit	quantity	Item	unit	quantity
13. Firm output (p=90%)	MW	363.1	28. Size of main hall	m	233.9×26.4×62.93
14. Annual power generation	GW.h	5931	29. Max. head	m	85.63
Ⅳ. Water retaining structure			30. Rated head	m	72.50
15. Type	RCC gravity dam		31. Rated flow	m^3/s	345.87



General Layout Plan of Dachaoshan Project