

Dam: Guangzhao

Country: China

River: Beipan

25°57'56.69"N 105°15'12.51"E

25.965748 105.253471

Owner/Client: Guizhou Qianyuan Power Co. Ltd.

Designer/Engineer: Guiyang Institute of Investigation, Design and research for Water Resources and Hydropower Projects

Contractor: Fujian (Minjiang) Construction Bureau & 4th Construction Bureau

Purpose (code): H

Site start: 01.10.2004

RCC start: 01.02.2006

RCC completion: 31.05.2008

Site completion: 31.12.2009

Height (m): 201

Length (m): 412

Volume of RCC (m<sup>3</sup>×10<sup>3</sup>): 2420

Total volume (m<sup>3</sup>×10<sup>3</sup>): 2800

Reservoir capacity (m<sup>3</sup>×10<sup>6</sup>): 3245

Upstream slope: V  
0.25

Forming of upstream face (code): (9)

Downstream slope: 0.75

Forming of downstream face (code): (1)

Spillway slope: 0.75

Forming of spillway face (code): (1)

Depth of layers (mm): 300

Depth of lifts (mm): 300

Cement content (kg/m<sup>3</sup>): 61  
71

Pozzolan content (kg/m<sup>3</sup>): 91  
87

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0413

## Under Construction



RCCDAM0413UC

## Completed Dam



RCCDAM0413CD

## Google Earth



RCCDAM0413GE

# Guide to Abbreviations

## Purpose

- E Environmental
- F Flood control
- G Groundwater recharge
- H Flood control
- I Irrigation
- N Navigation
- P Pollution control
- R Recreation
- W Water supply

## Facing method

- (1) Traditional concrete against formwork
- (2) Traditional concrete against formwork with external geomembrane
- (3) RCC against formwork
- (4) RCC against formwork with external geomembrane
- (5) Traditional concrete against precast concrete panels
- (6) Traditional concrete against precast concrete panels with geomembrane
- (7) RCC against precast concrete panels
- (8) RCC against precast concrete panels with geomembrane
- (9) RCC against precast concrete panels with hot poured membrane
- (10) RCC against precast concrete blocks
- (11) Reinforced conventional concrete cast before RCC placement
- (12) Reinforced conventional concrete cast after RCC placement
- (13) Reinforced concrete cast against precast units or slip-formed facing elements
- (14) Slip-formed/extruded facing elements
- (15) RCC supported by fill shoulders
- (16) Mechanically compacted unformed face of RCC
- (17) Unformed face of RCC
  - ' GEVR/GE-RCC
  - \* Stepped face

## Pozzolans

- (-) No Pozzolan Used
- (C) High-lime flyash (ASTM Class C)
- (F) Low-lime flyash (ASTM Class F)
- (M) Milled sand
- (N) Natural pozzolan (ASTM Class N)
- (R) ROLAC (mixture of flyash and slag with or without limestone fines)
- (S) Ground-granulated blast-furnace slag
- (L) Mixture of GGBFS and limestone fines