

Dam: Gelantan

Country: China

River: Lixian

22°42'9.16"N 102°03'25.33"E

22.702543 102.057037

Owner/Client: Datang International Hydropower Generation Co. Ltd.

Designer/Engineer: Tianjin Investigation & Design Institute

Contractor: Fujian (Minjiang) Construction Bureau

Purpose (code): H

Site start: 01.01.2003

RCC start: 01.09.2006

RCC completion: 31.08.2008

Site completion: 31.12.2009

Height (m): 113

Length (m): 466

Volume of RCC (m<sup>3</sup>×10<sup>3</sup>): 903

Total volume (m<sup>3</sup>×10<sup>3</sup>): 1200

Reservoir capacity (m<sup>3</sup>×10<sup>6</sup>): 409

Upstream slope: V  
0.20

Forming of upstream face (code): (3')

Downstream slope: 0.75

Forming of downstream face (code): (3')

Spillway slope: 0.75

Forming of spillway face (code): (1)

Depth of layers (mm): *Unknown*

Depth of lifts (mm): *Unknown*

Cement content (kg/m<sup>3</sup>): 77  
93

Pozzolan content (kg/m<sup>3</sup>): 77  
93

Code for pozzolan: (S)

RCCDAM Unique Serial No.: RCCDAM0416

## Completed Dam



RCCDAM0416CD

## Google Earth



RCCDAM0416GE

# 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