

Dam: Guandi

Country: China

River: Yalong

27°49'19.49"N 101°52'51.65"E

27.822081 101.881012

Owner/Client: Yalong River Hydropower Development Co. Ltd.

Designer/Engineer: Hydrochina Chengdu Engineering Corporation

Contractor: 4th and 14th Construction Bureaux

Purpose (code): H

Site start: 01.01.2009

RCC start: 01.01.2010

RCC completion: 31.12.2012

Site completion: 31.12.2013

Height (m): 168

Length (m): 516

Volume of RCC (m³x10³): 2970

Total volume (m³x10³): 3020

Reservoir capacity (m³x10⁶): 760

Upstream slope: V
0.30

Forming of upstream face (code): *Unknown*

Downstream slope: *Unknown*

Forming of downstream face (code): *Unknown*

Spillway slope: 0.70

Forming of spillway face (code): *Unknown*

Depth of layers (mm): *Unknown*

Depth of lifts (mm): *Unknown*

Cement content (kg/m³): 72

Pozzolan content (kg/m³): 88

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0563

Under Construction



RCCDAM0563UC

Completed Dam



RCCDAM0563CD

Google Earth



RCCDAM0563GE

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