

Dam: Kengkou

Country: China

River: Youxi

25°33'25.70"N 117°49'33.45"E

25.557138 117.825958

Owner/Client: Kengkou Reservoir Management Office

Designer/Engineer: Fujian Institute of Investigation and Design of Water Conservancy and Hydropower

Contractor: Fujian (Minjiang) Construction Bureau

Purpose (code): H W

Site start: 01.11.1984

RCC start: 01.11.1985

RCC completion: 30.04.1986

Site completion: 30.11.1986

Height (m): 57

Length (m): 123

Volume of RCC (m³x10³): 43

Total volume (m³x10³): 62

Reservoir capacity (m³x10⁶): 27

Upstream slope: V

Forming of upstream face (code): (9)

Downstream slope: 0.75

Forming of downstream face (code): (10)

Spillway slope: 0.75

Forming of spillway face (code): (13)

Depth of layers (mm): 250 &
500

Depth of lifts (mm): 250 &
500

Cement content (kg/m³): 60
60

Pozzolan content (kg/m³): 120
80

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0022

Completed Dam



RCCDAM0022CD

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