

Dam: Shimenzi

Country China

River Taxi

43°51'49.42"N 86°13'45.93"E

43.863728 86.229424

Owner/Client Shimenzi Reservoir Engineering Management Office

Designer/Engineer Department of Hydropower, Qinghua University

Contractor Gezhouba Construction Bureau

Purpose (code) H I W

Site start 18.06.1998

RCC start 01.06.1999

RCC completion 30.06.2001

Site completion 31.10.2002

Height (m) 110

Length (m) 176

Volume of RCC ($m^3 \times 10^3$) 188

Total volume ($m^3 \times 10^3$) 211

Reservoir capacity ($m^3 \times 10^6$) 80

Upstream slope 0.142

V

Forming of upstream face (code) (3')

(3')

Downstream slope V

0.18

Forming of downstream face (code) (3)

(3)

Spillway slope crest

Forming of spillway face (code) (12)

Depth of layers (mm) 300

Depth of lifts (mm) 3000

Cement content (kg/m^3) 93

62

Pozzolan content (kg/m^3) 110

110

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0249

Completed Dam



RCCDAM0249CD

Google Earth



RCCDAM0249GE

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