

Dam: Gomal Zam

Country Pakistan

River Gomal

32°5'55.98"N 69°52'53.18"E

32.098885 69.881439

Owner/Client WAPDA (Water and Power Development Authority)

Designer/Engineer China Water Resources Beifang Investigation, Design and Research Co. Ltd. (BIDR), China (as sub-Contractor to FWO)

Contractor Frontier Works Organisation (FWO), Pakistan as EPC Contract with SinoHydro Co. Ltd. (7th Construction Bureau) as sub-Contractor

Purpose (code) F H I

Site start 15.07.2002

RCC start 01.08.2007

RCC completion 30.09.2011

Site completion 15.06.2013

Height (m) 133

Length (m) 231

Volume of RCC (m³x10³) 390

Total volume (m³x10³) 474

Reservoir capacity (m³x10⁶) 1424

Upstream slope V

Forming of upstream face (code) *Unknown*

Downstream slope 0.60

Forming of downstream face (code) *Unknown*

Spillway slope 0.60

Forming of spillway face (code) *Unknown*

Depth of layers (mm) 300

Depth of lifts (mm) 3000 to 4000

Cement content (kg/m³) 91

Pozzolan content (kg/m³) 91

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0495

Under Construction



RCCDAM0495UC

Completed Dam



RCCDAM0495CD

Google Earth



RCCDAM0495GE

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