

Dam: Saf-Saf

Country: Algeria

River: Saf-Saf

34°56'8.07"N 08°13'36.94"E

34.935574 8.226928

Owner/Client: ANBT (Agence Nationale des Barrages et Transfert)

Designer/Engineer: ISL

Contractor: Cosider TP

Purpose (code): F I W

Site start: 01.03.2006

RCC start: 01.01.2008

RCC completion: 30.10.2009

Site completion: 31.03.2011

Height (m): 36

Length (m): 270

Volume of RCC (m³x10³): 120

Total volume (m³x10³): 175

Reservoir capacity (m³x10⁶): 18

Upstream slope: 0.70

Forming of upstream face (code): (12)

Downstream slope: 0.70

Forming of downstream face (code): (7)

Spillway slope: 0.70

Forming of spillway face (code): (12)

Depth of layers (mm): 300

Depth of lifts (mm): 300

Cement content (kg/m³): 120

Pozzolan content (kg/m³): 0

Code for pozzolan: (-)

RCCDAM Unique Serial No.: RCCDAM0458

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