

Dam: Wala Dam Raise

Country Jordan

River Wala

31°34'5.39"N 35°48'16.62"E

31.568165 35.804619

Owner/Client Jordan Valley Authority, Ministry of Water and Irrigation

Designer/Engineer Energoproject (Original), J.V. of NESPAK of Pakistan and CCG (Consolidated Consultant Group) of Jordan

Contractor J.V. of AGE Insaat ve Ticaret A.S. of Turkey and General Equipment Company of Jordan

Purpose (code) G

Site start 25.09.2017

RCC start 10.06.2019

RCC completion 31.10.2019

Site completion 25.07.2020

Height (m) 67

Length (m) 300

Volume of RCC ($m^3 \times 10^3$) 80

Total volume ($m^3 \times 10^3$) 82

Reservoir capacity ($m^3 \times 10^6$) 26

Upstream slope 0.30

Forming of upstream face (code) (1)

Downstream slope 0.70

Forming of downstream face (code) (1) *

Spillway slope 0.70

Forming of spillway face (code) (1) *

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m^3) 98

Pozzolan content (kg/m^3) 52

Code for pozzolan (N)

RCCDAM Unique Serial No. RCCDAM1081

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