

Dam: Hayghar (formerly Dehroud)

Country Iran

River Firooz Abad

28°39'31.82"N 52°41'53.43"E

28.658838 52.698174

Owner/Client Fars Water Authority

Designer/Engineer Ab-niroo Consulting Engineers

Contractor Khatam-ol-Anbia Construction Co.

Purpose (code) F H I W

Site start 01.01.2009

RCC start 01.01.2012

RCC completion 31.12.2024

Site completion 31.12.2026

Height (m) 88

Length (m) 230

Volume of RCC ($m^3 \times 10^3$) 260

Total volume ($m^3 \times 10^3$) 285

Reservoir capacity ($m^3 \times 10^6$) 146

Upstream slope 0.90

Forming of upstream face (code) (3')

Downstream slope 1.20

Forming of downstream face (code) (3') *

Spillway slope 1.20

Forming of spillway face (code) (12)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m^3) Unknown

Pozzolan content (kg/m^3) Unknown

Code for pozzolan Unknown

RCCDAM Unique Serial No. RCCDAM0607

Google Earth



RCCDAM0607GE

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