

Dam: Shafaroud Country Iran

River Shafaroud 37°31'25.18"N 49°5'17.37"E 37.523659 49.088158

Owner/Client Iran Water & Power Development Company (IWPCo)

Designer/Engineer Mahab Ghodss

Contractor Jiyan Construction Co.

Purpose (code) H I W

Site start 01.03.2014

RCC start 20.06.2020

RCC completion 20.08.2026

Site completion 30.03.2027

Height (m) 101

Length (m) 300

Volume of RCC (m³x10³) 725

Total volume (m³x10³) 740

Reservoir capacity (m³x10⁶) 52

Upstream slope 0.10
0.50

Forming of upstream face (code) (3')

Downstream slope 0.80

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

Spillway slope 0.80

Forming of spillway face (code) (12)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m³) Unknown

Pozzolan content (kg/m³) Unknown

Code for pozzolan Unknown

RCCDAM Unique Serial No. RCCDAM0690

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