

Dam: Ballikaya

Country Turkey

River Mudurnu

40°34'50.29"N 30°41'9.36"E

40.580635 30.685934

Owner/Client DSI - State Hydraulic Works

Designer/Engineer Unknown

Contractor Abdurrahman Çorum-Elif Mühendislik Makina Sanayi Ve Ticaret İş Ortaligi

Purpose (code) W

Site start 01.01.2013

RCC start 01.01.2015

RCC completion 31.12.2020

Site completion 31.12.2023

Height (m) 98

Length (m) 357

Volume of RCC (m³x10³) 800

Total volume (m³x10³) Unknown

Reservoir capacity (m³x10⁶) 143

Upstream slope 0.10
0.35

Forming of upstream face (code) (1)

Downstream slope 0.70

Forming of downstream face (code) (1)

Spillway slope Unknown

Forming of spillway face (code) Unknown

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m³) 63
83

Pozzolan content (kg/m³) 63
83

Code for pozzolan Unknown

RCCDAM Unique Serial No. RCCDAM1136

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