

Dam: Yukari (Upper) Kaleköy

Country Turkey

River Murat

38°48'49.70"N 41°2'31.55"E

38.813889 41.042095

Owner/Client Kalehan Energy Üretim ve Ticaret A.S.

Designer/Engineer Temelsu International Engineering Services Inc.

Contractor Ozaltin Ins. Tic. ve San A.S.

Purpose (code) H

Site start 01.06.2012

RCC start 01.06.2014

RCC completion 30.09.2016

Site completion 30.04.2018

Height (m) 150

Length (m) 516

Volume of RCC (m³x10³) 2224

Total volume (m³x10³) 2414

Reservoir capacity (m³x10⁶) 784

Upstream slope 0.25

Forming of upstream face (code) (7)

Downstream slope 0.80

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) 90

Pozzolan content (kg/m³) 40

Code for pozzolan (M)

RCCDAM Unique Serial No. RCCDAM0663

Under Construction



RCCDAM0663UC

Google Earth



RCCDAM0663GE

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