

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 ($m^3 \times 10^3$) 2224

Total volume ($m^3 \times 10^3$) 2414

Reservoir capacity ($m^3 \times 10^6$) 784

Upstream slope 0.25

Forming of upstream face (code) (7)

Downstream slope 0.80

Forming of downstream face (code) (1)

Spillway slope

Forming of spillway face (code)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m^3) 130

Pozzolan content (kg/m^3) 0

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