

Dam: Mwache

Country Kenya

River Mwache

3°59'27.6"S 39°31'14.5"E

-3.991 39.520695

Owner/Client Ministry of Water and Sanitation

Designer/Engineer Nippon Koei in association with Mangat I.B. Patel

Contractor SinoHydro (Construction Bureau N°15)

Purpose (code) I W

Site start 01.04.2022

RCC start 21.03.2025

RCC completion 28.05.2026

Site completion 31.12.2026

Height (m) 84

Length (m) 526

Volume of RCC ( $m^3 \times 10^3$ ) 610

Total volume ( $m^3 \times 10^3$ ) 620

Reservoir capacity ( $m^3 \times 10^6$ ) 136

Upstream slope *Unknown*

Forming of upstream face (code) *Unknown*

Downstream slope *Unknown*

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

Spillway slope *Unknown*

Forming of spillway face (code) *Unknown*

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content ( $kg/m^3$ ) 70

Pozzolan content ( $kg/m^3$ ) 150

Code for pozzolan *Unknown*

RCCDAM Unique Serial No. RCCDAM0896

## Under Construction



RCCDAM0896UC

## Google Earth



RCCDAM0896GE

# 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