

Dam: Neckartal

Country: Namibia

River: Fish

26°37'55.29"S 17°43'3.61"E

-26.632025 17.717669

Owner/Client: Ministry of Agriculture, Water and Forestry

Designer/Engineer: Knight Piesold

Contractor: Salini - Impregilo SpA

Purpose (code): I

Site start: 11.09.2013

RCC start: 11.11.2015

RCC completion: 31.05.2018

Site completion: 30.04.2019

Height (m): 83

Length (m): 520

Volume of RCC ( $m^3 \times 10^3$ ): 836

Total volume ( $m^3 \times 10^3$ ): 1043

Reservoir capacity ( $m^3 \times 10^6$ ): 857

Upstream slope: 0.20

Forming of upstream face (code): (3')

Downstream slope: 0.70

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

Spillway slope: 0.70

Forming of spillway face (code): (12)

Depth of layers (mm): 300

Depth of lifts (mm): 300

Cement content ( $kg/m^3$ ): 65  
65

Pozzolan content ( $kg/m^3$ ): 120  
45

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0687

## Under Construction



RCCDAM0687UC

## Completed Dam



RCCDAM0687CD

## Google Earth



RCCDAM0687GE

# 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