

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<sup>3</sup>x10<sup>3</sup>) 836

Total volume (m<sup>3</sup>x10<sup>3</sup>) 1043

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 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<sup>3</sup>) 65  
65

Pozzolan content (kg/m<sup>3</sup>) 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