

Dam: Grand Poubara

Country Gabon

River Ogooué

1°46'23.62"S 13°33'5.04"E

-1.773228 13.5514

Owner/Client Ministries of Mining, Energy, Oil and Water Resources

Designer/Engineer Gauff Engineering

Contractor SinoHydro Co. Ltd. (\*\*th Construction Bureau)

Purpose (code) H

Site start 01.11.2008

RCC start 01.01.2010

RCC completion 31.12.2012

Site completion 05.08.2013

Height (m) 37

Length (m) 300

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) Unknown

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

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

Upstream slope Unknown

Forming of upstream face (code) Unknown

Downstream slope Unknown

Forming of downstream face (code) Unknown

Spillway slope Unknown

Forming of spillway face (code) Unknown

Depth of layers (mm) Unknown

Depth of lifts (mm) Unknown

Cement content (kg/m<sup>3</sup>) 105  
96

Pozzolan content (kg/m<sup>3</sup>) 70  
64

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0559

## Under Construction



RCCDAM0559UC

## Completed Dam



RCCDAM0559CD

## Google Earth



RCCDAM0559GE

# 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