

Dam: Castanhão

Country: Brazil

River: Congonhas

5°29'50.17"S 38°26'48.93"W

-5.497270 -38.446926

Owner/Client: DNOCS/Minas Gerais

Designer/Engineer: CEC

Contractor: Unknown

Purpose (code): F I R W

Site start: 10.10.1999

RCC start: 01.01.2000

RCC completion: 30.12.2001

Site completion: 31.12.2002

Height (m): 85

Length (m): 668

Volume of RCC ($m^3 \times 10^3$): 890

Total volume ($m^3 \times 10^3$): 1030

Reservoir capacity ($m^3 \times 10^6$): 800

Upstream slope:

Forming of upstream face (code):

Downstream slope:

Forming of downstream face (code):

Spillway slope:

Forming of spillway face (code):

Depth of layers (mm): 300

Depth of lifts (mm): 300

Cement content (kg/m^3): 85

Pozzolan content (kg/m^3): 0

Code for pozzolan: (-) -

RCCDAM Unique Serial No.: RCCDAM0258

Completed Dam



RCCDAM0258CD

Google Earth



RCCDAM0258GE

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