

Dam: Manduriacu

Country Ecuador

River Mauduriacu

0°12'50.39"N 78°54'44.55"W

0.214058 -78.912491

Owner/Client CELEC (Corporación Eléctrica del Ecuador)

Designer/Engineer Typsa, Spain

Contractor Odebrecht

Purpose (code) H

Site start 01.12.2011

RCC start 01.01.2013

RCC completion 31.12.2014

Site completion 19.03.2015

Height (m) 61

Length (m) 245

Volume of RCC (m³x10³) 114

Total volume (m³x10³) Unknown

Reservoir capacity (m³x10⁶) 10

Upstream slope 0.25

Forming of upstream face (code) Unknown

Downstream slope 0.75

Forming of downstream face (code) Unknown

Spillway slope 0.75

Forming of spillway face (code) Unknown

Depth of layers (mm) Unknown

Depth of lifts (mm) Unknown

Cement content (kg/m³) Unknown

Pozzolan content (kg/m³) Unknown

Code for pozzolan (N)

RCCDAM Unique Serial No. RCCDAM0627

Under Construction



RCCDAM0627UC

Completed Dam



RCCDAM0627CD

Google Earth



RCCDAM0627GE

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