

Dam: Patuca 3

Country Honduras

River Patuca

14°26'39.71"N 85°57'57.24"W

14.444364 -85.965897

Owner/Client Empresa Nacional de Energía Eléctrica(ENEE)

Designer/Engineer Power China

Contractor SinoHydro Co. Ltd. (11th Construction Bureau)

Purpose (code) H

Site start 01.01.2012

RCC start 01.03.2016

RCC completion 28.02.2017

Site completion 31.12.2019

Height (m) 54

Length (m) 160

Volume of RCC ($m^3 \times 10^3$) 120

Total volume ($m^3 \times 10^3$) 160

Reservoir capacity ($m^3 \times 10^6$) 208

Upstream slope 0.20

Forming of upstream face (code) (1)

Downstream slope 0.75

Forming of downstream face (code) (1)

Spillway slope 0.75

Forming of spillway face (code) (12)

Depth of layers (mm) 300

Depth of lifts (mm) 3000

Cement content (kg/m^3) 81

Pozzolan content (kg/m^3) 81

Code for pozzolan (N)

RCCDAM Unique Serial No. RCCDAM0677

Under Construction



RCCDAM0677UC

Completed Dam



RCCDAM0677CD

Google Earth



RCCDAM0677GE

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