

Dam: Don Sahong Country Laos

River Mekong 13°56'54.82"N 105°57'29.98"E 13.948561 105.958328

Owner/Client Don Sahong Power Company (Mega First Corporation Berhad and Électricité du Laos)

Designer/Engineer Kunming Engineering Co. Ltd.

Contractor SinoHydro Co. Ltd. (Construction Bureaux N°10 and N°15)

Purpose (code) H

Site start 15.10.2015

RCC start 01.06.2016

RCC completion 31.12.2018

Site completion 30.12.2019

Height (m) 26

Length (m) 6800

Volume of RCC (m³x10³) 566

Total volume (m³x10³) 609

Reservoir capacity (m³x10⁶) 24

Upstream slope 0.30

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) (1)

Depth of layers (mm) 300

Depth of lifts (mm) 2400

Cement content (kg/m³) 55

Pozzolan content (kg/m³) 103

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM1272

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