

Dam: Upper Wawa

Country Philippines

River Marikina

14°42'0.22"N 121°12'10.93"E

14.700061 121.203033

Owner/Client Wawa JV Co. Inc. (Prime Infrastructure Capital Inc and San Lorenzo Ruiz Builders and Developers Group)

Designer/Engineer PowerChina Philippines Corporation/Power Construction Corporation of China Ltd JV

Contractor PowerChina Philippines Corporation/PowerChina (\*\*th Construction Bureau) Corporation of China Ltd JV

Purpose (code) W

Site start 28.06.2021

RCC start 18.01.2023

RCC completion 31.12.2024

Site completion 31.12.2025

Height (m) 87

Length (m) 439

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 1035

Total volume (m<sup>3</sup>x10<sup>3</sup>) 1043

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 120

Upstream slope 0.60

Forming of upstream face (code) (3')

Downstream slope 0.80

Forming of downstream face (code) (3') \*

Spillway slope 0.80

Forming of spillway face (code) (3') \*

Depth of layers (mm) 300

Depth of lifts (mm) 3600

Cement content (kg/m<sup>3</sup>) 80  
70

Pozzolan content (kg/m<sup>3</sup>) 120  
110

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM1295

# 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