

Dam: Okukubi (Kin)

Country Japan

River Okukubi

26°27'53.88"N 127°55'54.73"E

26.464968 127.93187

Owner/Client Okinawa General Bureau, Cabinet Office, Japan

Designer/Engineer Crearia Inc

Contractor Taisie, Kokubakumi and Marumasakoumutenn J.V.

Purpose (code) F I W

Site start 24.03.2009

RCC start 17.11.2010

RCC completion 07.03.2011

Site completion 31.07.2011

Height (m) 39

Length (m) 461

Volume of RCC (m³x10³) 339

Total volume (m³x10³) 430

Reservoir capacity (m³x10⁶) 79

Upstream slope 0.80

Forming of upstream face (code) (5)

Downstream slope 0.80

Forming of downstream face (code) (5)

Spillway slope 0.80

Forming of spillway face (code) (5)

Depth of layers (mm) 300

Depth of lifts (mm) 750

Cement content (kg/m³) 80

Pozzolan content (kg/m³) 0

Code for pozzolan (-)

RCCDAM Unique Serial No. RCCDAM0494

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