

Dam: Gokayama

Country Japan

River Naka

33°24'48.57"N 130°25'6.34"E

33.41349 130.418427

Owner/Client Fukuoka Prefecture

Designer/Engineer Crearia Inc.

Contractor Kajima Corp., Tobishima and Matsumoto JV

Purpose (code) F N W

Site start 01.06.2012

RCC start 01.01.2014

RCC completion 10.07.2015

Site completion 15.03.2018

Height (m) 103

Length (m) 556

Volume of RCC ($m^3 \times 10^3$) 634

Total volume ($m^3 \times 10^3$) 935

Reservoir capacity ($m^3 \times 10^6$) 40

Upstream slope V
1.00

Forming of upstream face (code) (1)
(1)

Downstream slope 0.76

Forming of downstream face (code) (1)

Spillway slope 0.76

Forming of spillway face (code) (1)

Depth of layers (mm) 250

Depth of lifts (mm) 1000

Cement content (kg/m^3) 104

Pozzolan content (kg/m^3) 26

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0635

Completed Dam



RCCDAM0635CD

Google Earth



RCCDAM0635GE

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