

Dam: Fukuchiyama

Country Japan

River Fukuti

33°45'24.33"N 130°47'0.42"E

33.75676 130.783447

Owner/Client Fukuoka Prefecture

Designer/Engineer Fukuoka-ken

Contractor Taisei Construction Co., Ltd., Maeda Construction Kogyo Co., Ltd. and Tamehiro Co., Ltd. J.V.

Purpose (code) F N W

Site start 09.10.1998

RCC start 01.01.1999

RCC completion 30.12.2001

Site completion 31.03.2003

Height (m) 65

Length (m) 255

Volume of RCC (m³x10³) 115

Total volume (m³x10³) 201

Reservoir capacity (m³x10⁶) 3

Upstream slope V

Forming of upstream face (code) (1)

Downstream slope 0.78

Forming of downstream face (code) (1)

Spillway slope 0.78

Forming of spillway face (code) (1)

Depth of layers (mm) 250

Depth of lifts (mm) 750

Cement content (kg/m³) 84

Pozzolan content (kg/m³) 36

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0257

Completed Dam



RCCDAM0257CD

Google Earth



RCCDAM0257GE

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