

Dam: Dodairagawa

Country Japan

River Kabura

36°14'6.34"N 138°40'41.44"E

36.235092 138.678177

Owner/Client Gunma Prefecture

Designer/Engineer Gunma-ken

Contractor Kumagi-Gumi Co Ltd., Kajima Co Ltd, Shimizu Construction Co Ltd., and Sada Construction Co Ltd. (J.V.)

Purpose (code) F W

Site start 17.03.1986

RCC start 01.06.1988

RCC completion 31.01.1990

Site completion 01.03.1992

Height (m) 70

Length (m) 300

Volume of RCC (m³x10³) 167

Total volume (m³x10³) 350

Reservoir capacity (m³x10⁶) 5

Upstream slope V
0.40

Forming of upstream face (code) (1)
(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) 180

Depth of lifts (mm) 500

Cement content (kg/m³) 96

Pozzolan content (kg/m³) 24

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0062

Completed Dam



RCCDAM0062CD

Google Earth



RCCDAM0062GE

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