

Dam: Shimajigawa

Country Japan

River Shimaji

34°10'13.88"N 131°46'31.10"E

34.170521 131.775299

Owner/Client Ministry of Construction

Designer/Engineer Ministry of Construction

Contractor Ohbayashi Co Ltd. and Ohmoto-Gumi Co. Ltd. (J.V.)

Purpose (code) F I W

Site start 15.09.1976

RCC start 25.10.1978

RCC completion 28.04.1980

Site completion 26.03.1981

Height (m) 89

Length (m) 240

Volume of RCC ($m^3 \times 10^3$) 165

Total volume ($m^3 \times 10^3$) 317

Reservoir capacity ($m^3 \times 10^6$) 21

Upstream slope V
0.30

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

Downstream slope 0.80

Forming of downstream face (code) (1)

Spillway slope 0.80

Forming of spillway face (code) (1)

Depth of layers (mm) 150 to
200

Depth of lifts (mm) 500
700

Cement content (kg/m^3) 84

Pozzolan content (kg/m^3) 36

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0013

Completed Dam



RCCDAM0013CD

Google Earth



RCCDAM0013GE

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