

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 (m³x10³) 165

Total volume (m³x10³) 317

Reservoir capacity (m³x10⁶) 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 -
200

Depth of lifts (mm) 500
700

Cement content (kg/m³) 84

Pozzolan content (kg/m³) 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