

Dam: Tamagawa

Country Japan

River Tama

39°49'52.59"N 140°38'26.85"E

39.831276 140.640793

Owner/Client Ministry of Construction

Designer/Engineer Ministry of Construction

Contractor Kajima Co Ltd, Okumura Co Ltd, and Chizaki Kogyo Co Ltd, (J.V.)

Purpose (code) F H I W

Site start 01.08.1980

RCC start 01.09.1983

RCC completion 31.07.1986

Site completion 31.12.1990

Height (m) 100

Length (m) 441

Volume of RCC ($m^3 \times 10^3$) 772

Total volume ($m^3 \times 10^3$) 1150

Reservoir capacity ($m^3 \times 10^6$) 254

Upstream slope V
0.60

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

Downstream slope 0.81

Forming of downstream face (code) (1)

Spillway slope 0.81

Forming of spillway face (code) (1)

Depth of layers (mm) 150 -
200

Depth of lifts (mm) 750
1000

Cement content (kg/m^3) 91

Pozzolan content (kg/m^3) 39

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0024

Completed Dam



RCCDAM0024CD

Google Earth



RCCDAM0024GE

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