

Dam: Irahara

Country Japan

River Harai

33°35'21.32"N 130°56'56.69"E

33.589256 130.949081

Owner/Client Fukuoka Prefecture

Designer/Engineer Fukuoka Prefecture

Contractor Taisei Corp., Fujita Corp. and Okamoto Doboku Corp. JV

Purpose (code) F W

Site start 01.07.2014

RCC start 01.07.2015

RCC completion 31.03.2018

Site completion 28.03.2019

Height (m) 81

Length (m) 295

Volume of RCC ($m^3 \times 10^3$) 372

Total volume ($m^3 \times 10^3$) 419

Reservoir capacity ($m^3 \times 10^6$) 29

Upstream slope V
0.60

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

Downstream slope 0.77

Forming of downstream face (code) (1)

Spillway slope 0.77

Forming of spillway face (code) (1)

Depth of layers (mm) 250

Depth of lifts (mm) 1000

Cement content (kg/m^3) 84

Pozzolan content (kg/m^3) 36

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0638

Under Construction



RCCDAM0638UC

Completed Dam



RCCDAM0638CD

Google Earth



RCCDAM0638GE

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