

Dam: Koyama

Country Japan

River Ohkita

36°47'48.34"N 140°38'37.12"E

36.796761 140.643646

Owner/Client Ibaraki Prefecture

Designer/Engineer Ibaragi-ken

Contractor Kumagai-Gumi Co Ltd., Kabuki Construction Co Ltd and Suzunui Kogyo Co Ltd. J.V.

Purpose (code) F I W

Site start 18.11.1994

RCC start 14.05.2000

RCC completion 13.12.2002

Site completion 15.03.2005

Height (m) 65

Length (m) 462

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 270

Total volume (m<sup>3</sup>x10<sup>3</sup>) 531

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 17

Upstream slope V

Forming of upstream face (code) (1)

Downstream slope 0.78

Forming of downstream face (code) (1)

Spillway slope 0.78

Forming of spillway face (code) (1)

Depth of layers (mm) 250

Depth of lifts (mm) 750

Cement content (kg/m<sup>3</sup>) 84

Pozzolan content (kg/m<sup>3</sup>) 36

Code for pozzolan (S)

RCCDAM Unique Serial No. RCCDAM0285

## Completed Dam



RCCDAM0285CD

## Google Earth



RCCDAM0285GE

# 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