

Dam: Miyatoko

Country Japan

River Miyatoko

38°23'13.48"N 140°49'20.5"E

38.387077 140.822357

Owner/Client Miyagi Prefecture

Designer/Engineer ?

Contractor Shimizu Construction Co Ltd, Mitsui Construction Co Ltd and Chizaki Kogyo Co Ltd J.V.□

Purpose (code) F W

Site start 01.06.1989

RCC start 01.06.1990

RCC completion 30.12.1993

Site completion 31.01.1997

Height (m) 48

Length (m) 256

Volume of RCC (m³x10³) 172

Total volume (m³x10³) 280

Reservoir capacity (m³x10⁶) 5

Upstream slope 0.60

Forming of upstream face (code) (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) 180

Depth of lifts (mm) 500

Cement content (kg/m³) 96

Pozzolan content (kg/m³) 24

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0129

Completed Dam



RCCDAM0129CD

Google Earth



RCCDAM0129GE

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