

Dam: Middle Vaitarna

Country India

River Vaitarna

19°42'17.65"N 73°26'2.71"E

19.704903 73.43409

Owner/Client Municipal Corporation of Greater Mumbai

Designer/Engineer Central Design Organisation, Water Resources Department, Government of Maharashtra

Contractor CWE-Soma Consortium

Purpose (code) W

Site start 27.10.2008

RCC start 05.05.2010

RCC completion 15.04.2012

Site completion 31.12.2012

Height (m) 102

Length (m) 565

Volume of RCC ($m^3 \times 10^3$) 1202

Total volume ($m^3 \times 10^3$) 1500

Reservoir capacity ($m^3 \times 10^6$) 202

Upstream slope 0.15

Forming of upstream face (code) (3')

Downstream slope 0.75

Forming of downstream face (code) (3') *

Spillway slope 0.75

Forming of spillway face (code) (12)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m^3) 75

Pozzolan content (kg/m^3) 145

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0538

Under Construction



RCCDAM0538UC

Completed Dam



RCCDAM0538CD

Google Earth



RCCDAM0538GE

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