| | | | |
|---|---|---|---|
| Dam: | Zungeru | Country | Nigeria |
| River | Kaduna | 09°54'07.31"N 06°17'45.75"E | 9.902031 6.296042 |
| Owner/Client | Federal Ministry of Power, Nigeria | | |
| Designer/Engineer | EPC - SinoHydro Corporation, CNEEC (China National Electrical Engineering Corporation) Consortium | | |
| Contractor | SinoHydro Co. Ltd. (**th Construction Bureau)/CNEEC (China National Electrical Engineering Corporation) Consortium | | |

| | |
|---|---|
| Purpose (code) | F H |
| Site start | 29.09.2013 |
| RCC start | 22.01.2018 |
| RCC completion | 31.08.2020 |
| Site completion | 31.10.2022 |
| Height (m) | 101 |
| Length (m) | 1090 |
| Volume of RCC ($m^3x10^3$) | 1920 |
| Total volume ($m^3x10^3$) | 2400 |
| Reservoir capacity ($m^3x10^6$) | 11400 |
| Upstream slope | V |
| 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 ($kg/m^3$) | 59<br>69 94 |
| Pozzolan content ($kg/m^3$) | 76<br>69 76 |
| Code for pozzolan | (F) |
| RCCDAM Unique Serial No. | RCCDAM0683 |

## Google Earth

RCCDAM0683GE

# 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 |