

SALAULI DAM PROJECT, GOA



SALIENT FEATURES

Location	: Sanguem Taluka, Goa
River	: Sanguem
Design Discharge	: 1420 m ³ /s
Max. Reservoir Level	: El. 44.5 m
Gross Storage	: 227 million cubic meter
Irrigation	: 14,500 hectares

DAM

Type	: Earth dam with central masonry spillway
Height of Dam	: 41 m
Length of Dam	: 1003 m
Spillway	: Duckbill ungated spillway
Crest Elevation	: El. 41.15 m

MAJOR STUDIES

1:40 Scale Comprehensive model

- ☺ Alternative design of spillway and energy dissipator
- ☺ Assessment of discharging capacity & pressures over spillway crest
- ☺ Performance of spillway and energy dissipator



RESULTS

- 📄 The original layout of two spans overflow spillway was changed to unconventional ungated duckbill spillway
- 📄 Design of duckbill spillway was finalised in respect of crest shape, discharging capacity and flow conditions in the trough downstream
- 📄 Design of curved and reverse sloping stilling basin including part length divide walls, chute and baffle blocks was finalised