PUNE - 411 024, INDIA.



# SALAULI DAM PROJECT, GOA



## **SALIENT FEATURES**

Location : Sanguem Taluka, Goa

River : Sanguem
Design Discharge : 1420 m³/s
Max. Reservoir Level : El. 44.5 m

Gross Storage : 227 million cubic meter

Irrigation : 14,500 hectares

## DAM

Type : Earth dam with central masonary spillway

Height of Dam : 41 m Length of Dam : 1003 m

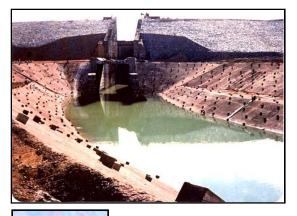
Spillway : Duckbill ungated spillway

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 cruved and reverse sloping stilling basin including part length divide walls, chute and baffle blocks was finalised