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 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