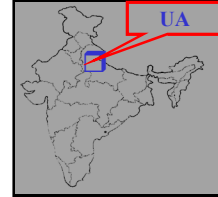


## DEVSARI H.E. PROJECT, UTTARAKHAND.



### SALIENT FEATURES

Type	: Run-of-the-river H.E. Project
River	: Pinder river in chamoli district of Uttarakhand
Dam	: 35 m High concrete Gravity Dam near Devsari Village in Uttarakhand
Spillway	: 5 Spans of 12.5 m wide X 8.5 m high with breast wall
Power House	: Underground at right bank of river
Capacity	: 252 MW (3 x 84 MW)

### MODEL STUDIES

2-D Sectional (1:40 G.S.) and 3-D Comprehensive (1:60 G.S.) models of the dam spillway have been constructed to study:

- ❖ Discharging capacity of the spillway for ungated and gated operation
- ❖ Water and pressure profiles along the spillway surface
- ❖ Efficacy of the energy dissipation for entire range of discharges
- ❖ Flow conditions upstream of spillway and in the vicinity of power intake
- ❖ Flow conditions downstream of spillway and protection measures of river bed and banks



### SIGNIFICANCE OF THE STUDIES

The model studies are in general, useful to evolve economic and safe hydraulic designs of spillways and energy dissipators. The studies for Devsari dam spillway will help in enhancing safety due to:

- ❖ Modifications in the design of spillway and energy dissipator leading to better energy dissipation

### FURTHER STUDIES

- ❖ Modification of design of spillway and energy dissipator for improving flow conditions.