

## RISHI GANGA – I HE PROJECT (2 x 35=70 MW )

### SALIENT FEATURES

#### LOCATION

State	Uttaranchal
District	Chamoli
River	Rishi Ganga
<b>Dam site</b>	
Location	Immediately after confluence of Dudh Ganga river joining Rishi Ganga from left bank
Latitude	30 <sup>0</sup> 27' 37"
Longitude	79 <sup>0</sup> 46' 26"
Nearest Airport	Dehradun
Nearest rail head	Rishikesh

#### HYDROLOGY

Catchment area at dam site	599.0 sq km
Snowbound catchment area (including area under glacial cover)	
Average annual runoff	M cum
Average monsoon runoff	M cum
Average non-monsoon runoff	M cum
Maximum average discharge at dam site	64 cumec
Minimum average discharge at dam site	3.8 cumec

#### RESERVOIR

Full Reservoir Level (FRL) / Maximum Water Level (MWL)	EI 2872.0 m
Minimum Drawdown Level (MDDL)	EI 2865.0 m
Gross storage at FRL	1.1 M cum
Live storage	0.4 M cum
Area under submergence at FRL	6.2 ha.

#### DIVERSION TUNNEL

Number	1
Size	3.5 m diameter
Length	350 m
Diversion discharge (assumed)	25 cumec

## DAM

Type	Concrete gravity dam
Top elevation of dam	EI 2874.0 m
Height of dam above River bed level	29.0 m
Length of dam at top River bed level	118.0 m EI 2845.0

## SPILLWAY

Design flood	2220 cumec
Type	Ogee Spillway
Crest elevation	EI 2857.5 m
Number of bays	3
Length of spillway	42.0 m
Energy dissipation	Trajectory type bucket

## INTAKE

Invert level	2859.5 m
Number	1
Size of gate opening	3.0 m x 3.0 m
Trash rack	3 No. of 3.6 m x 8.4 m

## DESILTING CHAMBER

Number	1
Size	100 m x 7.0 m x 7.51m
Design discharge	18.0 cumec
Particle size to be removed	0.2 mm and above

## HEAD RACE TUNNEL

Number	1
Size	2.5 m diameter
Shape	D- shape
Length	3.31 km

## SURGE SHAFT

Number	1
Size	6.0 m dia
Height	47 m



**CONSTRUCTION PERIOD**

**5 Years**