

# TALA DAM SPILLWAY, BHUTAN



## SALIENT FEATURES

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	Location	1	Honka , Bhutan
	River	1	Wangchu
	<b>Power Generation</b>	÷	1020 MW
	Maximum Discharge	:	10600 m <sup>3</sup> /s
	Type of dam	1	Concrete Gravity Dam Height 91m
	Sluice Spillway	:	5 Sluices of 6.5 m wide X13.5 m
	Radial Gates	÷	13.5 m (H) 6.5 m (w)
	Energy dissipator	:	Ski-jump with 30 degrees lip angle

### MAJOR STUDIES

#### Comprehensive model scale 1:60

- © Approach flow conditions upstream of spillway and power intake
- © Assessment of discharging capacity & pressures on sluice spillway
- © Performance of sluice spillway and ski-jump bucket
- © Estimation of excavation quantity for right bank
- O Plunge pool layout



### BENEFITS

- □ Introduction of curvature in dam axis for containing ski-jump jet in river
- Reduction in excavation of right bank
- Reduction of thrust on turnnion of radial gates
- Remedial measures to eliminate cavitation damage on sluice profile
- □ Introduction of divide walls for improving performance of spillway
- G Optimisation of plunge pool
- Shift of overflow spillway to left bank to avoid interaction of approach flow of right bank power intake