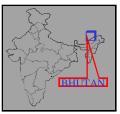


KURICHU DAM SPILLWAY, BHUTAN



SALIENT FEATURES

| Location | : Mongar District, Bhutan |
|---|---|
| River | : Kurichu |
| Power Generation | : 60 MW |
| Maximum Discharge : 12200 m ³ /s | |
| Type of dam | : Concrete Gravity Dam Height 55 m |
| Spillway | : 5 Spans of 10.5 m wide separated by 7 m thick piers |
| Radial Gates | : 14 m (H) 10.5 m (w) |
| Energy dissipator | : Stilling Basin |

MAJOR STUDIES

Comprehensive model scale 1: 50

- © Approach flow conditions upstream of spillway and power intake
- © Assessment of discharging capacity & pressures on breast wall spillway
- © Performance of stilling Basin
- © Layout of Power House Tail Race Channel





BENEFITS

Finalised Design of Spillway and Power Intake

- R Number of intakes recommended 2 instead of 4
- Optimised design of stilling basin from the considerations of dissipation of energy and flushing of silt
- Five alternative layouts of tail race channel wall studied & finalised considering water level fluctuations ,return velocities and silt deposition

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