



Tala HPP – Powerhouse cavern

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PROJECT DESCRIPTION

Under the project title "Consultancy Services for Implementation of Capacity Building in Monitoring Safety of Hydropower Plants" personnel of Druk Green Power Corporation Ltd. is trained on 5 selected hydropower projects in Bhutan.

- Kurichhu HPP – Surface Powerhouse:**
 Installed capacity: 4 x 15 MW
 Commissioning: 2001
Problem statement: development of air gaps between different blocks of powerhouse building
- Tala HPP – Powerhouse and Transformer Hall Cavern:**
 Dimensions Powerhouse Cavern: 206 m (L) x 20.4 m

(W) x 44,5m (H),
 Dimensions Transformer Hall Cavern: 191 m (L) x 16 m (W) x 26.5 m (H)
 Installed capacity: 6 x 170 MW

Commissioning: 2006
Problem statement: creeping deformations of cavern walls and failure of rock bolts

- Basochhu HPP:**
 Installed capacity:
 Upper stage: 2 x 12 MW
 Lower stage: 2 x 20 MW
 Commissioning:
 Upper stage: 2002
 Lower stage: 2005
Problem statement: safety monitoring of the whole power plant complex
- Dagachhu HPP:**
 Installed capacity: 2 x 63 MW
 Commissioning: 2015
Problem statement: safety

monitoring of the whole power plant complex

- Kuri – I HPP:**
 Installed capacity (designed): 1125 MW
 Project phase: preparation of Detailed Project Report
Problem statement: Identification and validation of geotechnical hazard scenarios during design phase

GROUND CONDITIONS

All projects are situated in metamorphic rocks of the Himalayas.

3G TASKS

- Mentoring the special fields of engineering geology, hydrogeology und geotechnics

KEY DATA

PROJECT:

Capacity building in monitoring safety of hydropower plants

TYPE OF PROJECT:

Consulting and mentoring

LOCATION:

Bhutan

PERIOD OF 3G SERVICES:

Since 2015

CLIENT AND OWNER:

Druk Green Power Corporation Ltd.



Dagachhu HPP – Powerhouse cavern

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