# PAKAL DUL HEP HYDROPOWER

## Pakal Dul HEP
## Kishtwar, Jammu & Kashmir, India

**The Pakal Dul H E Project of 1000 MW installed capacity is proposed on river Marusadar. The annual generation will be 3387 GW/h**

### Scope

- Dam of 167 m height
- 2 head racing tunnels of 7.20 m diameter with 10 km length
- Underground Power House with four units of 250 MW each

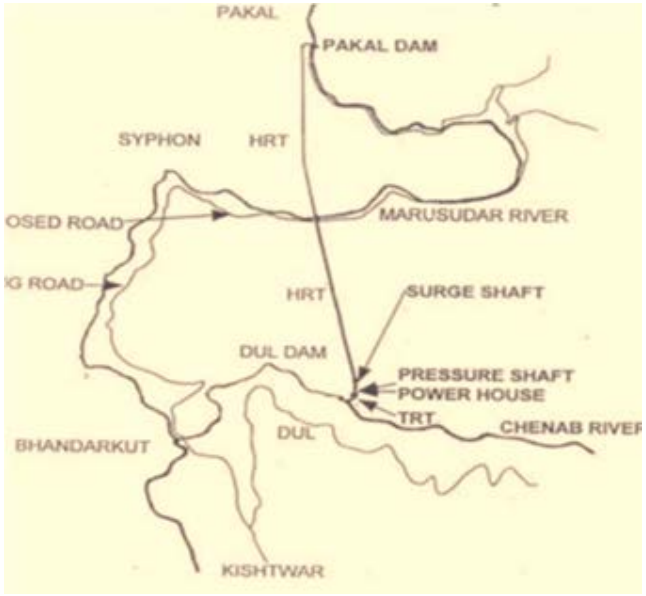
### Amberg Services

**Owner's Engineer in JV:**

- Evaluation of Tenders of Turnkey Bidders
- Review of Design of Turnkey Contractor
- Construction Supervision and Allied Services for project Implementation
- Lead of Engineering JV

AMBERG ENGINEERING

- Reservoir area in the Himalayan mountain




- Pakal Dul HEP project layout

## AMBERG FACTS

### Contracted value JV

- Total 20 Mio. USD (JV Partner Stucky Ltd)

### Contracted value Amberg

- Total 10 Mio. USD

### Project Phases & Duration

- Tender Evaluation 2012 – 2015
- Design and Construction 2016 – 2019

## CLIENT FACTS

### Overall costs

- Total 1'300 Mio. USD

### Overview Project

- Project Salient Features
- 167 m high Concrete Face Rock-fill Dam
- 2 HRT 7.2 m diameter 10 km long
- 2 Surge Shafts 16 m diameter 200 m restricted orifice
- 2 Pressure Shafts 5.6 m diameter 380 m long, bifurcating into 4 3.9 m diameter each 685 m long pipes
- Power House – 4 vertical Francis turbine (250 MW)
- 4 Tail Race Tunnel 5.5 m diameter each 125 m long, horseshoe shaped

### Geology

- Himalayan Crystalline Sequence (HHCS) comprising of highly metamorphosed meta sedimentary rocks ranging from mica schist to granitic gneiss

### Contact person

Chenab Valley Power Projects Private Limited, J&K, India (JV of NHPC Ltd., JKSPDC & PTC India Ltd.)
Mr L. K. Gupta
Chief Engineer (Contracts)
Phone: +91 191 247 5516

AMBERG ENGINEERING

## AMBERG KEY PEOPLE INVOLVED

**Rakesh Pandita**
MSc. Civil Engineering
Project Manager

rpandita@amberg.ch

**Anand Dorougadan**
MSc. Civil Engineering
Project Manager

adorougadan@amberg.ch

**Michael Rehbock-Sander**
MSc. Mining Engineering
General Project Manager, Expert

mrehbock-sander@amberg.ch

**Johann Peter Brasser**
MSc. Civil Engineering
Expert

jbrasser@amberg.ch

AMBERG ENGINEERING