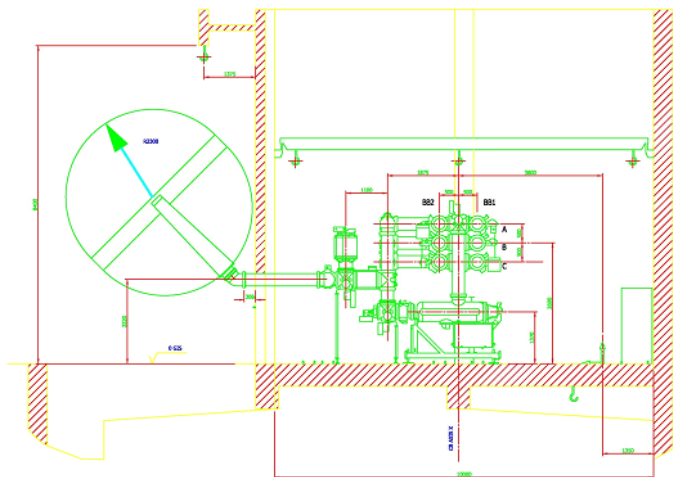




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PROJECT NAME : Design and Tender Preparation of Nam Bak 1 Hydro Power Plant



Owner : South East Asia Energy (SEAN) Thailand

Client : –

Location : Lao PDR

Period of Services : 2009

Project Cost : NA

Scope of Services and Description of Duties :

Nam Bak 1 is located at the distance about 20 km. upstream from the confluence with Nam Ngum, cover 597 km² catchment area. The dam with 85 m. h dam will impound the reservoir volume of 250 mcm. The power plant of NB1 was proposed at downstream of Nam Ngum 2 about 2 km apart. The layout the power waterway consisted of 13.5 km. long headrace tunnel, surge chamber and 660 m. long penstock. Hydro Power Plant has 160 MW.

ATT was responsible for conceptual design and specification of transmission system such as;

- 2 bays of 230 kV GIS equipment
- 2 units of 75/90 MVA 3phase 13.8/230 kV transformer
- 2 lines of 230 kV Transmission line (approx. 2 km) between Nam Bak1 and Nam Ngum 2 Hydro Power Plant
- 2 bays of 230 kV GIS at Nam Ngum 2
- Control and Protection system

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