



NABA HYDROELECTRIC PROJECT

CLIENT:

Andra Power Pvt. Ltd.

LOCATION:

Arunachal Pradesh, India

SCOPE OF SERVICES:

AEMPL engaged to provide Engineering Consultancy Services for preparation of Pre-feasibility Report (PFR), Detailed Project Report (DPR), Preparation Tender Documents of 1000 MW Naba Hydroelectric Project, Arunachal Pradesh and obtaining approval from statutory authorities.

PROJECT DESCRIPTION:

Naba H.E. Project is located in upper reaches of Subansiri River, Arunachal Pradesh. The average river bed level at the dam site is about 870 m and FRL at the dam has been proposed at EL.1035 m. The Project will utilize a gross head of 245 m and design discharge of 468.22 cumecs for generation of 1000 MW.

Naba H.E Project envisages a construction of a 167 m high concrete gravity dam with 2 Nos. of 11 m diameter diversion tunnels as diversion structure, 2 Nos. of power intake with trash rack arrangement, 2 Nos. of 3.1 km & 3.85 km long 8.7 m diameter head race tunnel, 2 Nos. of 23.0 m diameter surge shaft & 85 m high, 2 Nos. of 7.25 m diameter steel lined pressure shaft which include penstock of dia. 5.75 m on bifurcation. Underground power house housing 4 units of 250 MW each. Design Energy is 4249.42 MU in 90% dependable year.

The following are the activities have been completed by AEMPL as on date:

- Preparation of hydrological studies including water availability, design flood and diversion flood studies.
- Power Potential Studies has been carried out in assessing the installed capacity of project.
- Preparation of Pre-feasibility stage design, drawings and report for Civil, Hydro-mechanical and Electro-Mechanical components of Naba HEP.
- Cost Estimation and Financial Analysis has done at Pre-feasibility stage.