



YAMNE – II HYDROELECTRIC PROJECT

CLIENT:

S S Yamne 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), Concept to Commissioning Consulting Services of 90MW Yamne – II HE Project, Arunachal Pradesh.

PROJECT DESCRIPTION:

Yamne Stage – II H.E. Project is located in the Upper Siang District of Arunachal Pradesh on Yamne river. The average river bed level at the barrage site is about EL. 517 m and FRL at the barrage has been proposed at EL. 536.0 m. The Project will utilize a gross head of 96.0 m and design discharge of 117.32 Cumecs for generation of 90 MW.

Yamne – II H.E Project envisages of 22 m high Barrage with diversion tunnel & channel as diversion structure, 20m wide approach channel, 2Nos of De-silting Basin, 1No.of Power Intake with trash rack arrangement, 1No. of 6.5 m diameter head race tunnel&6.34 km long, 1No.of 19.0 m diameter surge shaft&93.80 m high, 1No.of 5.5 m diameter pressure tunnels & 187.21 m long . A Surface power station housing 3 units of 30 MW each. Design Energy is 367.43 MU in 90% dependable year.

The following detailed activities were involved in carrying out the works for preparing the DPR:

- Approval of ToR from Ministry of Environment and Forest for carrying out field investigations
- Approval of Water Availability and Flood Estimation Studies from CWC
- Approval of Power Potential Studies from CEA
- Topographical survey and Geological and Geotechnical Investigation Works
- Preparation of Pre-feasibility stage design, drawings and report for Civil, Hydro-mechanical and Electro-Mechanical components of Yamne – II HEP.
- Preparation of Detailed Project report which includes detailed design of civil, hydro-mechanical and electromechanical components including drawings
- Cost Estimation and Financial Analysis