

Teesta III 1200MW,Sikkim,India

Location : Sikkim, India

Client : Teesta Urja Limited (A Govt. of Sikkim Enterprise)

Project Overview :

The Project components are located in the North Sikkim district of the state of Sikkim with Dam at the Chugthang Village and the Power House site at Singhik. The project utilizes the fall of head in the River course, of about 800 meters between these two villages.

Main Components of the Project :

- 60 high Concrete Faced Rockfill Dam (CFRD)
- 2 Nos. Desilting Chambers to separate silt particles of more than 0.2 mm size.
- 13.8 KM long Head Race Tunnel of 7.5 M diameter (horse-shoe shape) with design discharge of 175 cumecs.
- 150 M high Surge Shaft of 15 M diameter.
- 2 Nos. 1127 M long Pressure Shafts of 4.0 M diameter each of which 659 m Vertical and 468 m inclined.
- Underground Power House of 21.5 M x 48 M x 215.5 M for housing 6 units of 200 MW each vertical Pelton turbines.
- 1080 M long D-shaped Tail Race Tunnel of 8.0 M x 8.0 M size.

Our Role:

EIPL provided Consultancy services for Design & Engineering and Construction Supervision & Project Management for the Project.

EIPL's Scope of Work included:

- Review and preparation of revised DPR ,assistance in obtaining Approval from Central Electricity Authority of India (CEA)
- Preparation of Detailed Tender documents & Drawings, evaluation criteria for selection of contractors for Civil, Hydro-Mechanical, Electro mechanical Packages.
- Assistance in tendering and award of the entire infrastructure works, civil, hydro-mechanical, electro-mechanical contracts

- Detailed Design Engineering for Civil and Review Engineering for Hydro-mechanical and Electro-Mechanical components
- Supervision of the various project components construction, assembly, erection, installation, green-testing, pre-commissioning and commissioning tests/works.

The First unit of the Project is scheduled to be commissioned in December 2016 and all the other units will be successively commissioned by March 2017.