

THAC MO

Viet Nam



Existing Power Station

DESCRIPTION

The Project is located in the south mountainous area of Vietnam, and administratively belongs to the Binh Phuoc Province. The project is in the same area with the exiting Thac Mo Hydropower Station. The nearest town of Phuoc Long is located 6km away from the project area where is along the upstream of the Be River at about 160km north of Ho Chi Min City. The structure site of the Project is located at an altitude of 110m - 220m at

neighboring northern area to the existing Thac Mo Hydropower station. The Existing Thac Mo Power Station, which has two 75MW Francis type turbines, was commissioned in 1995 and supplies power to the National Power Grid of EVN covering the southern part of Vietnam. The station was designed as a semi-base load station with a capacity factor of 46% and an annual average energy production of 610GWh. For the Thac Mo Power Station Extension Project, the addition of more generating plant (75MW) is an economical method of increasing peak load capacity, since the major parts of the infrastructure such as dam, spillway, roads, communications and operation and maintenance facilities and staff are already in place.



NAME OF CLIENT:

Electricity of Vietnam (EVN) : D/D Review, S/V

CAPACITY: 75MW

SERVICES:

Detailed Design Review (May 2006 - December 2006)

Construction Supervision (May 2007 - April 2010)



Dam Plan

Principal Characteristics of Project

| | | Extension | Existing |
|----------------------------|----------------------------|-----------------------------|---------------------|
| Catchment Area | | 2,370km ² | |
| Reservoir | Total Storage Capacity | 1,360,000,000m ³ | |
| | Effective Storage Capacity | 1,250,000,000m ³ | |
| | Available Depth | 20m | |
| Main Dam | Type | Earthfill | |
| | Height X Crest Length | 46m x 464m | |
| Right Dam | Type | Earthfill | |
| | Height X Crest Length | 13m x 1,076m | |
| Spillway | Type | Radial Type x 4 | |
| | Design Discharge | 4,120m ³ /s | |
| Penstock | Type | Tunnel Type | Surface Type |
| | Length | 697m | 588m |
| | Diameter | D4.9m x 1 | D4.7m x 2 |
| Power House | Type | Surface Type | |
| Turbine - Generator | Number of Units | 1 | 2 |
| | Type | Francis | Francis |
| | Design Discharge (Unit) | 93m ³ /s | 93m ³ /s |
| | Design Head | 90m | 90m |
| | Unit Capacity | 75MW | 75MW |

Thac Mo

