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 Phuoe 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

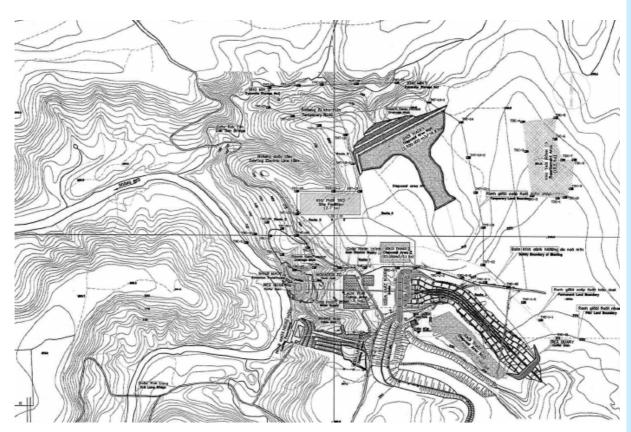
CAPACITY: 75MW

SERVICES:

Detailed Design Review (May 2006 - December 2006)

Construction Supervision (May 2007 - April 2010)





Dam Plan

Principal Characteristics of Project

		Extension	Eviating	
			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	20)m	
Main Dam	Туре	Earthfill		
	Height X Crest Length	46m x	46m x 464m	
Right Dam	Туре	Ear	Earthfill	
	Height X Crest Length	13m x ²	13m x1,076m	
Spillway	Туре		Radial Type x 4	
	Design Discharge	4,120m³/s		
Penstock	Туре	Tunnel Type	Surface Type	
	Length	697m	588m	
	Diameter	D4.9m x 1	D4.7m x 2	
Power House	Туре	Surface Type	Surface Type	
Turbine - Generator	Number of Units	1	2	
	Туре	Francis	Francis	
	Design Discharge (Unit)	93m ³ /s	93m ³ /s	
	Design Head	90m	90m	
	Unit Capacity	75MW	75MW	

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