

EGAT's Hydroelectric Power Plant Project

1. Project name : Kaeng Krung # 1-2
2. Type of generation : Pondage
3. Description and scope of project

a) Location

This project will be located in Khiriratnikhom District, Surat Thani Province. The dam will be constructed across the Yan Canal at a site 40 km. away from the Yan Canal and Pum Duang River confluence.

b) Dam and reservoir

The dam is a concrete faced rockfill type with a crest elevation of 158.76 m. MSL and a crest length of 520 m. The normal level of storage is 154.50 m. MSL at which the surface area is 37.8 square km.

c) Power plant

The power plant will be on the right bank of Yan Canal. It will house two units of generator and vertical Francis turbine. The total capacity will be 80 MW and the average annual energy generation will be 178 GWh.

4. Project cost (Million Baht)

| | <u>FC</u> | <u>LC</u> | <u>Total</u> |
|--|-----------------|-----------------|-----------------|
| a) Preliminary works | 0.00 | 187.31 | 187.31 |
| b) Compensation, resettlement and environmental impact mitigation plan | 0.00 | 65.18 | 65.18 |
| c) Civil works | 672.90 | 465.94 | 1,138.84 |
| d) Hydraulic equipment | 93.94 | 30.14 | 124.08 |
| e) Electro-mechanical equipment | | | |
| -Turbine | 77.58 | 7.55 | 85.13 |
| -Generator | 72.04 | 7.01 | 79.05 |
| -Others | 59.30 | 5.90 | 65.20 |
| f) EGAT administration | 0.00 | 48.03 | 48.03 |
| g) Engineering consulting service | 65.89 | 30.04 | 95.93 |
| h) Import duties, taxes and IDC | 0.00 | 391.63 | 391.63 |
| Total | <u>1,041.65</u> | <u>1,238.73</u> | <u>2,280.38</u> |

5. Tentative schedule

- a) Government approval : April 1988
- b) Bidding : June 1988
- c) Construction : October 1988
- d) Commissioning : December 1993