

EGAT's 500 kV EHV System

1. Project name : Transmission System for Mae Moh # 10

2. Project description

The project requires the construction of the 2nd circuit of 500 kV transmission line to link Mae Moh 4 and Tha Tako Substations for a distance of 326 km. Another 500 kV transmission line from Mae Moh 3 Substation to Mae Moh 4 Substation which is 5 km away is also part of the project. The transmission lines are made of 4x795 MCM ACSR conductors. The project also requires the expansion of the 500 kV Mae Moh 3 and the construction of Mae Moh 4 Switchyards, the 500 kV Tha Tako Substation and the 500 kV Nong Chok Substation at which a transformer rated 500/230 kv, 600 MVA will be installed.

3. Project cost (Million Baht)

	<u>EC</u>	<u>LC</u>	<u>Total</u>
a) Mae Moh 4 - Tha Tako (4x795 MCM ACSR, SC/ST, 326 km)	625.9	410.8	1,036.7
b) Mae Moh 3 - Mae Moh 4 (4x795 MCM ACSR, SC/ST, 5 km)	9.6	5.2	14.8
c) 500 kV Mae Moh 3 Switchyard expansion	25.1	5.6	30.7
d) 500 kV Mae Moh 4 Switchyard	113.9	26.2	140.1
e) 500 kV Tha Tako Substation expansion	53.8	8.6	62.4
f) 500 kV Nong Chok Substation expansion and addition of 500/230 kV 600 MVA transformer	125.9	17.1	143.0
g) Communication system addition	5.8	1.0	6.8
h) Engineering and contingencies	64.5	133.5	198.0
i) Escalation	26.0	52.5	78.5
j) Import duties, taxes and IDC	0.0	452.5	452.5
Total	<u>1,050.0</u>	<u>1,113.0</u>	<u>2,163.5</u>

4. Tentative schedule

- a) Government approval : Mid 1987
- b) Bidding : May 1990
- c) Construction : February 1981
- d) Commissioning : Jul 1993