

## **Kapar 500 / 275 kV High Voltage Substation KL-North System Extension Successful Commissioning**

The KAPAR 500 / 275KV substation is now finally interconnected with the KL-North 275 kV substation. The commissioning and charging of the system was successfully completed on the 28<sup>th</sup> January 2007.

This was the desperately needed interconnection to increase network stability of the high voltage transmission grid in Peninsula Malaysia and to complete the Central Area Reinforcement (CAR) project.

InCONTROL Tech Sdn. Bhd. (formerly know as VA TECH SAT Sdn. Bhd.) has done the retrofitting work to design, manufacture, test, parameterize, install and commission the Control and Relay Panels (CRP) to replace the existing:

- Main-1 Distance (Optimho),
- Main-2 Distance (THR4P21),
- Backup OC/EF and
- Synch + AR relays

to the new:

- Main-1 Line Differential (REL551),
- Main-2 Line Differential (7SD522),
- Backup Distance (REL511) and
- Synch + AR (KAVR130)

relays respectively.

iTEC has done the new installation and rewiring by record breaking time of 23 hours continuously present at site with three (3) teams of specialists and handed over for overall feeder testing one (1) hour before the expected time.

Engineers from iTEC were available at site round the clock to extend its support to complete the testing and made the circuit ready for final commissioning.



Figure-1: Front



Figure-2: Inside

Our Promises and Commitment is our strength and Service is our Success, we have done it again.