



**Ulu Jelai Hydroelectric Project Visit**  
by Ir. Khoo Chee Min

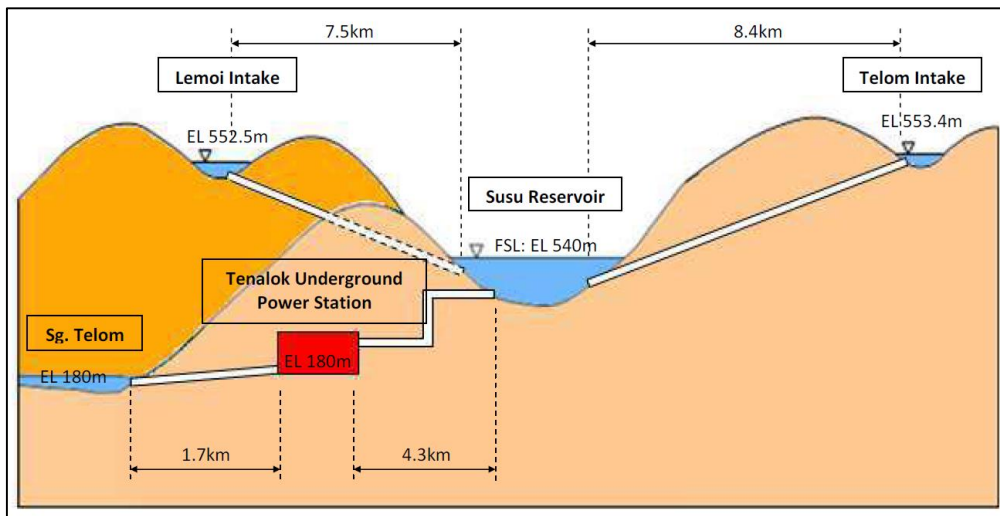
Ir. Khoo Chee Min is currently a committee member of Tunneling and Underground Space Technical Division (TUSTD).

A visit to TNB Ulu Jelai Hydroelectric Project was organised by IEM Tunnelling And Underground Space Technical Division (TUSTD) on 04 September 2014. Altogether nine engineers participated in the trip.

We were met on arrival at 11:45a.m. by En. Mohamad Ardan Bin Zubir, the Resident Engineer of TNB Major Projects Department, Energy Venture Division. TNB project team including the consultant’s Assistant Resident Engineer gave us a brief overview of the project as well as a Safety Induction by TNB Safety Officer.

**BRIEFING**

The project site is at Cameron Highlands in the state of Pahang. This 372MW underground power station, as of Entry Point Projects under the Economic Transformation Programme will generate peaking energy to the national grid when it will be completed in 2016. The main features of the project are the 88m high Roller Compacted Concrete (RCC) Susu Dam, two diversion weirs on Sg.Lemoi and Sg.Telom diverting flows from adjacent catchments to the dam via two 7.5km and 8.4km long transfer tunnels, an underground power house and associated water conveyance as well as the access road network.



Schematic Layout

## SITE TOUR

After the briefing TNB treated our group to lunch before we proceeded to a site tour with TNB project engineers. The JKR road diversion was completed, placement of concrete for the Susu Dam was on-going, diversion conduit was completed, construction of the underground power house complex was still in progress, the Lemoi underground tunnel has achieved breakthrough while the Telom TBM underground tunnel was still in progress. Fabrication and installation for M&E services and the Generation Control Building were in progress. New quarters were also built for resettlement of orang asli at Kg.Susu, Kg. Sg.Pinang and Kg.Tiat.



Susu Dam – RCC Construction



Tailrace Tunnel



Underground Power House

At end of the tour, TUSTD session chairman presented TNB with a memento as appreciation for hosting the site visit and thanked TNB Energy Venture Division for their warm reception.