



The Institution of Engineers, Malaysia

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Talk on Construction of Hulu Terengganu Hydroelectric Project
Organised by: Tunnelling & Underground Space Technical Division, IEM
BEM Approved CPD/PDP Hours: 2 Ref. No. : IEM16/HQ/461/T

Date : **17 November 2016 (Thursday)**
Time : **5.30 pm – 7.30 pm** (*Refreshment will be served at 5.00 pm*)
Venue : **Auditorium Tan Sri Prof. Chin Fung Kee, Third Floor, 3rd Floor, Wisma IEM.**
Speaker : **Ir. Loke Chee Keen**

SYNOPSIS

The HULU TERENGGANU HYDROELECTRIC PROJECT is developed by Tenaga Nasional Berhad and the main civil work (Lot CW2 Works) was awarded to Loh & Loh – Sinohydro Joint Venture. The project commenced on 20 May 2011 and completed on schedule on 18 December 2015, a contract period of 1674 days.

Four separate contracts were awarded to others under the following main contracts:

1. Lot CW1 Work – Preliminary works
2. Lot EM1 Works – Electrical and Mechanical Works
3. Lot EM2 Works – High Voltage Switchyard
4. Lot EM3 Works – Electrical and Mechanical Works at Tembat Power House

The main project components of Lot CW2 Works consist of :

1. A gated spillway;
2. Puah Dam - Zoned earthfilled embankment dam;
3. Puah Power Intake and headrace tunnel;
4. Underground Power House installed with two vertical Francis turbines;
5. Access tunnels and construction adits;
6. Tailrace Tunnel and Tailrace Outlet Structure;
7. Generation Control Building and associated buildings;
8. Switchyard platform;
9. Access roads; and
10. Tembat Dam – concrete gravity dam for sub-catchment water transfer.

The Tembat Water Transfer Scheme was later separated from the Lot CW2 Contract after a power house was incorporated at the Tembat Transfer Tunnel outlet. The Tembat Civil and Associated Works (Lot CW3) consist of the following components:

1. Tembat Power Intake;
2. Tembat Transfer Tunnel;
3. Tembat Access Tunnel; and
4. Tembat Power House installed with two horizontal Francis turbines.

BIODATA OF SPEAKER

Loke CK has been involved with the Hulu Terengganu Hydroelectric Project since the project commenced on 20 May 2011. He was the Senior Technical Manager under the management of Loh & Loh Constructions Sdn Bhd assigned for construction of surface works, which include Puah Dam, Spillway, Switchyard Platform and all buildings. He obtained Degree in Civil & Environmental Engineering from University of Newcastle, Tyne, UK in year 1988

He assumed the position of Project Manager of the Loh & Loh – Sinohydro Joint Venture management since 01 January 2015. design and construction. Experienced at working to ISO standards of quality control.

Ir. Syed Rajah Hussain Shaib
Chairman
Tunnelling & Underground Space Technical Division, IEM

ANNOUNCEMENTS TO NOTE

- Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required). Telephone and/or fax reservation will NOT be entertained.
- **Non members** may also attend the talk but will need to pay a registration fee of **RM50** and an administrative fee of **RM15**. GST is inclusive.
- For members of affiliated organisations, there will be no registration fee payable. However, they are requested to produce their membership card as proof of membership. For the list of affiliated organisations, please refer to IEM website at www.myiem.org.my under International/MoU.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are required to produce membership cards for confirmation of attendance (CPD purpose).
- Latecomers will not be allowed to enter if the lecture hall is full nor be entitled to CPD.
- **IEM members who fail to produce their membership cards will be charged a fee of RM25.00. GST is inclusive.**

ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of **RM15** is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

CPD HOURS CONFIRMATION

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Membership No:

Signature:

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