

## TECHNICAL VISIT TO TNB MANJUNG FIVE SDN BHD

(Organized by Oil, Gas and Mining Technical Division, IEM)

BEM Approved CPD/PDP Hours: 2 Hours

Ref no: IEM19/HQ/127/V

**Date** : 10<sup>th</sup> April 2019 (Wednesday)  
**Time** : 7.30am – 4.00pm  
**Venue** : SJ Sultan Azlan Shah, 32200 Seri Manjung, Perak .  
**Transport** : COACH WILL BE PROVIDED FROM  
 BANGUNAN INGENIEUR, PJ, SELANGOR  
 (Coach will depart at 8.00 am sharp)

### SYNOPSIS

Manjung Five (M5) is situated on a man-made island at the site of Sultan Azlan Shah Power Station in Manjung, Perak. It is about four hours drive from Kuala Lumpur or about two hours drive from Ipoh. The Tenaga Nasional Bhd's (TNB) RM6 billion coal-fired power plant, commenced operations on 28<sup>th</sup> September 2017, three days ahead of its targeted date of October 1, 2017.

The construction of M5 in Lumut, Perak took 45 months and the 1,000- megawatt plant utilised ultra-supercritical (USC) technology, the current gold standard for coal-fired plants in the world. TNB worked closely with the appointed contractors, a consortium comprising Sumitomo Corp of Japan and Daelim Industrial Co Ltd of South Korea. The plant's operator is TNB Manjung Five Sdn Bhd. M5 will increase TNB's coal-fired generation capacity to almost 5,000MW, representing about a quarter of Peninsular Malaysia's installed capacity.



TNB improves the efficiencies of its fleet of thermal plants by deploying the latest USC technology for new coal power plants as it was committed to adopt clean and efficient technologies in power generation. To-date, TNB owns two ultra-supercritical coal-fired plants, namely M5 and its neighbour, M4. Both are the first two ultra-supercritical coal-fired plants in ASEAN. The use of USC technology enables the plant to convert energy more efficiently, burning less coal for more power while complying with emission standards. The plant also meets stringent environmental standards set by the World Bank and the Malaysian Department of Environment (DOE). This ensures that the cost of generating electricity is minimised and remains friendly to the environment and communities nearby.

For this technical visit, participants will be able to see the overview of the processes and operation of a USS coal power plant.

### Commitment fees (inclusive of SST) (Non refundable & non transferable)

IEM Member	: RM 80.00
Non Member	: RM 120.00

(STRICTLY REGISTRATION AND PAYMENT  
VIA IEM ONLINE)

## ITINERARY OF THE VISIT

TIME	ITINERARY
7:30AM - 8:00AM	Registration and depart from Bangunan Ingeniur, Petaling Jaya
12:30PM- 1.45PM	Arrival in Manjung & Lunch
2.00PM	Arrival at TNB Manjung Five Sdn Bhd
2:10PM - 2:40PM	Welcome remarks, safety & corporate briefing by TNB M5
2:45PM - 3:30PM	Plant Tour
3:30PM - 4:00PM	Q & A Session & Refreshment
4:00PM	End of Session

**Please bring your own Personal Protective Equipment (PPE)**

- ✓ Safety Shoes

- ✓ The visit is strictly limited to **25 participants** registered on a first-come, first-served basis.
- ✓ Interested participants are to register and pay online at [www.myiem.org.my](http://www.myiem.org.my) or register by returning the appended registration form **before 5<sup>th</sup> April 2019** together with the payment.
- ✓ Cheques are to be made payable to **The Institution of Engineers, Malaysia.**
- ✓ Please note that the commitment fee must be settled prior to the visit. Payment on the day of the visit is not acceptable.
- ✓ After this closing date, IEM reserves the right to allocate seats on first come first pay basis.
- ✓ Members are also reminded that if a place is reserved, IEM *may* cancel the reservation if payment is not received.

### PERSONAL DATA PROTECTION ACT

I have read and understood the IEM's Personal Data Protection Notice published on IEM's website at <http://www.myiem.org.my> and I agree to IEM's use and processing of my personal data as set out in the said notice.

### REPLY SLIP

(Fax to: 03-7957 7678) (Email: [suriani@iem.org.my](mailto:suriani@iem.org.my))

## Technical Visit TNB Manjung Five Sdn Bhd

I wish to participate in the above visit on **10 APRIL 2019**. I enclosed herewith a cheque No.....for the amount of RM..... as my commitment fee for the visit.

Name: ..... Member No: ..... Grade : .....

Company:..... Designation : .....

Contact number : ..... IC Number : .....

Email address : ..... Company address .....

*I will be participating in the visit at my own risk and hereby indemnify fully the IEM from all claims arising from any injury, damage or loss that may be sustained by me.*

**Chairman Session 2018/2019**

**Ir. Roznan Abdul Rashid**

**Oil, Gas and Mining Technical Division, IEM**