



The Institution of Engineers, Malaysia

Bangunan Ingenieur, Lots 60/62, Jalan 52/4, Peti Surat 223, 46720 Petaling Jaya, Selangor Darul Ehsan
Tel: 03-79684001/2 Fax: 03-79577678 E-mail: sec@iem.org.my IEM Homepage: http://www.myiem.org.my

Talk on Design and Construction Considerations for Steel Struts in Excavation of KVMRT Project in Malaysia

Organised by the Geotechnical Engineering Technical Division, IEM

BEM Approved CPD/PDP Hours: 2.0 Ref No: IEM15/HQ/245/T

Date/Day : 11 August 2015 (Tuesday)

Time : 5.30 pm – 7.30 pm

Venue : Tan Sri Ir. Prof. Chin Fung Kee Auditorium, 3rd Floor, Wisma IEM, PJ

Speaker : Ir. Loh Yee Eng (Ms.)

SYNOPSIS

Steel strutted Temporary Earth Retaining System (TERS) is probably the most common shoring support method for deep excavation. Therefore, good understanding of fundamental structural steel design in association with imposed loadings from geotechnical analysis is a key to successful implementation in deep excavation projects. Yet, merely understanding the structural steel design is inadequate to design the steel strutting safely and economically in TERS projects unless appropriate mobilised geotechnical loadings at various construction stages are carefully assessed. In fact, safe and economical design can be achieved when the geotechnical engineer is able to bridge the gap in complicated soil-structure interaction between geotechnical analysis and structural design with practical design considerations. This evening talk will discuss the current common practices by Malaysia's geotechnical engineers/specialist strutting contractors and the design and construction considerations for steel strutting elements for Klang Valley Mass Rapid Transit (KVMRT) project in Malaysia. The design of steel strutting elements for KVMRT project is in accordance with the limit state design concept in BS5950 and recommendations of CIRIA Special Publication 95 (SP95).

PROFILE OF SPEAKER



Ir. Loh Yee Eng, started TRIGEO Consultant in May 2015 after six years services in G&P Geotechnics Sdn Bhd. She obtained her degree in Bachelor of Civil Engineering from University of Technology Malaysia in year 2000 and Master of Science from the National University of Singapore in year 2007.

Prior to joining G&P in February 2009, she had worked with geotechnical specialist contractors and consultant in Singapore for 9 years, concentrating on the deep excavation, foundation for high-rise buildings and ground improvement. Whilst in G&P, she undertook various projects including the geotechnical design of Platinum Park and The Robertson, geotechnical review of KL118 and Belfield Tunnel, internal checker for temporary works of KV-MRT line 1 and Damansara Uptown project.

Currently, Ir. Loh is a principal for TRIGEO Consultant and provide consultancy services on finite element analysis using PLAXIS and CRISP, foundation design, earth retaining wall design including the design of wall, strutting, ground anchor and ground improvement.

ANNOUNCEMENTS TO NOTE

1. 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.
2. **Non members** may also attend the talk but will need to pay a registration fee of **RM 50** and an administrative fee of **RM 15**. GST is inclusive.
3. 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.
4. Limited seats are available on a "first come first served" basis (maximum 100 participants).
5. IEM members are required to produce membership cards for confirmation of attendance (CPD purpose).
6. Latecomers will not be allowed to enter if the lecture hall is full nor be entitled to CPD.
7. *IEM members who fail to produce their membership cards will be charged a fee of RM 25. GST is inclusive.*

ADMINISTRATIVE FEE

1. Kindly be informed that an administrative fee of RM 15 is payable for talks organized by IEM.
2. The fee would be used to cover overhead costs, building maintenance expenses as well as to contribute to Wisma IEM Building Fund.
3. All contributions will be deeply appreciated by IEM.
4. Student Members are however exempted.

CPD/PDP HOURS CONFIRMATION

Name:

Membership No/Grade:

Signature:

=====
Ir. Yee Thien Seng
Chairman
Geotechnical Engineering Technical Division, IEM