

The Institution of Engineers, Malaysia

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Technical Talk on Sub-Structure Design for Proposed Mixed Development at Persiaran KLCC,
Kuala Lumpur City Centre, Lot 185 (Package 2)

Jointly Organized By: Women Engineers Section & Geotechnical Engineering Technical Division, IEM BEM Approved CPD/PDP Hours: 2 Ref: IEM18/HQ/152/T

Date : 3rd May 2018 (Thursday)

Time : 5.30 pm – 7.30 pm

Venue : Auditorium Tan Sri Prof. Chin Fung Kee, Wisma IEM

Speaker: Ir. Sofiana Balkhis Talha

SYNOPSIS

The Proposed Lot 185, 167, 176 Mixed Development, Kuala Lumpur City Centre (KLCC), will be developed on a land area of 4.231 acres, next to KLCC Twin Tower. The mixed development consists of 56-storey hotel tower on Lot 185 and 77-storey office tower on Lot 167, 6-storey retail podium and 4-6 level basement car parks. Currently, the semi-top down sub-structure construction is about to finish and the constructions of the 6-storey retail podium, hotel tower and office tower are scheduled to start soon. The site is located on Limestone bedrock and the design work involved deep excavation of 21.5m - 25.5m below ground level that exposed the residual soils of Kenny Hill Formation. The sides are supported by reinforced concrete diaphragm walls of 1.0 m thick and 33.0m deep. The 56-story tower will be supported by 2.0 m and 2.2 m diameter bored piles of 75.0 m long in soil with working loads of 42 MN and 50 MN. One reaction system pile load test and an Osterberg-cell load test on fully instrumented bored piles were conducted at this site. The talk touches on the substructure design of the diaphragm wall and soil-structure interaction design of bored piles. The predicted versus observed movements of the diaphragm wall is also discussed.

BIODATA OF SPEAKER



Ir. Sofiana Balkhis Talha is a registered Professional Engineer with the Board of Engineers, Malaysia and holds a B.Eng (Hons) in Civil Engineering from University of Brighton which she obtained in 1992 and MSc in Soil Mechanics and Environmental Geotechnics from Imperial College of Science, Technology and Medicine in 1993. She started her career in a multi-discipline engineering consulting firm in 1993 as a Geotechnical Engineer and held the last post as an Associate Director. In 2006, she took a break from the construction industry to lecture at the Faculty of Civil Engineering, UiTM

Shah Alam and taught several Diploma and Degree subjects besides some consultancy works. In 2007, she joined Structural and Geotechnical Division at Ranhill Bersekutu Sdn Bhd and currently is the Acting Division Director. For the past 25 years, she has involved herself in managing, analysis, design and construction of various geotechnical works and aspects including shallow & deep foundations, deep excavations & earth retaining structures, slope stability analyses & stabilization and soft ground soil improvement design. She has worked on various projects both locally and overseas such as Reference Design (RDC04) of MyHSR Project, Kuala Lumpur International Airport 2, University Pahang Malaysia (KUKTEM), Iskandar Medini, Senai Desaru Expressway, Langat 2 Water Treatment Plant, 3 High Rise Towers at Jalan Ampang, KLCC Mixed Development at Persiaran KLCC, Residential Apartments in Tajura and Benghazi Libya, Jeddah East Lake Dam Saudi Arabia, Twin Towers Astana Kazakhstan, etc. She also served as chairperson and co-chairperson for many geotechnical conferences and forums.

Ir. MAH SIEW KIEN Chairman Women Engineers Section | Ir. LEE PIER TIEN | Chairman

| Geotechnical Engineering Technical Division

NOTE: Fees Announcement (Effective: 1st October 2017)

Members:

- (i) Registration Fee: No Charge
- (ii) Administrative Fee:
 - (a) Online RM15
 - (b) Walk-In RM20

Non-Members:

- (i) Registration Fee : RM50 (ii) Administrative Fee : RM20
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- To secure your seat, kindly register online at www.myiem.org.my

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