IEM
The Institution of Engineers, Malaysia

Organised by Geotechnical Engineering Technical Division (GETD)

RECORDED WEBINAR

GEOTECHNICAL CHALLENGES IN THE DESIGN AND CONSTRUCTION OF DEEP EXCAVATION WORKS AT SLOPE ALONG PERSIARAN KERJAYA, SHAH ALAM WITHIN THE KTMB AND ROAD RESERVE

In Conjunction with World Engineering Day Celebration from 1st March till 7th March 2025

Ir. Ts. Syahmizzi Ifwat bin Azharnim

6 MARCH 2025, THURSDAY

4.30PM - 6.30PM

BEM Approved CPD: 2
Ref. No.: IEM24/HQ/366/T(w)

Registration Fees
Student Members : Free
IEM Members : RM 15.00
IEM Non Members : RM 70.00
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SYNOPSIS

It is inevitable to design and construct any structures and infrastructure with the presence of existing structures, utilities, buildings, etc surrounding the project boundary in built-up areas. Similar to geotechnical works, especially with the involvement of complex ground conditions and terrain as well as the presence of critical and major existing structures/utilities. There will be significant design and construction activities in handling projects in brownfield areas that require an extensive and advanced geotechnical solution to ensure the stability of existing structures/buildings/utilities, public safety, and compliance with Authorities' requirements and guidelines.

This session will cover the geotechnical challenges and its solutions in the design and construction of deep excavation works at the slope area in the Persiaran Kerjaya, Shah Alam within the JKR Road Reserve and also adjacent to the KTMB reserve. The deep excavation using a Contiguous Bored Pile Wall with a temporary support system is adopted to minimise the adverse impact on the surrounding ground and existing structures/utilities. The construction work was supplemented with extensive geotechnical instrumentation and monitoring works at site during construction.

SPEAKER'S PROFILE

Syahmizzi is currently a professional engineer with more than 11 years' experience in geotechnical engineering (more than 9 years in an engineering consultancy firm and 2 years in an educational institution). Syahmizzi, a MSc. Geotechnical Engineering and BEng (HONS) Civil holder, currently working as Manager of Geotechnical & Underground Space Division in Minconsult Sdn Bhd (a Multi-disciplinary International Engineering Consulting Firm) and Deputy Head of Research Centre, Minconsult Centre of Excellence (MiCOE). He is also actively involve in The Institution of Engineers Malaysia (IEM) through his contribution as Secretary/Treasurer of IEM - Tunnelling & Underground Space Technical Division (TUSTD) 2024/2025 and Committee Member 2023/2024.

He has wide experience in geotechnical engineering design and construction including soil investigation works, foundation (shallow and deep foundation), slope stabilisation and protection works, earthworks, earth retaining stabilizing structure (ERSS), deep excavation and its support system, underground space and tunnelling works, soft ground engineering and ground improvement works, geotechnical instrumentation and monitoring works, etc. He has been involved in mega projects such as KVLRT3, LRT Mutiara Line Pulau Pinang, High-Speed Rail KL-Singapore, KVMRT3 Feasibility Study, Local and International Power Plant Projects, Large-scale Infrastructure and Highway Projects, Residential Development, Jetty and Marine Projects, etc.