



**ORGANISED BY GEOTECHNICAL ENGINEERING TECHNICAL  
DIVISION**

# **WEBINAR ON HELICAL PILES - A SIMPLE, CLEAN & NONE VIBRATION VERSATILE PILING SYSTEM**

**Speaker : Ir. Khor Sek Gay**

**BEM Approved CPD/PDP: 2 Ref. No.: IEM20/HQ/189/T (w)**

**THURSDAY, 22 OCTOBER 2020  
2PM - 4PM**

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**Registration Fees  
(effective 1st August 2020)**

**IEM Members : RM 15.00  
IEM Non Members : RM 70.00**

**Register online | [www.myiem.org.my](http://www.myiem.org.my)**

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# SYNOPSIS

Helical pile/ anchor is screwed into the ground by torsion from hydraulic machine, in simple say it is screwing a big screw into soil. Helical piles can be extended by jointing the extension shaft till a required depth or a suitable bearing soil stratum is reached. Load is transferred to the soil through the helix bearing plate. Piles sections are joined with bolted couplings. Without augering out and removing the soil, the helix plate screws into ground with the standard 3" pitch in minimizing soil disturbance. The benefits of no vibration, no spoils and quick installation make helical piles as an alternative piling foundation to micropiles and jack-in piles.

Topics :

- 1) History of Helical Piles & Developments
- 2) Code of Design, Test & Performances Requirements
- 3) Design Mode Failure
- 4) Correlation of ULT & PDA
- 5) Torque Correlation Ratio
- 6) Applications - Pictures

## SPEAKER'S BIODATA

Ir. Khor Sek Gay was graduated with a Bachelor Degree In Civil Engineering from University Teknologi Malaysia in Year 2000. He was the registered member as professional engineer with Board of Engineers Malaysia (BEM) and The Institution of Engineer's Malaysia (IEM). Ir. Khor has started his career with an experience in foundation and geotechnical work in public listed geotechnical specialist Company in Malaysia. In year 2008, he joined multi-national company in construction of industrial process plant in China and Indonesia. In the year of 2012, he established Riye Engineering Sdn Bhd with core business in construction of petrochemical and industrial plant. In concurrent, the Company was investing in research testing and engineering of helical piles and successfully installed first pile in year 2014. Lately, the Company established Helical Pile + Anchor Pte Ltd in Singapore.