



Malaysian Geotechnical Society

WEBINAR – TALK ON “BOREHOLE STABILIZATION” FOR DEEP EXCAVATION, AN ESSENTIAL PART IN BORED PILING / DIAPHRAGM WALL CONSTRUCTION

16th August 2021 (Monday) 5.00 pm – 7.00 pm

BEM Approved CPD Hours: 2 Ref. No.: IEM21/PP/039/T(w)

SPEAKER:

MR. THOMAS DOMANSKI

**Director / Senior Consultant TDA Geotechnical Services Sdn Bhd
Senior Adviser to Bauer (M) Sdn Bhd + Bauer Far East**



SYNOPSIS

Any type of deep excavation whether for Bored Piling, Diaphragm Walls or Contiguous Bored Piling Walls depends on forming a stable borehole with a defined cross-section to receive safely the permanent materials. In modern construction the excavation depth can reach well the range of 100 m and above. The diameters of the Piles reach often sizes of 2.5 m and bigger. Top casings in Bored Piles (Diaphragm Wall none) are rather short and stability beyond need to be secured by stabilization slurry. The boreholes need to penetrate through a variety of different materials and stand open for an extended period. Without a safe stable borehole, it is impossible to produce quality products and work cost-efficient. The understanding and proper usage of a suitable slurry is a key element essential for the delivery of Foundation Elements with high quality and within a reasonable budget. The setting of mechanical and rheological parameters in Specifications is necessary and helpful, but probably insufficient to embrace and control such a key element in the practical implementation of foundation construction with view to the challenges of ground conditions. The proper selection, design, implementation and supervision of slurries on site requires both from Contractors and Engineers to understand how different slurries do function. Only with this knowledge the right decisions in slurry operations can be done in ever changing ground conditions and challenging projects.

This talk is directed to give some help to both, Contractors and Engineers, in understanding how different type of slurries do work. (Which ones should be preferred in what kind of soils.) The better knowledge will help the Contractor to control cost and enhance production. The Engineer will be able to assist in arriving at the appropriate technical choices and decisions and will be able to support the Contractor in unexpected site conditions which all promotes the delivery of a good and economical foundation for the Employer. Let us not forget, both Engineer and Contractor are employed by the Client. Therefore, Contractor and Engineer must work together and support each other as a team which has in mind nothing else but to perform jointly best for their paymaster and uphold high standards within our industry.

SPEAKER'S PROFILE

Thomas Domanski currently holds the positions of Senior Consultant and Proprietor of TDA Geotechnical Services Sdn Bhd Malaysia, Senior Advisor to Bauer SE Asia Pacific, Managing Director of Bauer (M) Sdn Bhd from 1991 to 2020, Regional Director for Bauer SEAsia Pacific 2002 to 2020, Heading 8 Countries. He has a Master of Civil Engineering majoring in Geotechnical Works and Soil Mechanics in 1983 at the Technical University Braunschweig, Germany. He held the Singapore BCA required position of Technical Person and Approved Person for over 20 years. Thomas Domanski spent most of his professional life in South East Asia. In 1988 he joined the Bauer Spezialtiefbau GmbH, a worldwide specialist foundation contractor where he worked in total over 32 years for the Company. In July 2020 he retired from the Bauer Group and formed his own geotechnical Consultant firm TDA Geotechnical Services Sdn Bhd which will serve the market as bridging link between Design, Execution (Contracting) and academics /innovations. He is the author of many papers for international conferences to present his experience in ground improvement, deep piling works and retaining structures.

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