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COMPANY PROFILE

1. BACKGROUND

Dr. Toh Associates Sdn. Bhd. is a continuation of Dr. C.T. Toh Consultant which was set up in January 1989 to undertake consultancy works in geotechnical engineering. The firm is based in Kuala Lumpur and has a small staff of 3 professional geotechnical engineers and 1 engineering geologist. The staff of Dr. Toh Associates Sdn. Bhd. are all from Dr. C.T. Toh Consultant.

The areas of consultancy include:

- Shallow and deep foundations for high rise buildings and bridge structures;
- Deep excavations for basements and other below ground structures using embedded retaining structures;
- Engineering of soft clays and peat for infrastructures and buildings;
- Reclamation of disused tin – mining land
- Soil and rock slope assessment and engineering;
- Landfills for schedule waste and municipal waste;
- Expert witness in arbitration and litigation.

So far most of the works undertaken are within Peninsular and West Malaysia. However a few projects have been undertaken in Bangladesh, Myanmar and Sri Lanka.

Our clients include general civil and structure engineering consultants, contractors, design – build contractors and developers.

Our principle in consulting is provide advice and designs from use of comprehensive methods of analysis that minimizes the assumptions and couple that with practical experience from construction and knowledge of the performance of structures during and after construction.



2. KEY PERSONNEL

- Dr. Toh Cheng Teik (principal, age 65) is a civil engineer a PhD from Monash University Australia for work in soil models and finite elements applied to soft clays. He has 37 years experience in geotechnical engineering including 5 years as a university lecturer and has written about 40 papers in regional and international conferences and journals. He was amongst the first batch of accredited checkers appointed by the Board of Engineer Malaysia. His qualifications and affiliations are: B Eng (Hons), PH D, MIEM, MICE, MASCE, C.Eng, P.Eng. He was deputy chairman of the CIDB committee drafting guidelines on road construction on peat.
- Ir. Chee Sai Kim (principal, age 60) graduated with honours in civil engineering from the University of Florida, United States and worked in general civil engineering for about 4 years and geotechnical engineering for 30 years. Her qualifications are: BSCE, MIEM, P.Eng. She is an expert on deep excavations and construction on peat and soft ground. She is a member of the CIDB committee drafting guidelines for road construction on peat.
- En.Rusli Abdullah (geologist, age 54) has a Masters in engineering geology from the University of Malaya and has worked as an academic and government. His experience includes soil investigations, materials investigation, environmental engineering, slope assessment and slope engineering, bored piles and basement excavations in different geological formations over the last 25 years. His qualifications are: BSc, MSc.
- Ir. Ong Yin Hoe (geotechnical engineer) has a Masters in geotechnical engineering from AIT and has worked as a geotechnical engineer for about 10 years including as resident engineer for foundation works including anchored contiguous bored pile wall, diaphragm walls, bored piles and jack – in piles. He has been involved in the design of highways on soft ground. He has vast experience in three dimensional finite element analysis of tunnels, basement excavations and piles in limestone. His qualifications are: BE, MSc.
- En. Mahat has (53) has a BSc in geology from the University of Malaya. He has been involved in the materials testing and pile construction in major highways, geological mapping of slopes and pile foundations for a major elevated highway in KL.
- Ir. Lum Peng Fatt (external structural engineer) aged 60 is our structural adviser. He is a graduate in civil engineering from University Malaya and has vast experience in analysis, design and construction of buildings up to 34 storeys. His qualifications are BCE, MIEM and P.Eng.



3. LIST OF SOME MAJOR PROJECTS IN MALAYSIA

3.1 HIGHWAYS AND ROADS

<p>North – South Highway. Machap to Kota Tinggi Design Optimization and construction</p> <p>with Pakatan Runding Yusof for PLUS</p>	<p>This highway traverses through about 20 km of peat ground. Excavation with dewatering of the peat and replacement with compacted residual soil fill.</p> <p>Other geotechnical components of the works include pile embankments and surcharge.</p>
<p>Malaysian Singapore Second Crossing Expressway</p> <p>With Pakatan Runding Yusof</p>	<p>The main geotechnical problem is associated with the forming of high embankments using very wet GABBRO residual soils.</p>
<p>North – South Highway. Simpang Pulai to Ipoh</p> <p>For IREKA Engineering and Construction</p>	<p>Designing for the contractor alternative methods for reclaiming disused mining ponds and disused tin mining land.</p>
<p>Ring Road, PetraJaya, Kuching</p> <p>with Konsultant SHC</p>	<p>The main geotechnical works include the use of geotextile bamboo fascine mattress to enable fill over peat and surcharging the peat</p>
<p>Boulevard, Petrajaya, Kuching</p> <p>With MINSAR</p>	<p>The project involved excavation and replacement of peat, prefabricated vertical drains through the soft clay beneath the peat and surcharge.</p>
<p>KESAS Highway from Sungei Besi Inerchange to Kinrara Interchange</p> <p>With Hashim and NEH</p>	<p>Design and construction for soil treatment through disused tin mining land and tin mining ponds</p>
<p>Kuching – Kota Samarahan Expressway, Sarawak</p> <p>With Konsultant SHC</p>	<p>Surcharge embankments on soft clay</p>
<p>Tubau to Bakun Access Road with KTAS for JKR</p>	<p>100 km road through the jungles of Sarawak involving stability of high cut slopes in sedimentary formations.</p>
<p>North Kelang Valley By Pass Expressway</p> <p>For ShahPadu</p>	<p>Design review of the geotechnical treatment of soft clay using surcharge and prefabricated vertical drains.</p>



Access Road to Pelabuhan Tanjung Pelepas Johore With Pakatan Runding Yussoff	Design of surcharge with prefabricated vertical drains
Miri Bypass road With MINSARfor SAMLING	Fill over peat and surcharge peat and underlying soft clay.
Matang Highway, Kuching Sarawak With Perunfing TKY for ZECON	Hydraulic filling over peat and surcharge peat and soft clay.
Jelutong Expressway. Penang For IJM / Jurutama	Surcharge domestic waste. Preload soft clay with vertical drains. Stone columns. Pile embankments
Package 4, 4A and 4B of JKR highway from Simpang Pulai – Lojing – Gua Musang For TRC	Design and construct project. Mountain road. Includes slope stabilization with soil nails, high retaining structures, high cut slopes and bridge foundations.
Road from Oya – Mukah-Balingian. Matadeng to Balingian with MINSAR	Design and construct project. Road over deep deposits of peat and soft clay. Filling and surcharge of peat and soft clay
Samarahan Expressway With MINSAR	Treatment of embankments on soft clay by surcharging
Tubau – Bintulu Road With Konsultant SHC	Design and construct project . Includes the use of light weight EPS to form high embankments on soft clay.
Widening of road from Sibulau to Julau With Konsortium Malaysia	Construction of high embankments on soft ground
Sibulau – Bawang Assam – Seredeng – Mukah Road. Package I with MINSAR	Treatment of road on peat and soft clay by surcharging.



Sibu – Bawang Assam – Seredeng – Mukah Road. Package 1 with Jurutera ARTECON	Treatment of road on peat and soft clay by surcharging.
DUKE HIGHWAY. Package 3 With Maunsell International	Stone columns and vertical drains for disused tin mining land. Soil nails for cut slopes Bored piles, driven piles and hand-dug caissons.
DUKE HIGHWAY. Karak Link With HSSI	Stone columns, vertical drains for disused tin mining land. Bored piles and driven piles.
EAST COAST HIGHWAY With HSSI	Stage construction of high embankments in form clays
EXPERIMENTAL FLOATING ROAD For Sibu Municipal Council	Use of light weight EPS to form a floating road over 30 m peat in Sibu.
WIDENING OF THE NORTH SOUTH EXPRESSWAY BETWEEN IPOH SOUTH AND JELAPANG With HSSI	Surcharge, vertical drains and stone columns as treatment of disused tin mining land
SOUTH KELANG VALLEY EXPRESSWAY for Muhibbah With Perunding ZKR and ISOTECH	Surcharge, vertical drains, stone columns, geotextile reinforcements, stone columns, etc
DUKE 2 ELEVATED HIGHWAY With MMSB	Bored piles, jack-in piles, driven piles, stone columns, EPS lightweight fill, retaining structures
NANGA MERIT, SARAWAK With Konsortium Malaysia	Mountain road. Slope stabilization with soil nails and rock bolts



3.2 RAILWAYS

ESSO REFINERY RAIL TERMINUS, PORT DICKSON With KL Consult	Treatment of high embankment on soft clay with surcharge and vertical drains
KL – KELANG DOUBLE TRACK With KL – Consult	Widening of existing track from KL to Port Kelang. Includes use of timber mattress as track subgrade treatment, dynamic compaction of loose tin tailings and surcharge over soft clay
RAIL LINK FROM WEST PORT TO PULAU INDAH For TRC – Ho Hup	Design and construct project. Pile embankments, surcharge with and without prefabricated vertical drains
RAIL LINK FROM GURUN TO PETRONAS ABF PLANT	Stone columns and excavation and replacement of soft clay
LRT FROM DAMAI STATION TO GOMBAK STATION WITH Hussein and kh Chong	At grade section, cut and cover section and piers on piles in Hawthorden Schist. Use of bored piles enveloped with jet-grout for deep seated limestone areas
LRT KELANA JAYA TERMINUS With Pakatan Runding Yussof	Ground treatment and stabilization for track subgrade
DESIGN CHECK FOR THE DOUBLE TRACK from Tanjung Malim to Ipoh For DRB	Use of dynamic finite element analysis to simulate the loads due to high speed trains
CHORD LINE JOINING KL SALAK SOUTH SECTION TO KL-KELANG LINE For IRCON	Track subgrade treatment using timber mattress
KLTO JOHORE BARU DOUBLE TRACK STUDIES With KL consult	Identification of soil treatment



RAIL LINK TO TANJUNG PELELPAS With KL Consult	Design check and project management
TRACK REHABILITATION WORKS FOR SABAH RAIL WITH KL Consult	Track works in soft ground
DETAIL DESIGN AND CONSTRUCTION OF THE DOUBLE TRACK FRO SEREMBAN TO GEMAS With KL CONSULT	Soil treatment works to prevent settlement due to vibrations from high speed trains. Slope stability Retaining walls Soil nails Contiguous bored pile walls

3.3 COASTAL, RIVER STRUCTURES AND WATER STRUCTURES

BAKO CAUSEWAY, Sarawak River Regulation Scheme With KTAS	Dredging of soft clay with rock fill for river closure
SUNGEI SARAWAK CAUSEWAY With KTAS	Rock fill river closure
KUCHING BARRAGE, Sarawak River Regulation Scheme With KTAS	Deep excavation in soft clay with aquifer pumping, driven and drilled piles, retaining structures
STABILIZATION OF OUTER BREAKWATER TO ACCOMMODATE NEARBY DREDGING With Konsultant SHC	Use of stone columns under water
SARIKEIU WHARF SHEET PILE WALL With KTAS	Analysis of sheet piles
LPG JETTY, BINTULU PORT With Konsultant SHC	Pile foundations



BINTULU PORT WHARF EXTENSION WITH Konsultant SHC	Tied back sheet piles , pile foundations and foundations for container stacking
BESUT RIVER BARRAGE With Ranhill	Dedging soft clay and replacement with sand with vibro-compaction
BINTULU INNER HARBOUR With Perunding WAHBA	Design checks on breakwaters, dredging and revetment design
TRENGGANU RIVER BREAKWATERS AND REVTMENT With WAHBA	Dredging of soft clay and sand key installation. Material selection
TANJUNG MANIS CONTAINER PORT With KTAS	Tied back sheet piles, dredging and pile foundations
SIBU CONTAINER PORT EXTENSION With KTAS	Tied back sheet piles
WIDENING OF THE JOHOR BARU – SINGAPORE CAUSEWAY S ABUTMENT FOR PROPOSED BRIDGE With Hussein Kh Chong	Rock fill embankment on stone columns installed in the sea
RIVER BANK STABILIZATION AT KG MELAYU, TELUK INTAN WITH RANHILL	Rock revetment and sand fill
REVTMENT AT JELUTONG WATER FRONT, PENANG IJMP	Rock revetment on soft clay
COASTAL RECLAMATION AT JELUTONG, PENANG IJMP/ JURUTAMA	Hydraulic sand filling over soft clay
SEPANGAR BAY SUBMARINE NAVAL BASE with TRC	On shore and off shore structures



RECLAMATION AT DANGA BAY for PARCELS A2, F1, F2, E1, JOHOR ISKANDER WATER FRONT / DANGA BAY	Hydraulic sand fill into the sea and stabilization using stone columns
SAMALAJU PORT with KTAS and TRC	Analysis and Design of the wharf structure
MUARA TEBAS CUSTOMS JETTY with Jurutera Perunding Wahba	Jetty structure and foundation piles
RIVER DIVERSION AND TUNNEL THRU LIMESTONE HILL IN PERLIS With PRY	Channel design, retaining structures, bridge foundations and tunnel through limestone

3.4 BASEMENT AND DEEP EXCAVATIONS WITH EMBEDDED RETAINING STRUCTURES

Rectification to drawdown at Prangin Mall, Penang For Penas Corporation	Analysis and design
Aetna Training Centre in Sri Damansara for M/s Geopancar Sdn Bhd	Finite Element Analysis Caisson Foundation and Diaphragm Walls.
Parcels 1, 4 buildings at Jalan Tun Razak/Jalan Putra with M/s Ireka Engineering & Construction Sdn Bhd for M/s Swasta Holdings	Design of strutted diaphragm walls
Anchored diaphragm walls for Enterprise 4 Taman Teknologi for M/s Ireka Engineering & Construction Sdn Bhd.	Design of anchored diaphragm wall and strutted diaphragm wall
Top-down diaphragm wall-basement construction for	Finite element analysis



Soka Gakkai Building, Jalan Bukit Bintang with M/s Geopancar Sdn Bhd	
Anchored diaphragm wall with soil nails, Ministry of Finance (MOF, Lot 2G2) Building, Putrajaya with M/s Syed Mansur & Associates for M/s Putra Perdana Construction Berhad.	Design of the diaphragm wall and bracing system
Top-down diaphragm wall construction for Goldhill Development, KL for M/s Geopancar Sdn Bhd.	Finite element analysis
24 m diameter circular cantilever diaphragm walls for sewage treatment plant at Pulau Indah with M/s Geopancar Sdn Bhd	Finite Element analysis
Anchored diaphragm wall for Buildings on Lot 2G3 and 2G4, Putrajaya with M/s Geopancar Sdn Bhd	Finite Element Analysis
Diaphragm wall analysis for LRT Station at Jalan Sultan Ismail for M/s GTM-Usaha Sdn Bhd.	Finite element analysis
Anchored soldier pile wall for cut and cover tunnel at Putra Jaya for Hasrat Usaha.	Analysis and design
Strutted diaphragm wall in soft clay for the Bayan Baru Sewage Treatment Plant for M/s Ho Hup Construction	Analysis and design



with M/s Geopancar Sdn Bhd.	
Diaphragm wall with top – down construction for Eng Lian at Bangsar with M/s Geopancar Sdn Bhd.	Finite element analysis
Anchored and cantilever diaphragm wall for KLCC Hospital for with M/s Geopancar SdnBhd.	Finite element analysis
Cantilever contiguous bored piles for basement excavation for Lot N, Sentral with M/s Syed Mansur and Associates	Analysis and design
32 m diameter cantilever circular diaphragm wall in soft clay for deep sewage pumping station at Meru, North Kelang with M/s Geopancar Sdn Bhd	Finite element analysis
Cantilever contiguous bored pile with RE wall on top for the Express Rail Link With M/s Econpile Sdn. Bhd.	Finite element analysis
Cantilever contiguous bored pile wall at Parcel E4 and E5, Putra jaya with M/s Econpile Sdn Bhd	Finite element analysis
Cantilever contiguous bored pile for Smart School, Putra Jaya with M/s Econpile Sdn. Bhd.	Finite element analysis



Contiguous bored pile wall for extension of basement for Assunta Hospital with M/s Econpile Sdn, Bhd	Finite element analysis
Review of anchored diaphragm wall design for KLCC convention centre by Bauer (M) Sdn Bhd for M/s SSP Geotechnics Sdn Bhd	Finite element analysis
Anchored diaphragm wall and strutted sheet pile and soldier piles for Holiday Inn on the Park with M/s Syed Mansur Associates	Analysis and design
Investigation into the cause of failure of the anchored contiguous bored pile wall at IOI, Puchong for M/s Azman Davidson	Finite element analysis and review of all performance data
Strutted soldier pile and sheet pile wall for the excavation of the sewage treatment plant at Puchong for M/s Jurutama Sdn Bhd	Analysis and design
Box sheet piles installed in water for dewatering downstream and removal of the LK2 temporary dam at Putra Jaya With Loh and Loh Construction Sdn Bhd	Finite element Analysis
Sheet pile coffer dam for Maran Bridge pier and pile cap construction for Ikhmas Jaya Sdn. Bhd	Finite element analysis



Strutted sheet pile with toe pins for the sewage treatment plant in soft clay, Putra Jaya for Ikhmas Jaya Sdn. Bhd.	Analysis and design
Diaphragm wall with top – down construction at Persiaran KLCC condominium, Selangor Dredging with M/s Geopancar Sdn Bhd.	Finite element analysis
Cantilever diaphragm wall at Jalan Madge with M/s Geopancar Sdn Bhd.	Finite element analysis
Cantilever diaphragm wall at Persiaran Hampshire for Beneton Properties with M/s Geopancar Sdn Bhd.	Finite element analysis
Anchored diaphragm wall and top-down diaphragm wall construction for the Mid valley Phase 2. The Gardens for M/s Geopancar– Bauer JV.	Analysis and design
Diaphragm wall with top – down construction and with wall on rock above lowest excavation at Parkwealth, Jalan Tun Razak.	Finite element analysis and geological mapping of the rock
Anchored and cantilever diaphragm wall at Parcel 2C2, Putrajaya for M/s Econpile – Geopancar Sdn Bhd.	Finite element analysis
Cantilever contiguous bored pile and anchored sheet pile at Izen – K1 for M/s Ireka Construction Sdn Bhd.	Analysis and design



<p>Cantilever, strutted and anchored contiguous bored pile wall and secant pile wall for deep excavation at limestone – Kenny Hill contact zone. Commerce Asset Holding Berhad</p> <p>with IJM Construction Sdn Bhd.</p>	<p>Analysis and design</p>
<p>3 basement excavation using anchored sheet piles , Phase 12 BTC and 12CTC at Taman Melawati</p> <p>With A Sani and Associates</p>	<p>Analysis and design</p>
<p>Basement Excavation for Penang High Court and Annexe using strutted jack – in sheet piles (also seepage cut-off)</p> <p>With A Sani and Associates</p>	<p>Analysis and design</p>
<p>Anchored and top down diaphragm wall for the KL Pavilion Basement at Jalan Raja Chulan and Jalan Bukit Bintang for KL Pavilion</p> <p>with TY Lin International</p>	<p>Analysis and design</p>
<p>Top down and anchored diaphragm wall for the Troika Project, Jalan Binjai</p> <p>with M/s Econpile – Geopancar</p>	<p>Finite element analysis</p>
<p>Anchored and cantilever contiguous bored pile wall at Persiaran Hampshire for M/s Zelan Construction</p> <p>with Hussein and kh Chong</p>	<p>Analysis and design</p>
<p>Anchored sheet pile, and cantilever contiguous bored pile wall for the PJ8 project</p>	<p>Analysis and design</p>



for IJM Properties.	
Cantilever contiguous bored pile walls, anchored diaphragm wall with soil nails at One Jalan Menerung for Bandar Raya Development with T Y Lin	Analysis and design
Top – down excavation with diaphragm wall for UAC building at Mutiara Damansara with Geopancar Sdn Bhd	Finite element analysis
Top – down diaphragm wall construction ,Water Front project, Jalan Pinang with Geopancar Sdn Bhd	Finite element analysis
Cantilever contiguous bored pile wall for Tiffany condominiums for Ireka Land Berhad With TY Lin	Analysis and design
Strutted diaphragm wall with buttresses for the basement excavation for the OVAL, Jalan Kudalari, KL for M/s With Geopancar Sdn Bhd.	Finite element analysis
Strutted contiguous bored pile wall, cantilever contiguous bored pile wall and anchored diaphragm wall for the Bangsar Business Centre with M/s Econpile and Geopancar Sdn Bhd.	Analysis and design
Strutted excavation for the cut and cover underpass construction at Sunway shopping centre	Finite element analysis



With M/s Geopancar sdn Bhd	
Anchored and cantilever contiguous bored pile wall at Hampshire Residences for Tan and Tan Development	Analysis and design
With Hussein and kh Chong	
Up – down construction with diaphragm wall for One MontKiara for Ireka Land Berhad	Analysis and design and overseeing construction
with IECSB and Geopancar Sdn Bhd	
Cantilever contiguous bored pile wall at Monte Bayu, Jalan Kuari, Cheras for IJMP	Analysis and design
with Perunding HNC.	
Strutted excavation with diaphragm walls for GLOMAC Al Batha for Glomac	Analysis, design and overseeing construction
With T Y Lin	
Anchored and contiguous bored pile walls at Setia walk for S P Setia	Analysis, design and overseeing construction
With K L Consult	
Top down construction at 12 Kia Peng for Cathay Organization	Analysis, design and overseeing construction
With T Y LIN	
Top down construction at Kor Joo Saik development, Jalan Binjai	Analysis, design and overseeing construction
With GEOPANCAR	
Basement reconstruction with cantilever diaphragm walls at Jalan Ampang for DNP	Analysis, design and overseeing construction
With Econpile	



Deep excavation next to Holy Rosary Church Brickfields For ArchBishop of Kuala Lumpur	Strutted contiguous bored pile with jet grout block to mitigate risk to 100 year old church
Deep excavation for KL Ecocity With IHKMAS JAYA	Strutted contiguous bored piles. Soil cement mixing and bored piles
Condominium development at Medang Seria, Bukit Bandaraya, KL for Bandaraya Development With TY Lin	Contiguous bored pile walls with soil nails and bored piles
Condominium development at Jalan Stonor for IGB with HNC	Diaphragm wall with top-down construction and foundations piles
Lot W Hotel. Jalan Ampang with T Y Lin	Diaphragm wall with top-down construction and foundation piles
Deep excavation for extended Pavilion along jalan Bukit Bintang with Econpile	Contiguous bored pile wall wall with top- down construction in limestone
Deep excavation with diaphragm walls and top-down construction and bored pile foundations for TA3 and TA4, Jalan P. Ramlee with TY Lin	Diaphragm wall with top – down construction and bored pile foundations
Ecocheras development at Jalan Cheras for Ekovest Berhad With HNC	Soil nails, ground anchors, contiguous bored piles, pile and raft foundations, rock fiddure grouting and drain basement
Tropicana city for Tropicana Berhad with TY Lin	Anchored contiguous bored piles top down construction, bored piles and raft



Service apartment at Jalan Kia Peng for Cathay Organization	Top - down diaphragm wall construction and bored piles
12 Kia Peng Service apartment for Ireka Land	Top-down construction with diaphragm walls and barretes
Development at Jalan Conlay for Econpile	Top down construction with contiguous bored pile in limestone
Menara Kuan Choo, Jalan Raja Chulan (next to Pavilion Tower) for Malton	Top-down construction with diaphragm wall and raft foundation

3.5 BUILDING FOUNDATIONS

CEMENT SILOS FOR TASEK CEMENT AT SG BULOH With KL Consult	Design of bored piles
BDA HQ at Kidurng, Bintulu With MINSAR	Shallow foundations
AMCORP BUILDING , PETALING JAYA With AKC Consultants	Shallow and deep foundations in limestone
PJ DEVELOPMENT BUILDING AT JALAN RAJA CHULAN With MINSAR	Bored piles
10 storey apartment blocks, Taman Seri Manja, off Old Kelang Road With REKA Perunding	Driven piles in limestone
Westin Hotel, Jalan Bukit Bintang	Hand dug caissons and micropiles in limestone



With HASHIM AND NEH	
28 storey condominium at Taman Seputeh	Bored piles
with Hussein and kh Chong	
Service apartments and Commercial Development at Jalan Binjai for PNB	Bored piles
With Hashim and NEH	
Menara Maybank at Jaan Bangsar / Jalan Maarof	Raft foundation
With Hashim and NEH	
11 storey building on fill at Relau, Penang	Raft foundation
For IJMP	
San Yang Tower, SIBU	Large diameter spun piles driven into sand
With E C Sepakat	
Enterprise 4 – Taman Teknologi	Raft and piled raft
With IREKA Construction	
Ministry of Finance Building, PutraJaya	Footings and bored piles
Putra jaya Convention Centre	Footings and bored piles
With IJMC	
Putra Jaya 4G3 and 4G4	Raft, driven piles and bored piles
With IREKA Construction	
Putra jaya Mosque, Dataran Putrajaya and Brdige	Driven piles and bored piles
With Hussein and kh Chong	
Sarawak State Library	Bored piles
With KTAS	
Putra jaya 4G1 and 4G2 for Putra Perdana	Bored piles
With Syed Mansur and	



associates	
Palace of Justice, Putra Jaya With KJM	Footings and bored piles
Yayasan Tun Razak at jalan Bukit Bintang With KTAS	Footings and micropiles
Dewan Undangan Negeri, Kuching, Sarawak With KTAS	Bored piles
36 Storey condominiums , Sentral,Jalan Travers With Pintaras Geotechnics	Bored Piles
Lot N,Sentral With Syed Mansur associates	Raft foundation
PJ 8 with 30 storey service apartment and 10 storey office blocks For IJMP	Bored piles
Apartment blocks at Ampang For Suditasia With Perunding TYL	Bored piles
Hotel development, Kuching With MINSAR	Bored piles
Office Block at No. 24, Jalan Tun Perak for WTW Bovis With TY Lin	Bored piles
Malaysian Security Printing Plant, Bukit Tagar With TY Lin	Driven piles through deep fills
Apartment block at Monte Bayu, Jalan Kuari, Cheras for IJMP With HNC	Footings on rock and bored piles



CIQ Johore for Gerbang Perdana With Hussein kh Chong	Bored piles and retaining structures
KL Pavilion Project, Bukit Bintang With TY Lin	Drained basement, raft and bored piles
Twin tower apartment for Zelan Construction at Persiaran Hampshire With Hussein and kh Chong	Bored piles
K1 Development, Mont Kiara For IREKA Land With IECSB	Hand dug caissons and bored piles
K2 Development, Mont Kiara for IREKA Land With IECSB	Barretes and bored piles
K5 Development, Mont Kiara for IREKA Land With IECSB	Bored piles
Tiffany Development, Mont Kiara for IREKA land	Bored piles
Bungalows in Sungei Long on slopes and construction and domestic waste For Green Soutions	Surcharge construction and domestic waste and construct raft foundations for 3 storey bungalows
Court yard homes for Regal Mont , Mont Kiara With TY Lin	Bungalows on footings on 20 m thick fill
Condominiums at Gombak For Yat Seng development	Raft foundations
Commerce Asset HQ at Jalan Raja Laut With IJMC	Footings, rafts and bored piles



One Menerung, Bandaraya for Bandaraya Development With TY Lin	Bored piles
One Mont Kiara With IECSB	Footings, Bored piles and barrettes
Seta Walk, SP Setia With KL Consult	Bored piles
12 Kia Peng, Cathay Organization With T Y Lin	Bored piles
MK 11, Sunrise With T Y Lin	Bored piles and jack in piles
Lot A Sentral With MRCB , T Y Lin	Pile raft
Paradigm, Kelana Jaya With IKHMAS JAYA	Bored piles
Lot G Sentral With T Y Lin	Bored piles

3.6 FOUNDATIONS FOR SOME LARGE BRIDGES

Sayong Bridge, Kuala Kangsar across the Sungei Perak With Perunding KJP	Bored pile foundations
Bridge over the Kuching Barrage With WAHBA	Driven pre-stressed spun piles
Pulau INDAH railway bridge for TRC – HO HUP	Driven pre-stressed spun piles
Baram River Bridge, MIRI, Sarawak	Driven steel pipe piles



With KTAS	
Durin Crossing Bridge across Rajang River, Sibul, Sarawak	Bored piles
with KTAS	
Rajang River Bridge, Sibul, Sarawak	Bored piles constructed with reverse circulation
With KTAS	
Balingian Bridge, Sarawak	Driven prestressed spun piles
With MINSAR	
Widening of the Penang Bridge	Bored piles steel casings and constructed with reverse circulation next to existing bridge piles
With HSSI	

3.7 OTHER MAJOR INFRA STRUCTURE WORKS

RECLAMATION OF SLIME POND FOR PALACE OF GOLDEN HORSES, SG BESI	Development of geotextile bamboo fascine mattress
LK3 ROCK FILL CLAY CORE DAM PUTRAJAYA	Design and construction project
with Loh & Loh Construction	
PUTRA JAYA CORE ISLAND DEVELOPMENT AND EARTHWORKS	Design and construct project. High embankments on very soft clay stabilized with stone columns
With Loh & Loh Construction	
KOTA KINABALU WATER SUPPLY PRIVATIZATION PROJECT FOR JOHN HOLLAND	Reservoirs on slopes and pipelines
With KTAS	
SEPANGAR BAY NAVAL BASE. PHASE 1	Slope stability and stabilization and reclamation works
With Muhibbah Engineering	
SEPANGAR BAY NAVAL BASE PHASE 2	Pile foundations for jetties, bridges and ship lifts



WITH TRC	
BRUNEI AIRPORT EXTENSION	Shallow and deep foundations and slope treatment
WITH TRC	

3.8 ENVIRONMENTAL – LANDFILL PROJECTS

MASTER PLAN KUALITI ALAM FOR MALAYSIA INTEGRATED SCHEDULED WASTE TREATMENT FACILITY LANDFILL AT BUKIT NANAS, NEGERI SEMBILAN, MALAYSIA (IN ASSOCIATION WITH GOLDERS ASSOCIATES PTY LTD, AUSTRALIA)	Master Plan development and submissions to DOE for approvals
KUALITI ALAM. DETAILED DESIGN OF CELLS 1 TO 6	Detail design and QAQC over a period of 13 years
KUALITI ALAM. PUTRESCIBLE WASTE CELL	Detail design and QAQC
KUALITI ALAM. PROGRESSIVE CAPPING OF CELLS AS WASTE IS RAISED	Detail design and QAQC
SIBU MUNICIPAL LANDFILL. MASTER PLAN AND DETAIL DESIGN OF THREE CELLS FOR SIBU CITY COUNCIL	Design and QAQC of liner
QAQC OF PUCHONG MUNICIPAL WASTE LANDFILL CONSTRUCTION FOR WORLD WIDE SITA ENVIRONMENTAL MANAGEMENT	QAQC works and rectification works to liners
ASIAN RARE EARTH STORAGE FACILITIES	Peer review



3.9 SLOPE STABILIZATION WORKS

STABILIZATION OF SLOPE MOVEMENTS USING ANCHORED HAND DUG CAISSON AT GENTING HIGHLANDS WITH BACHY SOLETANCHE	Design and construct anchored hand dug caissons
STABILIZATION OF HIGH ROCK FILL AT PADANG RENGAS FOR M/S PERAK HANJUNG.	Design of grouting sliding plane
STABILIZATION OF FAILED REINFORCED SOIL WALL IN KAJANG	Analysis and design of retaining structures
STABILIZATION OF FAILED SLOPES AT RAUB DISTRICT HOSPITAL	Analysis and design rock fills
STABILIZATION OF CUT SLOPE FAILURES AT PETRONAS UNIVERSITY, TRONOH FOR KLCC	Analysis and Design of retaining structures and soil reinforcements
STABILIZATION OF FILL SLOPE AND RETAINING WALL FAILURE AT PRIME MINISTER'S OFFICE, PUTRA JAYA FOR KLCC	Analysis and Design of slope reconstruction
STABILIZATION OF ROCK SLOPES AT PAYA TERUPONG, PENANG	Analysis and Design of soil nails and rock bolts
22 m HIGH RE WALL ON HAND DUG CAISSONS AT PAYA TERUPONG, PENANG	Analysis and design of wall and caisson foundations
STABILIZATION OF FAILED FILL SLOPES WITH REINFORCED SOIL	Analysis and design of retaining walls and slope



WALL AT GUA MUSANG WITH PATI – HO HUP	reconstruction
STABILIZATION OF CUT SLOPES AT SEPANGAR BAY NAVAL BASE	Geological investigations and design of revised slope configurations
STABILIZATION OF UNRAVELLING SLOPE AT PULAU LANGKAWI	Analysis and design of rock bolts and gunite
SLOPE STABILIZATION FOR 4 SEASONS, PENANG For Belleview	Hand dug caissons, soil nails, rock bolts, retaining structures,
TAMAN MELAWATI DEVELOPMENT – SLOPE STABILIZATON For IGB	Soil nails, rock bolts, concrete buttress walls
SLOPE STABILIZATION FOR PETRONAS GAS PIPELINE at LIMBANG, SARAWAK With TRC for Petronas Carigali	Permanent sheet piles, soil nails, rock bolts, gabions

3.10 UNDERPINNING OF BUILDINGS

UNDERPINNING RESIDENTIAL BUILDING UNDERGOING SETTLEMENT AT DAMANSARA HEIGHTS KULA LUMPUR	Design of micropiles
UNDERPINNING APARTMENTS AFFECTED BY SLOPE MOVEMENTS USING MICROPILES	Design of micropiles



3.11 TANK FARMS

PSR 2 TANK FARM AND OTHER FACILITIES FOR PETRONAS, MALACCA WITH WMK	Analysis and design of different foundations for more than 30 tanks
OIL PALM TANKS AT BINTULU PORT WITH PERUNDING WAHBA	Analysis and design of pile foundations for more than 10 storage tanks

3.12 AIRPORTS

KUCHING AIRPORT RUNWAY AND TAXIWAY EXTENSION With MINSAR	Advise on fill materials
JOHORE BARU AIRPORT TERMINAL BUILDING EXTENSION WITH KTAS	Design of building foundations
BALINGIAN AIRPORT With MINSAR	Replacement of peat and surcharge soft clays with vertical drains

3.13 EXPERT WITNESS – ARBOTRATION AND COURT HEARINGS

Dr Toh Cheng Teik has been an expert witness at several arbitrations and court hearings.

3.14 MISCELLANEOUS PROFESSIONAL ACTIVITIES

PUBLICATIONS IN REGIONAL AND INTERNATIONAL CONFERENCES AND JOURNALS	More than 40 papers
MALAYSIAN HIGHWAY TRIAL EMBANKMENTS ON SOFT CLAYS	Author of the final report



LECTURES TO PROFESSIONAL CONTIULA EDUCATION	Topics include: <ul style="list-style-type: none"> • Bored piles • Soft clay • Peat • Cut slope stability • Residual soil fill • Retaining structures • General foundations • • Reclamation of disused tin mining land • Deep excavations
CIDB COMMITTEE FOR DRAFTING GUIDELINES FOR CONSTRUCTION ON PEAT	Dr C T Toh as Deputy Chairman Ir Chee Sai Kim as Committee member

4.0 PROJECTS OUTSIDE MALAYSIA

8 M HIGH APPROACH EMBANKMENT ON PEAT 200 KM NORTH OF DHAKA, BANGLADESH WITH DIRD PTE LTD	Stage construction with gain in strength of up to 8 m high geotextile reinforced embankment
REHABILITATION OF RAILWAY TRACK, YANGORN, MYANMAR WITH KL CONSULT	Review requirements for track sub-grade preparation
PRESSURE GROUTING TO REPAIR DEFECTIVE BORED PILES IN COLOMBO, SRI LANKA FOR NAWALOKA PTE LTD	Grouting works
JETTY FOR YEMEN GAS IN YEMEN FOR MUHIBBAH ENGINEERING	Driven pipe piles and bored piles by reverse circulation – resident geologist at site
REVIEW OF TREATMENT WORKS FOR SIHANOUKVILLE AIRPORT RUNWAY EXTENSION FOR MUHIBBAH ENGINEERING	



DOHA INTERNATIONAL AIRPORT CATERING CENTRE FOR MUHIBBAH ENGINEERING	Bored piles in limestone
KOTA KINABALU AIRPORT WITH MINSAR	Advise on reclamation works and soil treatment works
BRUNEI AIRPORT EXTENSION FOR TRC	Slopes and foundations
EMBANKMENT FAILURE STUDY IN BRUNEI FOR CHINA HARBOUR 3	Embankment failure assessment