



MOHD ASBI  
ASSOCIATES  
SDN BHD

CORPORATE PROFILE

The background image shows a close-up of an architect's workspace. A person's hands are visible, one holding a pen and drawing on a set of architectural blueprints. The blueprints show detailed floor plans with rooms, corridors, and stairs. In the upper right corner, there is a small 3D architectural model of a building. A wooden ruler is visible in the bottom left corner. The overall scene is brightly lit, with a clean and professional aesthetic.

## CORPORATE BACKGROUND

MOHD ASBI ASSOCIATES SDN BHD WAS INCORPORATED IN  
APRIL 2002 TO PROVIDE CONSULTING AND MANAGEMENT  
SERVICES IN ALL FIELDS RELATED TO CIVIL, STRUCTURAL  
AND GEOTECHNICAL ENGINEERING WORKS

## - OUR MISSION - SATISFACTION OF OUR CLIENTS

We provide professional engineering consultancy and project management services in the field of geotechnical, structural, infrastructure and highway/ transportation engineering.

Our clients have come to depend upon our ability to perform specialized design analyses, engineering audit checks and value engineering solutions that could save up to 20% of the total project cost.



Our clients range from public, GLC's and private companies to Authorities and Statutory Bodies etc. in Malaysia and developing countries such as Indonesia, Philippines, Saudi Arabia and others. Our breath of experience has encouraged more clients to place trust in carrying out design, audit and to bring various value engineering solutions forward.





# FOREWORD

Founded in 2002, Mohd Asbi Associates Sdn Bhd was established to provide professional engineering consultancy and project management services to a full spectrum of public and private sector organizations.

We are now a growing team of senior managers, dedicated engineers, project managers and site based personnel with extensive experience in the industry, local knowledge and long-standing network of contractors and suppliers.

We apply diverse technology to chart new path into the future. This is done by combining our engineering, operational and technical expertise with leading edge technology and setting high standards. We deliver value-driven engineering solutions to meet all our clients' needs.







## MANAGING DIRECTOR

# Ir. Dr. Mohd Asbi Othman

B. Sc (Hons), PhD (Bristol), FIEM, P. Eng, MREAM

He has published more than 40 papers in journals and proceedings for local and international conferences.

In the course of his career, some of his notable appointments are:

1993 - A member of Search and Rescue Team (SAR), Cabinet Committee & MPAJ Board of inquiry during the Highland Towers Condominium collapse tragedy.

1995 - Appointed as the Lead Investigator by Resorts World Berhad to undertake investigation of Debris flow at slip road to Genting Highlands.

1997 - Appointed by the Board of Engineers (BEM) as the investigator in the investigation of the failure of Hill 10, North South Expressway (NSE) Gua Tempurung.

2003 - Investigator & Remedial Works Consultant for the Bukit Lanjan Rockfall at KM21.8 North Klang Valley Expressway (NKVE)

2008 - Appointed by JKR as investigator of Bukit Antarabangsa Landslide.

After graduation from the University of Southampton in Civil Engineering in 1983, he joined Public Works department, Malaysia (JKR) where he worked as a Geotechnical Engineer until 1987.

He pursued his studies at the University of Bristol and was awarded PhD degree in 1989. He continued his service with JKR as a Research Engineer for another 7 years before leaving the government service in 1996 and became a partner in an engineering consultant firm, Perunding ZNA after obtaining his P.Eng. from the Board of Engineers Malaysia in 1996.

In May 2002, he left Perunding ZNA to establish Mohd Asbi Associates Sdn Bhd. He obtained his Fellowship from the Institution of Engineers Malaysia in 2013. He is currently the Managing Director of Mohd Asbi Associates Sdn Bhd.



DIRECTOR

## Ir. Narain Singh

B.E. (Hons) Civil Eng. MIEM, P. Eng.



Born in 1954, Ir Narain Singh is a Director and one of the founding partners of Mohd Asbi Associates Sdn Bhd. He holds a Bachelor of Engineering (Civil) degree from University of Roorkee, India and is a member of the Institute of Engineers Malaysia (IEM) and Board of Engineers Malaysia (BEM).

He started his career as a Design Engineer with the Water Supply Department, JKR Malaysia from 1979 to 1981. In 1982, he joined Malaysian Industrial Estates Berhad (MIEL), holding various positions in the technical design, project planning, development of various industrial estates and residential projects in the country.

He left MIEL as an Assistant Operations Manager in 1992 to set-up a construction company called Wangsa Kerjaya Sdn. Bhd. Subsequently, he was involved in the setting up of an engineering consultation firm, Perunding ZNA, in 1993 together with other partners.

In May 2002, he, together with Ir. Dr. Mohd Asbi Othman, left Perunding ZNA to establish Mohd Asbi Associates Sdn Bhd.

He is currently a director of Mohd Asbi Associates Sdn Bhd.





DIRECTOR

## Ir. Dr. Low Tian Huat

B. Eng. (Hons) Civil , M. Eng. Sc, PhD  
(Malaya) P. Eng, MIEM, MREAM,  
MREAAA



Ir. Dr. Low Tian Huat, who was born on September 12, 1969 is also a Director and Manager of the Geotechnical Department of Mohd Asbi Associates Sdn Bhd.

In 2011, he graduated from University of Malaya with a PhD in Geotechnical Engineering. He is a Professional Engineer (PEPC) with more than 20 years of working experience.

He started his career as a Research Engineer in University Malaya for a project along PLUS Highway. He was also a part time lecturer for Foundation Engineering course in University of Malaya (2002 - 2017). To date, he has published more than 50 papers in journals for both local and international conferences.

ASSOCIATE DIRECTOR  
**Ir. Ismail Mamat**

B. Sc. in Civil Engineering, MIEM,  
P.Eng.



Ir. Ismail Mamat is an Associates Director of Mohd Asbi Associates Sdn. Bhd, managing the Kuala Terengganu Branch.

Ir. Ismail Mamat was born in Kuala Terengganu on 7 July 1964. He graduated with Diploma in Civil Engineering from the University of Technology Malaysia in 1985 and Bachelor of Science in Civil Engineering from Middle East Technical University, Ankara, Turkey in 1988. He is a Professional Engineer (PEPC) with more than 28 years of working experience. .

He started his career as an Engineer with the Malaysian Industrial Estate Berhad (MIEL) and held various positions in the property development. He had extensive experience during his tenure with MIEL, handling technical design, project planning, tender, development and maintenance of various industrial, commercial and residential estates in the country and Indonesia.

In April 2008, he left MIEL and joined Mohd Asbi Associates Sdn. Bhd. He has successfully managed a number of projects for Mohd Asbi Associates Sdn. Bhd. in Terengganu and other states.



# OUR PROFESSIONAL SERVICES

WE PROVIDE A FULL RANGE OF PROFESSIONAL ENGINEERING CONSULTANCY AND SPECIALIST SERVICES IN THE FOLLOWING DISCIPLINES:



**GEOTECHNICAL ENGINEERING**



**STRUCTURAL ENGINEERING**



**HIGHWAY AND ROAD ENGINEERING**



**INFRASTRUCTURE ENGINEERING**



**RESEARCH-KNOWLEDGE BASED  
DEVELOPMENT**



# GEOTECHNICAL ENGINEERING

Our niche and specialisation lie in the field of geotechnical engineering. This involves design of heavy and complex foundations, raft foundations, earth structures, ground and soil improvement, and slope remedial works. Special skills are also available in the field of engineering geology providing support to this division in the design of rock slopes, tunnels, dams etc.



# FORENSIC ENGINEERING

We are known as a research team conducting of landmark landslides and slope failures investigation for various Government Agencies (Public Works Department and Malaysia Highway Authority) and Highway Concessionaires.

Notable appointments include;

Rock slope failure investigation and remedial solution at Bukit Lanjan of the New Klang Valley Expressway (NKVE) for PLUS Expressway Berhad (2003).

Lanslides investigation and remedial solution of Bukit Antarabangsa, Ulu Kelang, Selangor for the Government of Malaysia (2008).

Slope rehabilitation scheme at Seri Manjung Reservoir, Mukim Lumut, Perak for Lembaga Air Perak (2014).

Rock slope stabilization works at KM263.88 South Bound, North-South Expressway (2016).

Slope rehabilitation works at various locations for Syarikat Bekalan Air Selangor.

# AUDIT ENGINEERING

Some of our notable accomplishments are:

Checking the tunnel construction and proposed design for the Double Track Railway Line (Berapit Tunnel) that passes through the North South Expressway in Malaysia for the Highway Concessionaire (PLUS) of Malaysia.

Checking the design and construction of the Coal Terminal Port in Jakarta, Indonesia for MTD Corporation.

Checking the rock stabilisation and support system at Jabal Omar Township, Makkah, Kingdom of Saudi Arabia.

Checking the design of the largest Police Headquarters (40 storey structure), Bukit Aman, Kuala Lumpur.

Independent geotechnical audit for Federal Government Administrative Centre at Ayer Keroh, Malacca.

Independent checker for Geotechnical works for Kompleks Kerja Raya 2, Jalan Sultan Salahuddin, Kuala Lumpur.

Landslide investigation and expert opinion on the removal of debris and rectification works for anchor slope failure Bukit Setiawangsa, Kuala Lumpur.

# FOUNDATION DESIGN

Some of the works include;

Foundation design of LRT viaducts for Syarikat Prasarana Negara Berhad.

Design of foundation and retaining wall system for basement and piling system at Paradigm Mall, Kelana Jaya for Jelas Puri Sdn Bhd.

Pile raft foundation design and the substructure system for MAS Building, Jalan Sultan Ismail, Kuala Lumpur.

Design of foundation and retaining wall system for basement and piling system at Lot G, KL Sentral Building for MRCB.

Design of foundation and retaining wall system for basement and piling system for ISOLA Apartment, Subang Jaya for Sime Darby Properties.







# STRUCTURAL **ENGINEERING**

Mohd Asbi Associates Sdn Bhd has extensive experience and resources providing comprehensive and value structural engineering services for public and private sectors. This includes new buildings from low to high rise, institutional and commercial buildings and complex structures such as stadiums and conference halls. We also undertake engineering audit checks and value engineering works for various structures.







## VALUE ENGINEERING

We undertake value engineering for various structures resulting in substantial savings to our clients. We take pride in our work which results in up to 20% saving. Some of our notable clients are Sime Darby Property Sdn Bhd, UEM Builders Bhd, Mentari Housing Sdn Bhd and Public Works Department of Malaysia.

Our teams adopt rigorous design using the finite elements and 3D analyzes to change the foundation concept and structure framing to justify our final optimized solution.

## DESIGN ENGINEERING

Our highly qualified motivated structural engineers remain hands on throughout the life of each project from start to completion. Our unique strength lies in our ability to pursue and resolve complex structural engineering problems and achieve simple, innovative and economical solutions.

We blend practical commercial awareness and simplicity in the design and construction to our client's requirements for timely delivery of the project.









# HIGHWAY & ROAD ENGINEERING

The projects that are routinely performed by Mohd Asbi Associates Sdn Bhd in this discipline usually require initial planning of the roads and bridges up to the final designs and implementation. An elaboration of our services are:

The Geometrical Design of roads, highways and bridges.

Road Safety Audits and Accident Black Spot Investigation.

Traffic Impact Assessment and Traffic Management.





# INFRASTRUCTURE ENGINEERING



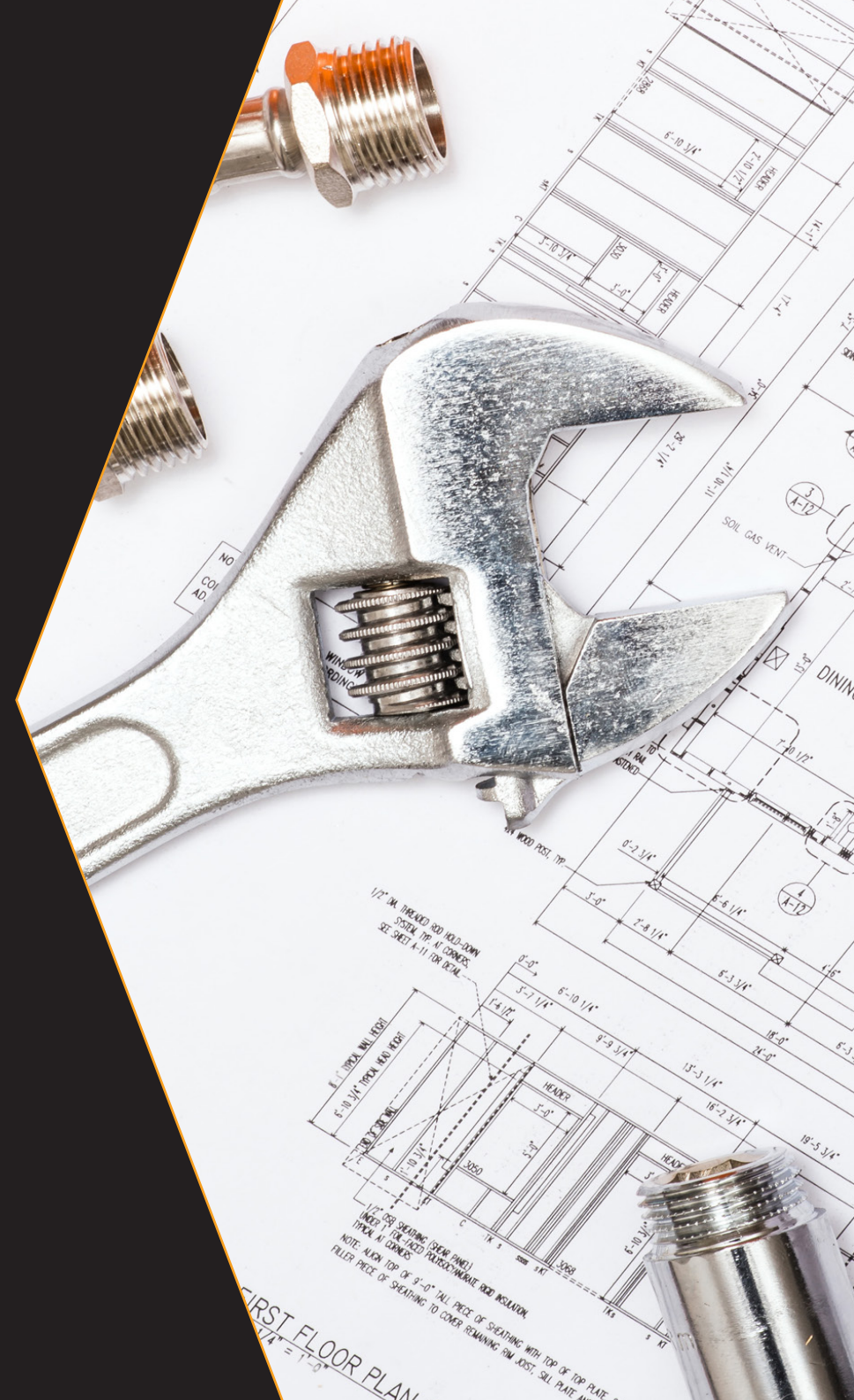
We provide our masterplanning services in assisting the transformation of a single development planning to a township.

We assist in the Water Supply Scheme i.e. In the planning, design and construction supervision of Water Treatment Plant and Water Pipe Reticulation, drainage system and hydraulics study, earthworks as well as the Sewerage Treatment Plant and Sewerage Reticulation.

We have the experience in providing a broad spectrum of water resources and water supply services to a myriad of governmental (local, state and federal) and private industry entities.

Some of our current project undertakings are full infrastructure design and construction of Desa Melawati (Selangor), Bandar Universiti Pagoh (Johor) and Bandar Ainsdale (Negeri Sembilan) Developments for Sime Darby Property Berhad, KL East (Selangor) for Tetuan Melawati Development Sdn Bhd and Subang Mewah Development (Selangor) for Tetuan Dergahayu Sdn Bhd.

Our design works are often used in assisting clients to obtain the authority's approval. The process goes from implementation of the system right up to the complete handover of the project to the client. We assist in obtaining local and municipal approval for Water Resources Evaluation, Water Supply Needs Assessment and Water Supply System Design and Evaluation.





# RESEARCH-KNOWLEDGE BASED DEVELOPMENT

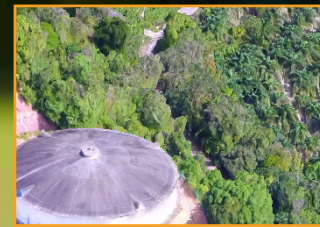
Research gives us an upper hand as we see ourselves as a knowledge based center when it comes to Slope Risk and Hazard Assessment in Malaysia for both linear assessment and area based assessments.

We have carried out Slope Risk and Hazard Assessment at Tamparuli-Sandakan Road (TSR), Jalan Gunung Raya in Pulau Langkawi, Hulu Kelang area in Selangor, Genting Highlands access roads, Pulau Pinang and Bukit Kanada (Miri) area in Sarawak, LATAR highway, Sabah Sarawak Gas Pipeline (SSGP) and Gombak-Selayang-Rawang-Batang Kali and Cheras Selatan-Kajang-Bangi areas in Selangor.

Other appointments include Slope, Drainage and Culvert Condition Assessment along 148km Redline stretch of Pan Borneo Highway. LiDAR and UAV technologies were adopted in this study.







Some of the works involved in the slope hazard and risk assessment are:

Field Assessment, Geomorphological and Geological Mapping Works by field teams using our field proforma to collect non-spatial field data.

Adopting Light Detection and Ranging Survey (LiDAR) to establish the terrain modelling of the study area.

Capturing detailed features and photogrammetry analysis of slopes using Unmanned Aerial Vehicle (UAV).

Combining the non-spatial (field work) and spatial (LiDAR Survey) data with Geographic Information System (GIS) applications for the development of Slope Management Systems such as Slope Management and Risk Tracking (SMART), Genting Slope Management System (GSMS) and Real-Time Monitoring System for PLUS Expressway Berhad.

The completed Slope Management System is then handed to our clients to prioritize and manage their budget allocation for preventive works.



# COMPANY INFORMATION

## GOVERNMENT/AUTHORITIES

COMPANIES COMMISSION OF MALAYSIA : 630467-A  
BOARD OF ENGINEER : 1812-1000-BC-1213  
MINISTRY OF FINANCE : J60408477871865360  
ROYAL MALAYSIA CUSTOMS : B16-1808-31012590

## VENDOR REGISTRATION

PETRONAS : SE2010303, SE2020000, SG3010300,  
SG3040000  
SIME DARBY : SD05920  
MIDF : C & S, GE - 026  
PKNS : (215) PKNS/PER/UP/PRAKEL 2/2017  
TNB : 3049084 (330101)  
SPAN : QP 1472  
SYABAS : 16032



074



MS ISO/IEC 17021:2011

QS 02121999 CB 01

EMS 17122002 CB 02

OHS 06122005 CB 01

## CERTIFICATION



**SIRIM**

QUALITY MANAGEMENT SYSTEM  
ISO 9001 : 2015 CERT NO: QMS 02265



**SIRIM**

ENVIROMENTAL MANAGEMENT SYSTEM  
ISO 14001 : 2015 CERT NO: EMS 00542



**SIRIM**

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM  
OHSAS 18001 : 2007 CERT NO: OHS 00410  
MS1722 : 2011 CERT NO: OHS 00411



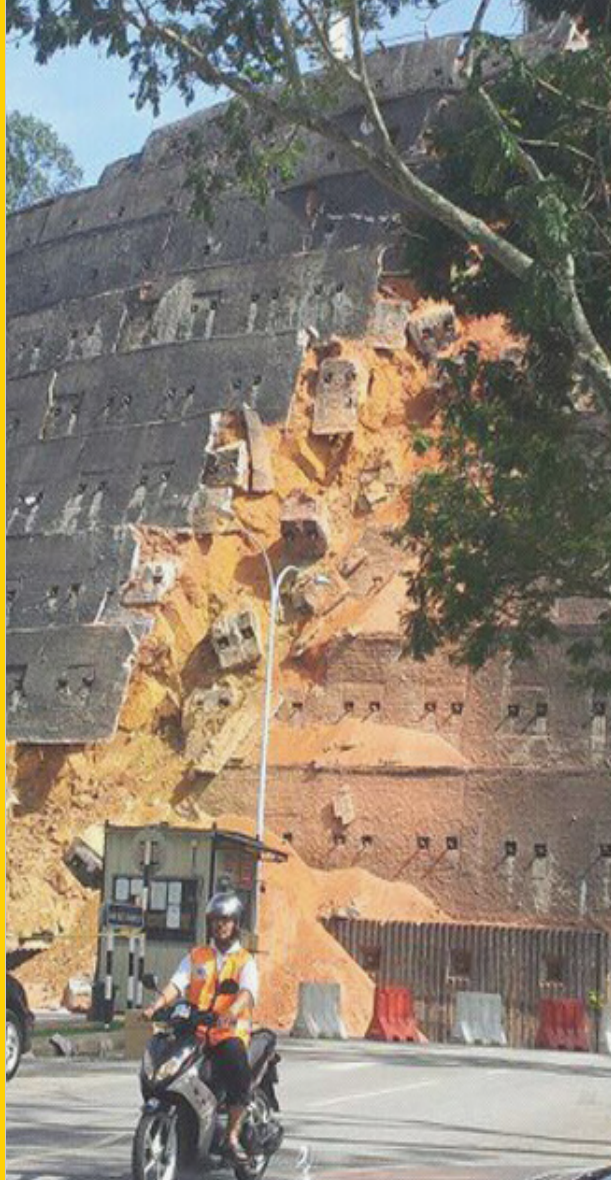
The image shows two men in hard hats and work clothes standing in a field, looking at a large set of blueprints. They are silhouetted against a bright, hazy sky where the sun is low. In the background, several high-voltage power line pylons and their associated cables stretch across the landscape. The overall scene suggests a power infrastructure project.

# PROJECT LIST

# Project List

## ON-GOING

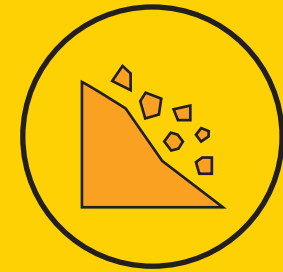
1. Slope, Drainage and Culverts Assessment for Pan Borneo Expressway - Redline
2. Ground Treatment Malaysia Chinese Kuantan Industrial Park
3. Geotechnical Services For Kerteh Regional Service for Petronas
4. Geotechnical Assessment Along Sabah Sarawak Gas Pipeline
5. Slope Rehabilitation Works at Jalan Semantan, Kuala Lumpur
6. Slope Stability Study and Slope Protection for Alam Impian, Alam Damai, Taman Pelangi Indah and Desa Mutiara II for I&P Group SB.



## GET IN TOUCH

Ir Dr Low Tian Huat - 016 322 9276  
Ir Ng Say Chong - 012 283 9669  
Ir Yong Woi Leong - 012 207 2881

Head Office : 03 7842 8200



# GEOTECHNICAL

[www.asbi-associates.com.my](http://www.asbi-associates.com.my)



# About.

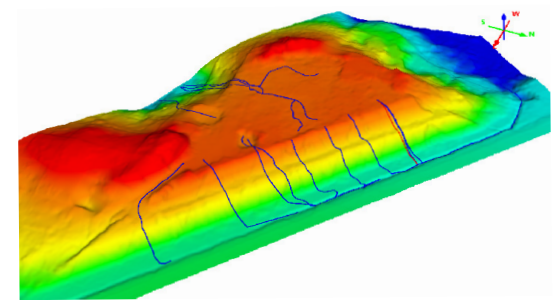
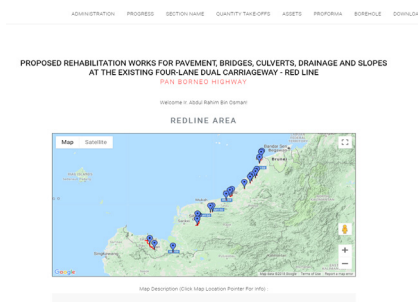
Mohd Asbi Associates Sdn Bhd (MAASB) has been appointed by Lebuhraya Borneo Utara Sdn Bhd (LBU) to carry out slope, drainage and culvert condition assessment and rehabilitation design at the existing four lane dual carriageway (Redline) and over taking lane (OTL) which is part of the proposed Pan Borneo Highway.

## OUR NOTABLE PROJECT

# Scopes.

- Strengthening works for each high hazard slope identified.
- Rehabilitation of the broken, cracked and blocked drainage (roadside drain and slope surface drainage systems).
- Rehabilitation of the broken, cracked and blocked culverts (including of inlet and outlet).
- Upgrading works of the existing earth drain to lined/ concrete drains (including sumps and other associated works).
- Handrailing works for selected slopes.

## Proposed Rehabilitation Works for Pavement, Bridges, Culverts, Drainage and Slopes at the existing Four-Lane Carriageway – Redline



### COMPREHENSIVE WEB PIMS

Due to enormous information (site measurement and evidence photographs) recorded during site mapping works, the web application named Web Based Project Information Management System (Web PIMS) has been developed by MAASB as tools for conducting systematic reviews, central archive and data extraction which can be shared among users online.

### ON-FOOT FIELD MAPPING WORKS

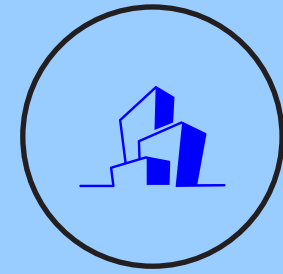
The assessment work requires MAASB to deploy experienced engineers and engineering geologists on site to carry out on-foot field mapping works. Unmanned aerial vehicle (UAV) was used where areas (drainage and culvert) or slopes tend to be limited by geographical obstacles and other terrestrial factors. No field mapping works are assigned to the forest or thick jungle areas. Spatial data such as orthophoto, digital surface model (DSM) and digital terrain model (DTM) were provided to us by LBU's specialist contractor to facilitate this assessment works.

### LIDAR BASED PRODUCTS

Due to unavailability of as-built drawings, asset and inventory records of the existing Redline stretch, orthophoto and DEM from LiDAR considered as essential element to form the base map for this assessment works. The site assessment information was used to plot or trace the slope polygons, culverts and drainage lines onto the base map in GIS application. True dimensional polygons and lines are then saved or converted into a shapefile (.shp) which is a popular geospatial vector data format for geographic information system (GIS) software.

# ON-GOING PROJECTS

1. Proposed Development of Commercial Complex Consisting Of Mall And Hotel In Kuala Terengganu Terengganu.
2. Cadangan Pembangunan Ibu Pejabat Dan Pusat Inovasi Cybersecurity Malaysia Secara Kerjasama Awam Swasta.
3. Cadangan Pembangunan 864 Unit Pangsapuri Mampu Milik Di Taman Sains Selangor, Sepang.
4. The Proposed Development Of Affordable Housing Which Include But Not Limited To The Common Facilities And Amenities, Related Infrastructure Works And Associated Works, On Plot R4-3 (800 Units) In Kwasa Damansara Township Development, Mukim Sungai Buloh, Daerah Petaling, Selangor Darul Ehsan.



# STRUCTURAL

## GET IN TOUCH

Ir Noor Azmil bin Hj Sakur - 012 3143027  
Ahmad Farhan Mohd Tahir - 013 371 1735  
Koh Shwu Yuan - 012 246 3064  
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# About.

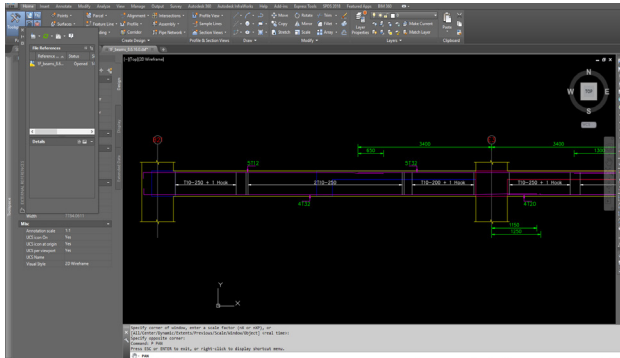
Mohd Asbi Associates Sdn Bhd (MAASB) has been appointed by Pelaburan Hartanah Berhad (PHB) to provide Engineering Consultancy Service for the civil and structural design for the proposed Commercial Complex consisting of Mall and Hotel in Kuala Terengganu.

OUR NOTABLE PROJECT

# Scopes.

- Schematic design and preliminary study.
- Design and submission for Kebenaran Merancang and Building Plan.
- Liaise with relevant authority and getting approval.
- Project tendering and cost evaluation.
- Provide supervision during construction stage.

## PROPOSED DEVELOPMENT OF COMMERCIAL COMPLEX CONSISTING OF MALL AND HOTEL IN KUALA TERENGGANU, TERENGGANU DARUL IMAN



### SCHEMATIC DESIGN PHASE

Preliminary studies and taking instructions of the architect and client to ascertain the requirements and constraints of the works.

Provide assistance to the Town Planner/Architect on the overall preliminary infrastructure requirements for the Town Planner/Architect to submit for planning approval.

### GETTING APPROVAL PHASE

Detailed design of civil and infrastructure, water supply, sewerage, roads and drainage, etc. for the proposed development and submission to the Authorities for approval.

Submission of engineering drawings to relevant Authorities for approval.

Detail design of all Civil and structural works as Working Drawings

### TENDER & CONSTRUCTION PHASE

Based upon the construction schedule as approved by the client, preparing and finalising the drawings, specifications and other particulars which are necessary for the preparation of bills of quantities by an independent quantity surveyor.

Provide nominal supervision during construction (exclude stationing of site representative).



# Head Office

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