minsar

JURUTERA MINSAR CONSULT SDN BHD

Civil & Structural Consulting Engineers

COMPANY PROFILE

STRUCTURAL DIVISION

Committed to Excellence Since 1985

ABOUT US

MINSAR'S STRUCTURAL DIVISION

Jurutera Minsar Consult Sdn Bhd (Minsar) is a Sarawak-based engineering consultant firm established in 1985, with majority Bumiputra (52%) share participation. Since its inception, Minsar has been actively growing its staff strength and experience in the engineering field and has now over 160 staff comprising more than 60 qualified engineers. The Company is registered with Kementerian Kewangan Malaysia (MOF) as well as Unit Pendaftaran Kontraktor and Juruperunding Negeri Sarawak (UPKJ), etc. as a Civil and Structural Engineering Consultant in Malaysia.

Minsar's Structural Division has been providing structural design services nationwide over 35 years in both the public and private sectors. Over these years of service, we have gained tremendous knowledge and experience, and have expanded by employing brilliant and enthusiastic engineers and sub-professionals to become one of the largest and most renowned engineering firms in Sarawak. Our engineers and technical assistants have also kept themselves abreast of the latest technologies such as BIM, design standards and know-hows in the structural engineering field. Our local strengths, world-class expertise and collaborative relationships have been recognized in the industry for delivering value to the satisfaction of our Clients' needs.

Member through ACEM

HEAD OFFICE BUILDING

STRUCTURAL DIVISION OFFICE

ADMINISTRATIVE OFFICE

UNIVERSITY COLLEGE OF TECHNOLOGY SARAWAK (UCTS), SIBU

OUR LEADERSHIP

Ir. Hii Yuh Tung
Principal

Email : hiiyt@minsar.com.my

Ir. Hii is the Founder and Managing Director of Minsar since its establishment in 1985. Through his strong leadership, the company has grown from a small consultancy to a regional leading firm providing high-quality engineering services in infrastructures, building, bridges, ports and aviation. He has over 43 years of experiencing in major civil infrastructure projects, and has been actively involved in the planning and management of major infrastructure developments in Sarawak. **He is a member of MIEM, P.Eng, MACEM, C.Eng, MICE and MCIWEM, CWEM.**

Ir. Sa'id Bin Haji Dolah
Director – Head of Project Management

Email : sdolah@minsar.com.my

Ir. Sa'id is an Executive Director in Minsar and is the Head of the Project Management Division in the Company. He has over 32 years of experience in Civil and Structural design and project management works. **He is a member of MIEM, P.Eng and MACEM.**

Ir. Matthew Wong Ngie Tung
Director

Email : matthew@minsar.com.my

Ir. Matthew is an Executive Director for Minsar whom he leads and oversees the operations of the Structural Division. In his over 40 years of professional practice, he has taken the lead role in the design and supervision of many major structural projects across the region. He is prominently involved in identifying and delivering engineering solutions, with wide range of experience in deep basement, long span prestressed and steel structures, high rise buildings, transfer structures, etc. He is passionate about practical design and engages the strong principle of combining structural design with construction sequence and methodology. **He is a member of MIEM, P.Eng and MACEM.**

Ir. Laurance Chiam
Director

Email : lchiam@minsar.com.my

Ir. Laurance is a structural expert with over 30 years of professional experience and has led a variety of complex, iconic structures, including Borneo Convention Centre (BCCK) and University College of Technology Sarawak (UCTS). His structural experience encompasses various categories such as residential high-rises, commercial hotels, universities, hospitals, industrial plants, and airports, whilst demonstrating extensive design knowledge in reinforced and prestressed concrete and steel structures. **He is a member of MIEM, P.Eng and MACEM.**

Ir. Voon Chi Zen
Senior Associate

Email : voon@minsar.com.my

Ir. Voon has over 20 years of professional practice with hands-on experience in the design and supervision of large-scale commercial and residential building developments. His ability in leading a design team has led to successful completion in many large and tall building projects in the region, as well as many industrial plants in collaboration with international design teams and contractors. He is also well-versed in many engineering analysis and design softwares, which has enabled him to solve many complex design challenges in concrete and steel structures. **He is a member of MIEM and P.Eng.**

UNIVERSITY COLLEGE OF TECHNOLOGY SARAWAK (UCTS), SIBU

OUR FOOTPRINT

Minsar's Structural Division has left major footprints in the field of structural engineering in Malaysia since its establishment in 1985. By combining our technical expertise and creative problem solving with practical experience, we have been providing clients throughout Malaysia with innovative solutions for safe and sustainable, yet cost efficient designs in line with their needs for serviceability, functionality and form. From initial site studies, to design, to construction and commissioning, we stand by our clients as technical experts throughout the development cycle.

Our integrated approach to engineering means that our structural engineers collaborate with planners, architects, consultants and other engineering disciplines to provide well-coordinated designs within the shortest possible time, while ensuring compliance with contractual, statutory, regulatory requirements and Quality Management System.

OUR EXPERIENCE

1996 - 1998

- SWISS GARDEN
- BEACH RESORT
- BINTULU DEVELOPMENT AUTHORITY HQ
- MENARA AFFIN

2006 - 2010

- RH HOTEL
- KINGWOOD HOTEL
- PULLMAN HOTEL
- BORNEO CONVENTION AND EXHIBITION CENTRE
- CENTURY HOTEL

2012 - 2015

- MENARA SARAWAK ENERGY
- PRESS METAL SMELTER PLANT
- AML SMELTER PLANT
- THE REPUBLIC

ASSOCIATED SERVICES

GEOTECHNICAL DESIGN & FOUNDATION SYSTEMS

- Design of Retaining Structures, Different Types of Foundation Systems for Structures, e.g. Spun Piles, Bored Piles, Pad Footing, Raft Foundation etc.

WATER AND WASTEWATER STRUCTURES

- Design of Underground and Elevated Reinforced Concrete, Prestressed Concrete and Steel Structures for Water Tanks, Treatment Plants and Reservoirs.

PORT & AIRPORT STRUCTURES

- Design of Port Structures, such as Wharves, Piers, Docks, Sheet Pile Structures etc.
- The Upgrading of Existing and Design of New Airport Terminal Buildings, Control Towers, Maintenance, Repair and Overhaul (MRO) Hangars and Utility Structures.

DEEP BASEMENT & SHORING SYSTEMS

- Structural Modelling, Analysis and Design of Deep Reinforced Concrete Basements Structures.
- Design of Temporary Shoring Systems during Construction and Repair Works.

STRUCTURAL & GEOTECHNICAL DESIGN SOFTWARE

PROKON
Fastrak
Orion
Tedds
Trimble Tekla
ESTEEM
ADAPT
AUTODESK REVIT 2020
RTM

ROADS / CIVIL / BRIDGE WORKS DESIGN SOFTWARE

mxroad
Bentley Power Civil & WaterCAD V8i
AUTODESK CIVIL 3D 2020
OpenRoads CONNECT Edition
InfoWorks ICM
xpswmm
EPANET
HEC-RAS
MIDAS
AUTODESK STRUCTURAL BRIDGE DESIGN

DRAFTING SOFTWARE

AUTOCAD
CADian
AutoCAD Revit Structure Suite 2010

AIRPORT DESIGN SOFTWARE

AVIPLAN
THE TOTAL SOLUTION FOR SIMULATING COMPLEX AIRCRAFT MANEUVERS
THREE-DIMENSIONAL AIRSPACE ANALYSIS PROGRAM
Federal Aviation Administration

2020

- SAPPHIRE ON THE PARK
- LIBERTY GROVE
- GALA CITY
- HANN'S RESIDENCE
- THE PINNACLE CONDOMINIUM
- IBRACO HQ
- HSL TOWER
- UNIVERSITY COLLEGE OF TECHNOLOGY SARAWAK
- SARAWAK STATE LIBRARY SIBU

2016

- PARAGON COMMERCIAL COMPLEX
- RIVERVALE CONDOMINIUM
- WATERFRONT RESIDENCE
- THE PEAK
- PULLMAN HOTEL AND THE WHARF CONDOMINIUM
- BALINGAN COAL FIRE POWER PLANT

CONTRACT SUPERVISION & PROJECT MANAGEMENT

- Preparation of Tender and Contractual Documents.
- Tender Evaluation.
- Construction Planning and Sequencing.

HIGH RISE BUILDINGS

- Structural Modelling, Analysis and Design of High Rise Reinforced Concrete, Prestressed Concrete and Steel Structures, such as Hotels and Condominiums.

LONG-SPAN STRUCTURES

- Structural Modelling, Analysis and Design of Long-span Reinforced Concrete, Prestressed Concrete and Steel Structures.

STRUCTURAL ASSESSMENTS / AUDIT

- Investigation, Structural Appraisal, Testing and Audit of Existing Structures.
- Formulation of Repair Methods for Existing Structural Defects.

STEEL STRUCTURES

- Structural Modelling, Analysis and Design of Portal Frames and Lattice Trusses for Workshops, Factories, Industrial Structures, Distribution Warehouses etc.

HOTELS, RESORTS AND CONDOMINIUMS

SWISS-GARDEN BEACH RESORT,KUANTAN

PULLMAN HOTEL, KUCHING

Pullman Hotel by Interhill Group is located at Jalan Mathis, Kuching.

- This development is a 23-storey five-star Hotel cum commercial centre, known as The Hills Shopping Mall.
- The basement involved deep excavation, where soldier piles system with tiebacks and soil nailing were adopted.
- The upper hotel floors were designed as prestressed flat plate on shear walls.

VALUE:
RM250 MILLION

CLIENT:
INTERHILL GROUP

YEAR:
2010

CENTURY HOTEL, KUCHING

Century Hotel, previously known as Four-Points by Sheraton, is located close to Kuching International Airport.

- This is a 12-storey four-star hotel with 421 rooms.
- The design is a conventional beam and slab system.

VALUE:
RM290 MILLION

YEAR:
2009

RH HOTEL, SIBU

RH Hotel by Rimbunan Hijau Group is located at Sibu Town Square.

- This is a 15-storey, four-star hotel complex that features 226 rooms.
- Post tensioned flat plate floor system supported on blade columns was adopted.

VALUE:
RM55 MILLION

CLIENT:
RIMBUNAN HIJAU GROUP

YEAR:
2006

KINGWOOD HOTEL, SIBU

Kingwood Hotel is located along Rajang River in Sibu.

- This 18-storey hotel extension and water front development added 252 rooms to the existing Kingwood Hotel, making it Sibu's first four-star Hotel with a total of 420 rooms.
- This structure utilises a prestressed beam and slab flooring system and 45m long prestressed concrete box girder to support the banquet roof.

VALUE:
RM90 MILLION

CLIENT:
KINGWOOD SIBU

YEAR:
2008

SAPPHIRE ON THE PARK, KUCHING

Sapphire On The Park by Naim Bhd is located at Jalan Batu Lintang, Kuching.

- The project comprises twin 18-storey and 13-storey condominium blocks with 1 basement level carpark and a total of 427 residential units.
- The condominium towers are designed as a conventional beam and slab system and are all supported on transfer floors.

CLIENT:
NAIM HOLDINGS BHD

COST:
RM150 MILLION

YEAR:
2021

HANN'S RESIDENCE, SIBU

Hann's Residence by Musyati Development Sdn Bhd is located at Jalan Wong King Huo, Sibu.

- This development consists of 2 blocks of 18-storey service apartments (416 residential units & 49 retail units) with podium carparks, 3-storey to 6-storey commercial (10 units) and a 4-storey hotel (48 rooms).
- This structure utilises a band beam system for its carpark levels, and a shear wall and slab system supported on transfer beams for its upper floors.

CLIENT:
MUSYATI DEVELOPMENT SDN BHD

COST:
RM131 MILLION

YEAR:
ON-GOING

THE PINNACLE CONDOMINIUMS, BINTULU

The Pinnacle Condominiums by Sarawak Land (Kemena Park) Sdn Bhd, part of Samling Group, is located at Jalan Tanjung Batu, Miri.

- This development consists of 2 blocks of 27-storey condominiums that houses 85 residential units.
- This structure utilises a conventional beam and slab system.

CLIENT:
KEMENA PARK SDN BHD

COST:
RM88 MILLION

YEAR:
ON-GOING

WATERFRONT RESIDENCE, SIBU

Waterfront Residence by Fullyard Sdn Bhd is located at Sibu Town Square.

- This development consists of 2 blocks of 25-storey condominium that houses 104 residential units.
- The design utilises a reinforced concrete shear wall system seated on transfer beams.
- As this building is very slender, refined deflection analysis were carried out.

CLIENT:
FULLYARD SDN BHD

COST:
RM67 MILLION

YEAR:
2016

THE REPUBLIC, KUCHING

The Republic by ELICA Sdn Bhd is located at Lorong Kempas 8, Kuching.

- This development is the winner of the best residential property development in East Malaysia, which consists of 2 blocks of 13-storey apartment buildings, with a total of 48 units (2 units per floor).
- The structure is supported using a shear wall system with system formwork.

CLIENT:
ELICA SDN BHD

COST:
RM50 MILLION

YEAR:
2015

RIVERVALE CONDOMINIUM, KUCHING

Rivervale Condominium by CMS Property Development Sdn Bhd is located at Jalan Stutong, Kuching.

- This development comprises 2 blocks of 14-storey low density apartment buildings with 146 residential units.
- This development uses a conventional beam and slab system to support its floors.

CLIENT:
CMS PROPERTY DEVELOPMENT SDN BHD

COST:
RM87 MILLION

YEAR:
2016

GALA CITY, KUCHING

Gala City by San Chin - BBC JV Sdn Bhd is located at Stampin area with the frontage facing Jalan Tun Jugah. This mixed development, encompasses an area of 32 acres, and generally utilises a conventional beam and slab system for its structures, which comprises:

- 11-storey apartment cum commercial with podium carparks,
- 8-storey commercial-office,
- 6-storey hotel with 2 mezzanine floors,
- 16 blocks of 3-storey to 6-storey commercial-shop,
- Main Sesco substation,
- Relocation of existing school,
- Conventional beam and slab system was adopted for all buildings.

CLIENT:
SAN CHIN - BBC JV SDN BHD

COST:
RM200 MILLION

YEAR:
ON-GOING

PULLMAN HOTEL AND THE WHARF CONDOMINIUM, MIRI

Pullman Hotel and The Wharf Condominium by Interhill Group is located at Miri Central Business District.

- It features a 26-storey hotel (328 rooms), 18-storey service apartment (182 units) and 20 units of 3-storey shophouses.
- Both the hotel and condominium buildings utilise a conventional beam and slab system.

CLIENT:
INTERHILL GROUP

COST:
RM300 MILLION

YEAR:
2016

LIBERTY GROVE, KUCHING

Liberty Grove by ELICA Sdn Bhd is located at Jalan Sungai Tapang, Kota Sentosa, Kuching.

- This development consists of 9 blocks of 9-storey apartment buildings with facilities such as swimming pools, basketball and futsal courts, clubhouse, gym, sauna, multi purpose function/meeting rooms, etc within this exclusive, gated and guarded community.
- Buildings are designed using a reinforced concrete shear wall system. An aluminium formwork system was used to achieve speed of construction.

CLIENT:
ELICA SDN BHD

COST:
RM150 MILLION

YEAR:
2021

THE PEAK @ PARAGON CENTRE, BINTULU

The Peak at Paragon Centre by Naim Bhd is located at Bintulu Paragon, old Bintulu airport site.

- This condominium stands at 34-storeys high with 261 residential units.
- The tower floors are designed as flat plate on shear walls supported on a transfer floor. An aluminium formwork system was utilised.

CLIENT:
NAIM HOLDINGS BHD

COST:
RM365 MILLION

YEAR:
2016

SWISS-GARDEN BEACH RESORT, KUANTAN

Swiss-Garden Beach Resort by PJ development (now part of OSK group) is located along Pantai Balok, Kuantan, Pahang.

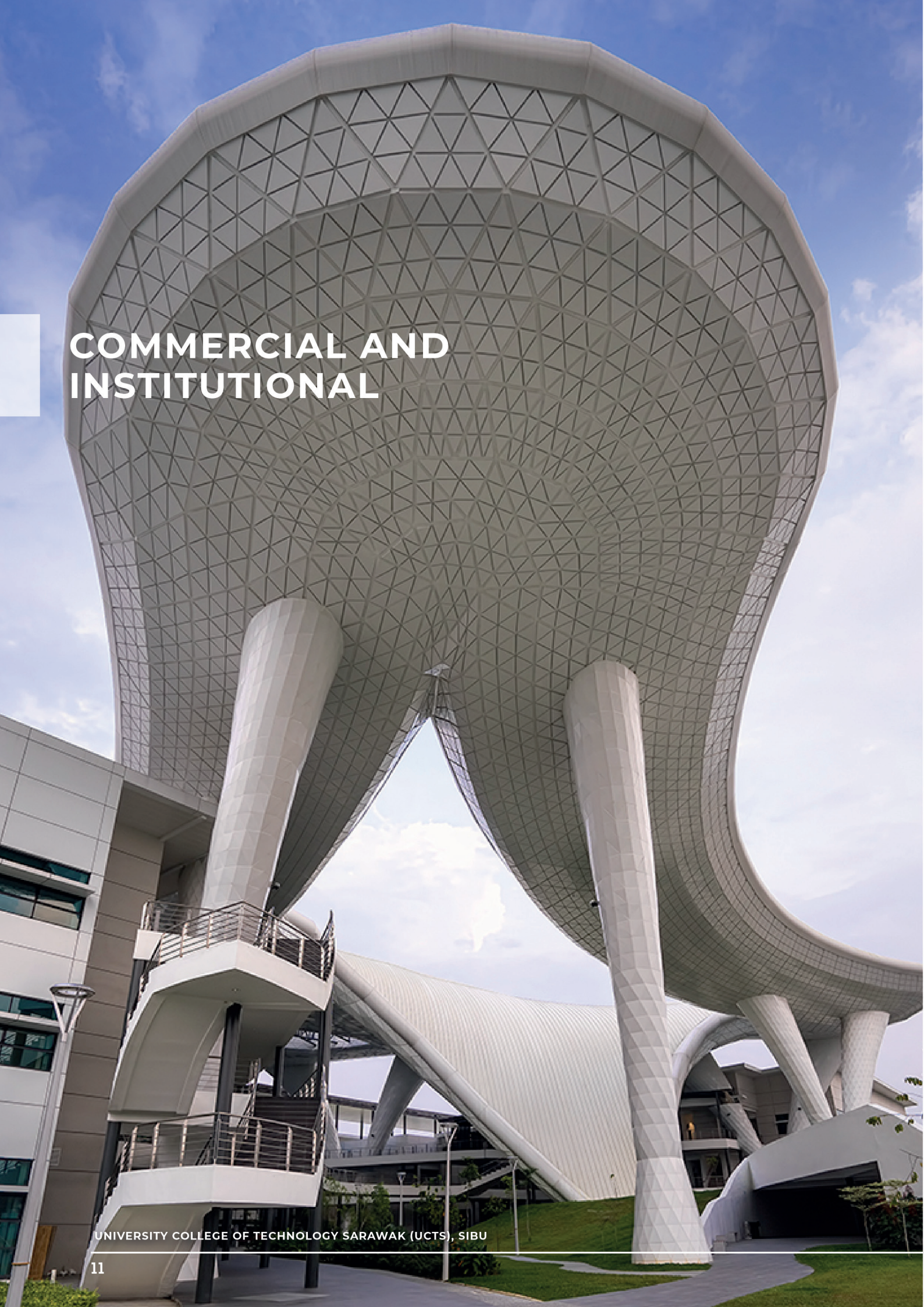
- This 5 storey structure is a four-star beach resort that features 304 rooms.
- The hotel structure utilises a conventional beam and slab system.

CLIENT:
OSK GROUP

COST:
RM60 MILLION

YEAR:
1997

COMMERCIAL AND INSTITUTIONAL



UNIVERSITY COLLEGE OF TECHNOLOGY SARAWAK (UCTS), SIBU

MENARA SARAWAK ENERGY, KUCHING

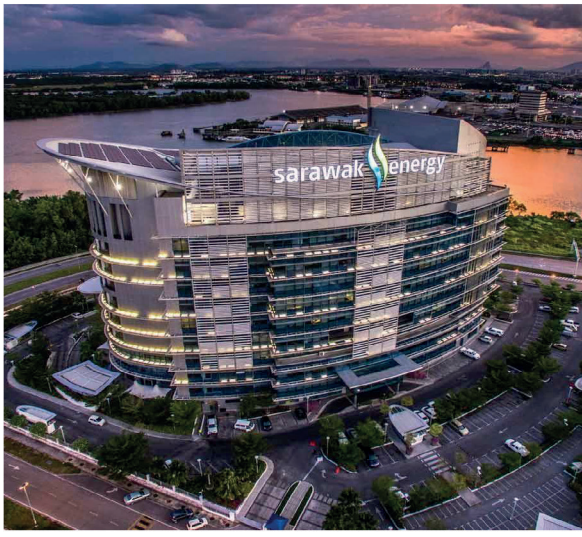
Menara Sarawak Energy by Sarawak Energy Bhd (SEB) is located at Isthmus, Kuching.

- This 9-storey office building is the first building in East Malaysia accredited for Non-Residential New Construction (NRNC) Category for Green Building Index (GBI) with Silver rating.
- The floor system consists of reinforced concrete floor slab supported on post-tensioned beams of longer spans to create column free office spaces.
- This building is founded on bored piles.

CLIENT:
SARAWAK ENERGY BHD

COST:
RM232 MILLION

YEAR:
2012



BORNEO CONVENTION AND EXHIBITION CENTRE KUCHING (BCCK), KUCHING

Borneo Convention and Exhibition Centre Kuching (BCCK) is located on a 15 acre riverfront site at Isthmus, Kuching.

- BCCK features 1,500 delegates in plenary, a 2,000 pax capacity banquet hall and 14 breakout meeting rooms and is the first dedicated convention and exhibition centre in Borneo.
- The highlight of the BCCK design is the roof structure, with the roof canopy supported by a series of exposed structural elements resembling the trunks and branches of rainforest trees.
- The 58m clear banquet hall was created using steel truss girders which in turn support a light concrete roof slab.
- The foundation for the convention centre consists of spun piles.

CLIENT:
JABATAN KERJA RAYA (JKR)

VALUE:
RM200 MILLION

YEAR:
2009

UNIVERSITY COLLEGE OF TECHNOLOGY SARAWAK (UCTS), SIBU

The University College of Technology Sarawak is located at the old Sibu airport site.

- The site covers an area of 65 acres.
- The university complex comprises multiple blocks such as academic buildings, lecture theatres, labs, administrative centre, library, convocation hall, sports recreation centre, multi-storey carparks and a student hostel.
- The main feature is the iconic rainforest canopy which provides roof covering and multi-level access to various blocks. The tree like canopy involves complicated space frame geometries.
- The university prides itself on its prestigious platinum Green Building Index rating, a testament to its sustainability and green energy initiatives. The campus here also has its very own Technology Park, the unexpected backdrop of several wedding photoshoots in years past.

CLIENT:
UNIVERSITY COLLEGE OF TECHNOLOGY SARAWAK

COST:
RM626 MILLION

YEAR:
ON-GOING

PARAGON COMMERCIAL COMPLEX, BINTULU

Bintulu Paragon by Naim Bhd is situated on the Bintulu old airport site.

- This integrated development comprises retail shops, SOVO suites, office tower, hotel block and condominiums.
- Conventional reinforced concrete beams and slab designs were adopted for most of the structures.

CLIENT:
NAIM HOLDINGS BHD

COST:
RM365 MILLION

YEAR:
2016

BINTULU DEVELOPMENT AUTHORITY HEADQUARTERS BUILDING, BINTULU

Wisma Bintulu for the Bintulu Development Authority (BDA) is located along Jalan Tanjung Kidurong, Bintulu.

- This is a conical shaped office building situated on a hill top.
- The structure comprises of a center lift core with radial reinforced concrete beams supported on perimeter raking columns.

CLIENT:
BINTULU DEVELOPMENT AUTHORITY

COST:
RM60 MILLION

YEAR:
1996

IBRACO HEADQUARTERS, KUCHING

Ibraco HQ by Ibraco Bhd is located along the Kuching-Samarahan Expressway and right beside their own Northbank development.

- This is an 8-storey corporate headquarters building linked to a 4-storey carpark.
- Reinforced concrete beams and slab design was adopted for the office block while the carpark floors was designed using one way shallow band beams and slab system.

CLIENT:
IBRACO BHD

COST:
RM42 MILLION

YEAR:
2020

MENARA AFFIN, KUALA LUMPUR

Menara Affin, headquarters for Affin Bank, is located at Jalan Raja Chulan, Kuala Lumpur.

- This development is a 22-storey twin tower office building with a net lettable area of 200,756 sq ft.
- This development features a 4 storey deep basement using diaphragm wall as a retaining structure and upper floors are supported using conventional beam and slab system.
- To create a clear span at the entrance, a central column was removed and a transfer girder was introduced which required multi-stage prestressing.
- Barrette piles were used as foundation.

COST:
RM120 MILLION

CLIENT:
OSK GROUP

YEAR:
1998

HOCK SENG LEE (HSL) TOWER, KUCHING

HSL Tower & La Promenade Mall by Hock Seng Lee Bhd is situated at the border between Kuching and Samarahan.

- This 9-storey building with commercial complex is the new headquarters for Hock Seng Lee Bhd.
- This structure is founded on spun piles and the floor system consists of one way shallow band beams and slab system.

CLIENT:
HOCK SENG LEE BHD

COST:
RM80 MILLION

YEAR:
2020

LCDA AND SEDC HEADQUARTERS, KUCHING

The Land Custody and Development Authority (LCDA) headquarters and Sarawak Ecomonic Development Corporation (SEDC) headquarters are located right beside Menara Sarawak Energy at Isthmus, Kuching.

- This development consists of 12 storey tall twin towers and both of these office buildings adopted reinforced concrete beams and slab design.

CLIENT:
LCDA & SEDC

COST:
RM100 MILLION

YEAR:
2017

INDUSTRIAL DEVELOPMENTS

600 MEGAWATT BALINGIAN COAL FIRE POWER PLANT,MUKAH

FERRO MANGANESE ALLOYS SMELTER PLANT FOR AML AT SAMALAJU INDUSTRIAL PARK, BINTULU

ALUMINIUM SMELTER PLANT AND SUPPORTING FACILITIES FOR PRESS METAL, BINTULU

The Balingian Coal Fired Power Plant by Sarawak Energy Berhad (SEB) is located in Mukah with a power generating capacity of 600 megawatts.

- Notable structures includes 2 nos. 102m base diameter by 128m tall shell concrete cooling tower, 5 storey main power building and boiler house of steel structure, a chimney tower of 19m diameter by 170m high, and a coal storage shed of steel space frame spanning 159m.

CLIENT:
SARAWAK ENERGY BHD

COST:
RM1.5 BILLION

YEAR:
2016

Malaysia's first manganese alloys and ferrosilicon smelting plant by Pertama Ferroalloys Sdn. Bhd. is located at Samalaju Industrial Park, Bintulu.

- The complex covers an area of 169 acres.
- The plant consists of many multi-level steel structures generally erected using steel frames with bondek floors support on steel beams.

CLIENT:
PERTAMA FERROALLOYS SDN BHD

COST:
RM700 MILLION

YEAR:
2014

Press Metal Aluminium Holdings Bhd's aluminium smelting plant is located at Samalaju Industrial Park, Bintulu.

- This 1km long raised platform smelting plant which houses about 300 smelting pots, boasts a production capacity of 320,000 metric ton per annum.
- The plant building consists of steel portal frame structures with lifting cranes.

CLIENT:
PRESS METAL ALUMINIUM

COST:
RM700 MILLION

YEAR:
2013

OTHER NOTABLE PROJECTS

HOTELS, RESORTS AND CONDOMINIUMS

- Promenade Hotel, 22-Storey Hotel with 2 Levels of Basement Carpark at Bukit Mata, Jalan Padungan, Kuching.
- Bay Resort Condominiums and Service Apartments, 3-Blocks of 18-Storey Condominiums and Serviced Apartments, Tanjung Lobang, Miri.
- Vantage @ Tamu, 12-Storey Commercial / Apartment with Sub-Basement, Jalan Stampin Tengah, Kuching.
- Urban Residences, 17-Storey Commercial / Apartment, Jalan Central Timur, Kuching.

COMMERCIAL AND INSTITUTIONAL

- Wisma Hasil (also known as Wisma Ting Pek Khiing), 18-Storey Office Building at Jalan Padungan, Kuching.
- Mukah Polytechnic, Mukah Division, Sarawak.
- Permata Multi-Storey Carpark, 1,000-unit Carpark & Food Stalls, Kuching.
- Imperial Mall, 23-Storey Commercial, Office and Residential Complex, Jalan Merpati, Miri.
- Serian Piazza, Mixed Development of 3-Storey Shophouses, 9-Storey Hotel, Hypermarket and Food Court, Serian.

INDUSTRIAL DEVELOPMENTS

- X-FAB, Renovation and Extension to Existing 3-Storey Administration Building, Sama Jaya Free Industrial Zone, Kuching.
- OceanMight Sdn. Bhd. (Subsidiary of KKB Engineering Bhd.), 40m Wide x 200m Long x 50m Tall Covered Fabrication and Assembly Yard with 100 tons Crane Lifting Capacity for Offshore Wellhead Platform Structures, Jalan Bako, Kuching.
- Universal Cable Sarawak (UCS), Cable Factory at Demak Laut Industrial Estate, Kuching.

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