

Structure



ENGINEERS

total engineering services



Pusat Rehabilitasi PERKESO



Mission Statement

“To be recognised as Malaysia’s premier one stop one engineering service provider, as reflected in our continuous outstanding contribution to the development of major infrastructure; and maintain this position through excellent services and superior technical quality, innovation and performance”.

This vision is realised through:

Personal involvement of the directors to provide strong leadership to ensure timely and speedy implementation of both corporate objectives & goals.

Existing effective and efficient corporate structure to provide maximum operating efficiencies to the Group.

The vast base of experience within the Group that helps to leverage its niche in the engineering arena.

The availability of capital within the Group to provide adequate funding strength for Group operations.

Continuous quality engineering services upgrading through constant re-engineering process and training while maintaining the existing standard of professionalism.





Corporate Information

HSS Engineers Berhad (HEB or the Company) is an investment holding company which was incorporated on 23 January 2015 under the Companies Act 1965 as a private limited company under the name of HSS Engineers Sdn. Bhd. before it converted into a public limited company. The Company assumed its present name on 31 March 2015. The Group operates from 3 main offices which are based in Kuala Lumpur and Penang in Malaysia as well as Chennai in India. HEB, had on 28 March 2018, completed the acquisition of SMHB Engineering Sdn Bhd (SMHB) which provides engineering services and project management consultancy for the water sector.

Its associate company, HSS Integrated Sdn Bhd (HSSI), is currently one of the leading ISO Certified (ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007) engineering consultancy firms in Malaysia. With a proud history over the last 30 years, HSSI is a firm with shared values, an open culture, commitment to services & quality, provision of high standards of professionalism and business ethics, along with a leading edge approach to delivering a sustainable future.

Our expertise includes project management, master planning, preliminary and detailed engineering designs, construction supervision, contracts administration, feasibility studies for major infrastructure project in South East Asia, Middle East and North Africa (MENA) and South Asia. The Group's results are evident from the track records of vast experience and timely delivery of projects in addition to the established good working relationships with clients from both the public and private sectors.

As a total engineering solution Firm with a global total workforce of over 1000 staff of which more than half are engineers, HEB is able to draw on resources within and is well equipped to handle projects of varying magnitudes. HEB is confident that as a group, similar engineering consultancy services can be provided in other parts of the world mainly in the transportation and urban infrastructure development projects. The group is confident that with the experience and track record, it will be able to provide a high standard of engineering services to any client.

Structure Capability

HSS provides structural engineering services to a wide range of industries, including education, healthcare, commercial, industrial, residential, off-shore and others. Utilizing state-of-the-art analysis and design software, our highly experienced professional team works collaboratively with other disciplines to provide thoughtful solutions for all range of structural engineering needs.

Systems are proposed on the basis of project size, geometry, function and architectural requirements. Final recommendations are based on serviceability, constructability and architectural requirements, as well as cost.

HSS's staff have design and construction experience with a wide variety of structural systems, permitting the evaluation of potential systems without bias. We have the expertise to select, design and detail the best structural system to meet the particular needs of each project.

Our design capability includes the following:

- Cast-in-place reinforced concrete
- Cast-in-place post-tensioned concrete
- Composite steel and concrete
- Pre-cast concrete
- Steel Structures
- Timber Structures
- Foundations



Services



1. Preliminary and Detailed Design
2. Value Engineering
3. Project Specification
4. Contract Documentation and Administration
5. Quality Control and Construction Supervision
6. Material Testing and Inspection
7. Project Scheduling
8. Project Management
9. Structural Study and Assessment (Forensic Engineering)
10. Cost and Budget Control
11. Technical and Engineering Feasibility

Structure Experience

MYIPO – Tower 6, Petaling Jaya

Description : My IPO tower sits on 338 acres of land and consists of 24 + 5 Storey Office Tower & 5 levels of underground basement (car park and service floor)

Services : Detailed Design & Construction Supervision (C&S)

Project value : RM 90 mil (USD 28.3 mil)

Project Type : Mixed Development

Zeelan Tower, Bandar Sri Permaisuri

Description : The project involves the construction of a 2 storey RC framed structure measuring 10 cm by 78 m in plan and serves as the students centre for the University Malaysia, Sabah Campus.

Services : Detailed Design & Construction Supervision (C&S)

Project value : RM 85 mil (USD 27.3 mil)

Project Type : Mixed Development

Selbourne Square (Shah Alam City Centre), Malaysia

Description : Covering a land area of approximately 8.65 acres consisting a 400 room, 28-storey luxury hotel, 26-storey government office block, 7- storey shopping complex and a 24-storey & 17-storey office block.

Services : Detailed Design and Construction Supervision (C&S)

Project value : RM150 mil (USD 42.8 mil)

Project Type : Mixed Development

Putrajaya Government Administration Centre (4G8), Malaysia

Description : Government building located in the administrative city of Putrajaya where the building is 32-storey high with 4 levels of basement (car park & M&E facilities)

Services : Detailed Design & Construction Supervision (C&S)

Project value : RM 100 mil (USD 31.25 mil)

Project Type : Mixed Development

168 Unit Condominium of Jalan Wickham, Malaysia

Description : 6 Blocks of 4-storey residential buildings with club house, guard house, maintenance office, tennis court, swimming pool and wading pool

Services : Detailed Design & Construction Supervision (C&S)

Project value : RM 60 mil (USD 18.8 mil)

Project Type : Mixed Development

Structure Experience

Residential Apartment Phase 2, Putrajaya Precint II, Malaysia

Description : Design for Structural and Infrastructure works of 226 unit's apartment and 2 blocks of 16-storey apartment building.

Services : Detailed Design & Construction Supervision (C&S)

Project value : RM 17 mil (USD 5.3 mil)

Project Type : Mix Development

Residential Development, Phase 1, Precint II

Description : Linked houses and semi-detached bungalows where the construction was carried out using the units for the both the load bearing works and the responded floor slabs.

Services : Detailed Design & Construction Supervision (C&S)

Project Value : RM 120 mil (USD 37.5 mil)

Project Type : Mix Development



Structure Experience

Project Bandar Sri Permaisuri, Cheras, Malaysia

Description : Scope included design and construction for all infrastructures, buildings and utilities for the Civil & Structural and Mechanical & Electrical services.

Services : Detailed Design and Construction Supervision (C&S + M&E)

Project value : RM 600 mil (USD 171 mil)

Project Type : Township

Bandar Baru Nilai for NSIDC (2,700 Ac), 1992

Description : HSSI was appointed to provide engineering consultancy services for Bandar Baru Nilai (BBN). The project covered a total area of approximately 6230 acres and was designed to serve a major Commercial Corporate Centre for the northern part of Negeri Sembilan.

Services : Engineering Consultancy Services

Project value : RM 1.2 bil (USD 377 mil)

Project Type : Township

Selayang Hospital, Malaysia

Description : Constructed on a 20 hectares site the hospital caters for 964 beds with the provision for expansion to 1000 beds and medically equipped to international standards.

Services : Detailed Design and Construction Supervision (C&S)

Project value : RM 74 mil (USD 21 mil)

Project Type : Hospitals & Rehabilitation Centre

Rehabilitation Centre in Ayer Keroh, Melaka, Malaysia

Description : The first rehabilitation medical HUB for PERKESO with a land of 53 acres.

Services : Detailed Design and Construction Supervision (C&S + M&E)

Project value : RM 163 mil (USD 50.9 mil)

Project Type : Hospitals & Rehabilitation Centre

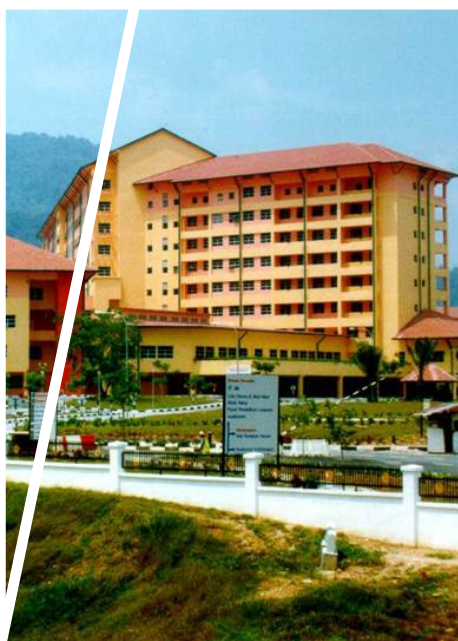
Sultanah Aminah Hospital – Rehabilitation

Description : This assignment was carried out with the dimensional and condition survey of the building, involving reinforcement assessment using covermeter instruments and selective concrete breakouts to determine reinforcement configuration.

Services : Detailed Design, Forensic Engineering and Construction Supervision (C&S)

Project value : RM 25 mil (USD 7.8 mil)

Project Type : Hospitals & Rehabilitation Centre



Structure Experience

University Technology Petronas at Tronoh, Perak (500 Ac), 1998-2003

Description : The 400 hectare landmark University Campus with its "State-of-the-art" facilities is known as "University in the forest". The University consists of 23 academic blocks built around a crescent shaped green park with an annexed "signature building" to house the administration resource centre.

Services : Master plan, Detailed Design and Construction Supervision

Project value : RM 1 bil (USD 304 mil)

Project Type : Institution

University Malaysia, Sabah, Malaysia

Description : Construction of a 2-storey RC framed structure measuring 10cm by 78m which serves as the students centre for the university.

Services : Detailed Design and Construction Supervision (C&S)

Project value : RM 11 mil (USD 3.475 mil)

Project Type : Institution

Matriculation College, Selangor, Malaysia

Description : The college is located in Banting, Selangor on a 90 acres site comprised academic, administration, residential, recreational and associated facilities.

Services : Detailed Design and Construction Supervision (C&S + M&E)

Project value : RM 266 mil (USD 83.1 mil)

Project Type : Institution



Structure Experience

Industrial Project for Iron Ore Plant

- Description** : The project consists of the main plant, jetty, material handling stockyard, process facility and associated infrastructure facilities.
- Services** : Detailed Design and Construction Supervision (C&S)
- Project value** : *RM 200 mil (USD 64.3 mil)*
- Project Type** : Industrial & Power Plant

Corporate Office and Factory for SIDEL, Malaysia

- Description** : Factory/Office building on a 7.75 acres of land with the building measuring 15,000 sqm specially designed to cater requirements of SIDEL International French standards and quality.
- Services** : Project Management
- Project value** : *RM 15 mil (USD 4.3 mil)*
- Project Type** : Industrial & Power Plant

Poltyfelt Factory (Geotextile), Malaysia

- Description** : A built up area of 6700m² which consist of production building, warehouse, office and other miscellaneous structures. The building houses a geotextile production line which is supported on piled structure due to poor ground condition at the site.
- Services** : Detailed Design and Construction Supervision (C&S + M&E)
- Project value** : *RM 13 mil (USD 4 mil)*
- Project Type** : Industrial & Power Plant

Balance of Plant (BOP) for the 1000MW Coal Fired Power Plant Extension

- Description** : The project consists of the design and construction of a 1000MW coal fired power plant for Tenaga Nasional.
- Services** : Detailed Design & Construction Supervision (Geotechnical, C&S + M&E)
- Project value** : *RM 720 mil (USD 226 mil)*
- Project Type** : Industrial & Power Plant



Structure Experience



Transtherm Power Industries, Park Manjung, Perak

- Description** : The development comprises structures of reinforced concrete construction and 3 steel industrial buildings. It also includes a 4 bay 30m span steel structure with a build up area of 14,400 m2.
- Services** : Detailed Design & Construction Supervision (C&S)
- Project value** : *RM 25 mil (USD 7.8 mil)*
- Project Type** : Industrial & Power Plant

Panglima CCGT Power Plant, Teluk Gong, Melaka

- Description** : HSSI were appointed by Zelan Construction Sdn Bhd to provide the engineering consultancy services for the Panglima CCGT Power Plant Main civil works.
- Services** : Detailed Design & Construction Supervision (C&S)
- Project value** : *RM 50 mil (USD 15 mil)*
- Project Type** : Industrial & Power Plant

Extension of Existing Petrochemical Plant, Teluk Kalong, Terengganu

- Description** : Extension of existing plant for manufacturing N-Butane as food stock. The extension works for the N-Butane plant are Mixed Butane to N-Butane conversion, Flare stack & Storage tanks
- Services** : Detailed Design & Construction Supervision (C&S)
- Project value** : *RM 4 mil (USD 1 mil)*
- Project Type** : Industrial & Power Plant



Structure Experience

Fabrication of KBB Topsides

Description : HSSI was engaged by Malaysia Marine and Heavy Engineering (MMHE) to study, investigate the existing pile, pile cap and skid track structure and to remedy structure to safe condition for the purpose of load out.

Services : Remedial work, Detailed Design & Construction Supervision (C&S)

Project value : RM1.15 bn (Topside Cost) & RM10 mil (Remedial work)
(USD 393 mil)

Project Type : Off-Shore & Yard Development

Lumut Port Industrial Park, Master Plan Design

Description : The Lumut Industrial Park consist Mix-Industrial development inclusive of Port, Light, Medium, Heavy and Terrace Factory Shop lots. HSSI was appointed to provide the infrastructure master plan, liaison with the approving authorities and obtaining the approvals.

Services : Master Planning

Project value : RM 90 mil (USD 28.3 mil)

Project Type : Off-Shore & Yard Development

Kuantan Port Expansion

Description : The project involves the expansion of the existing Kuantan Port by excavating a new inner harbour basin. The expansion involves the excavation of approximately 15 million cubic meters of sand and clay to be disposed in an approved dumping ground off shore.

Services : Detailed Design

Project value : RM 150 mil (USD 47 mil)

Project Type : Off-Shore & Yard Development

Modification and Upgrading of Existing East, West and North Wharves and Ancillary Works, Malaysia

Description : Approximately 250m length of existing wharf needed to be upgraded to receive a higher loading capacity of oil rig jacket.

Services : Feasibility Study, Detailed Design and Site Supervision

Project value : RM 30 mil (USD 8.5 mil)

Project Type : Off-Shore & Yard Development

External Infrastructure and Ancillary Yard Facilities, Westport Development, Malaysia

Description : Construction and completion of external infrastructure and ancillary yard facilities.

Services : Design and Construction Supervision (C&S)

Project value : RM 100 mil (USD 28.5 mil)

Project Type : Off-Shore & Yard Development



Structure Experience

Ampang (AMG) LRT Line Extension & LRT Depot, Malaysia

Description : Extension of the Ampang (AMG) LRT Line of approximately 17.7km in length from Sri Petaling to Terminal Station of Putra Heights.

Services : Detailed Design and Consultancy Services

Project Value : *RM 208 mil (USD 59.4 mil)*

Project Type : Transportation Related Projects

Mass Rapid Transit (MRT), Kelang Valley

Description : The SBK line is 51 km long, with 41.5 km elevated and 9.5 km underground. Total of 31 stations, out of which 7 are underground. 16 nos. Park & Ride facilities with multi level car parks are proposed. Some of the stations are proposed to be integrated with existing stations of KTMB, ERL, LRT, and Monorail via interchanges.

Services : Independent Consultant Engineer (ICE)

Project Value : *RM 18 bil (USD 5.6 bil)*

Project Type : Transportation Related Projects

5500 Units of Houses, Brunei

Description : The Government of Brunei Darussalam through the Brunei Economic Development Board (BEDB) appointed HSSI as the Project Management Consultants (PMC) to manage and implement up to completion of the 5500 units of houses. HSSI managed the projects from conceptual stage, construction until handing-over to BEDB.

Services : Project Management

Project value : *RM 2.1 bil (USD 646.3 mil)*

Project Type : Project Management

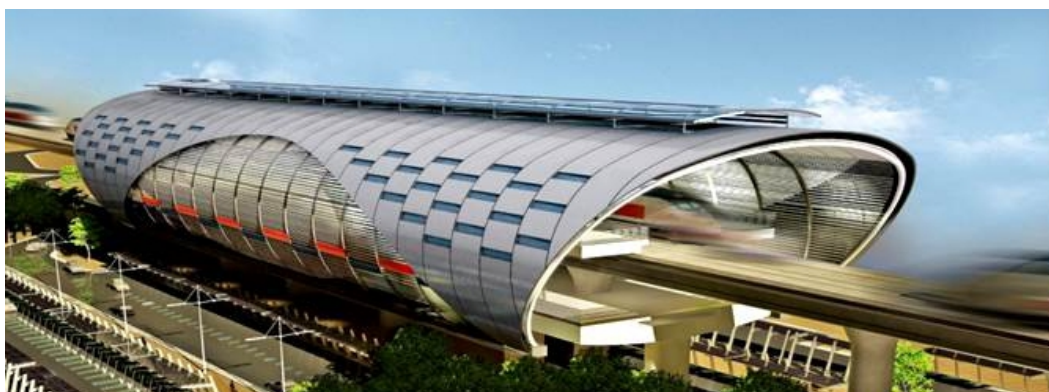
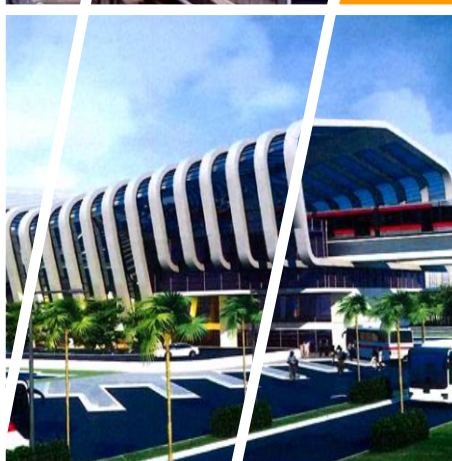
University Malaysia, Sabah, Malaysia

Description : The expansion programme under Phase II of University Malaysia Sabah (UMS) development programme included five new faculty buildings, sports facilities, hostels and relevant infrastructure works.

Services : Master Plan, Detailed Design and Construction Management

Project value : *RM 500 mil (USD 156.25 mil)*

Project Type : Project Management





ENGINEERS

HSS ENGINEERS BERHAD

HEB Group comprises the following companies:

HSS Engineers Berhad (1128564-U)

HSS Engineering Sdn. Bhd. (450753-X)

SMHB Engineering Sdn Bhd (167729-A)

BIM Global Ventures Sdn. Bhd. (1008362-V)

HSS BIM Solutions Pvt. Ltd. (incorporated in India)(U74900TN2012PTC086741)

SMHB Environmental Sdn. Bhd. (258815-X)

Our associated companies held through HSS Engineering Sdn Bhd are as follows:

HSS Integrated Sdn. Bhd. (173262-T)

HSS Mekanikal & Elektrikal Sdn. Bhd. (228667-K)

The associated company held through SMHB Engineering Sdn Bhd is as follows:

SMHB Sdn. Bhd. (63281-X)

HSS Engineers Berhad

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