

Total Engineering Solutions







VENDORS

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ABOUT US

At a Glance

Straits Technics Sdn. Bhd. (STSB) (formelly known as Straits Electrical Sdn. Bhd.) was incorporated under the Registrar of Companies in 1982 as a local Malaysian Bumiputera company. It was founded by the late Haji Daud and family and the paid up capital was RM 50,000.00. At that time most of the projects carried out were from government agencies such as the Public Works Department (PWD), Tenaga Nasional Berhad (TNB), and Seberang Perai Municipal Council (MPSP). Almost all the projects implemented had to do with the wiring of schools and low-voltage electrical work.

In May 1995, the company was taken over by a professional and innovative management team, ably led by Ir. Adham Bin Salleh. Since then, the company has grown from strength-to-strength as its activities have branched from the supply and installation of air conditioning systems, electrical installations for the control equipment to the installation of electrical systems for substations up to 33KV.

In 1996, the company was recognized as a charismatic Bumiputera Construction Contractor. In 2000, the company was awarded the Village Street Light project by the Ministry of Rural valued at RM 1.5 million.

In 2002 the company was awarded the project to design, supply and install electrical systems for the Nibong Tebal Industrial Training Institute under the auspices of the Ministry of Human Resources with total value of RM 10.5 million.

On February 2016, Amir Shafiq Bin Adham was appointed as Managing Director /

Chief Executive Officer for STSB. Under his management, STSB has further reinforced its vision and mission to become a leading contractor in the country specializing in mechanical and electrical systems. In line with these aspirations, we have been working in partnership with local and foreign companies which have the expertise in the fields of air conditioning, water pump and high-voltage electric systems. Some of the companies that work with us are Acson Malaysia Sales & Service Sdn. Bhd, Sime Darby Electropack Sdn. Bhd. and Midea Scott & English Electronics Sdn. Bhd. This collaboration is expected to further strengthen our company in terms of commercial and technical areas in order to serve the community vis-à-vis the 2020 national vision.

On 21st December 2016, STSB had been selected to join the UEM Vendor Development Program . The objective of this program is to develop the vendor to become more competitive in the national and international level.

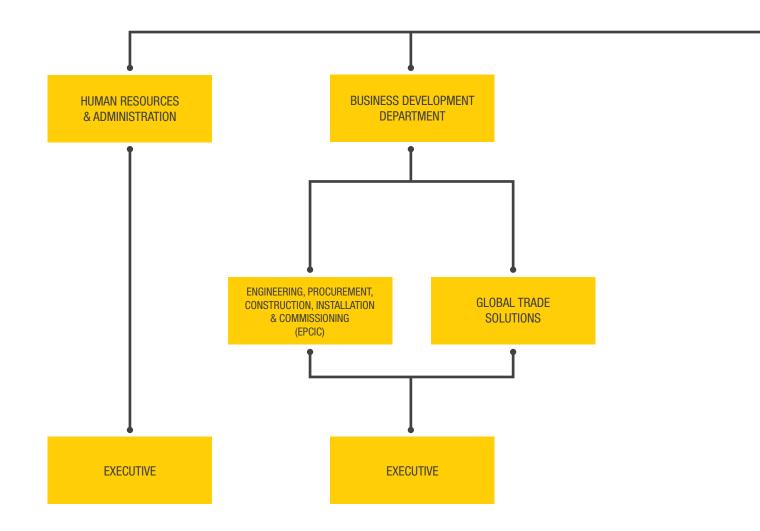
Currently, STSB have plans to further strengthen the three business pillars over a period of 9 years between 2016 and 2025 which have been enshrined in the company's strategic plan. It includes a conventional business that focuses on the inclusion of the tender, retail and online businesses where our services and products continue to be sold to the end-user, and a branch-based single distribution where our focus is to market mechanical electrical or equipment highlighting the fact that we are the exclusive agents - the only company to be granted distribution rights for the product in the country.



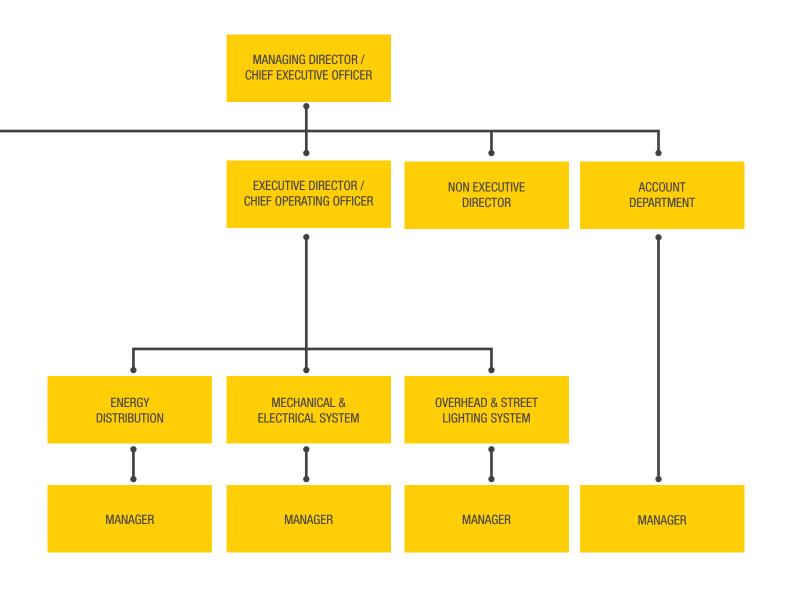




ORGANISATION STRUCTURE







BOARD OF DIRECTORS



Amir Shafiq Bin Adham
Managing Director / Chief Executive Officer

Amir Shafiq Bin Adham is a mechanical engineer registered with Board of Engineers of Malaysia and currently held the role as Managing Director / Chief Executive Officer to the Straits Technics Sdn. Bhd. (STSB).

After attaining his Bachelor Degree of Mechanical Engineering from Universiti Teknologi Malaysia (UTM) in 2013, he was selected to join the fellowship program named Felo Pembinaan Malaysia organized by Construction Industries Development Berhad (CIDB) in 2013 / 2014. As one of the most prestigious fellowship program in Malaysia, he managed to complete the course for Certified Construction Project Manager (CCPM) by CIDB in one month.

He then continued to develop his knowledge on project management skills and gaining knowledge on safety, health & environment issues related to the oil and gas industries. To in line with the industry needs, he continued gaining his competency by possessing a BOSET Certificate and Green Card Oil & Gas by CIDB in the same year.

He then started his career at Global Offshore Malaysia (GOM) Resources Sdn. Bhd. in January 2015 as a field engineer. Working with of the most well known Offshore Installation Contractor in Malaysia, he began to learn engineering standard codes regarding pipeline installation. He was involved with one of the biggest pipeline project in Malaysia named EVA (JDA) Project for Petronas Carigali Sdn. Bhd.

His main responsibility as Managing Director/ Chief Executive Officer at Straits Technics Sdn. Bhd. (STSB) includes day to day operations and designing the strategic plan for the growth of the company. His proven ability to develop and strengthen management teams in order to maximize company profitability and efficiencies has led to a dynamic and progressive organization. His excellent communication skills, is able to establish sustainable and profitable relationship with customers, suppliers and stakeholders across the business area.





Norharizal Bin Ismail
Executive Director / Chief Operating Officer

Graduated from Institute of Industrial Studies in Nibong Tebal, Norharizal Bin Ismail quickly put himself into several disciplines of engineering where he started his career at United Mal (JAP Air-condition Sdn. Bhd.) in October 1995.

His deep understanding and responsibility in technical and electrical appliances in providing excellent works while managing control systems, wiring and arc welding has granted him a position with Idaman Suri Electro Mechanical Services Sdn. Bhd. in December 1996. He held the role as a senior technician where he extended his experience doing single phase wiring and three phase wiring including motor control centre and troubleshooting electrical automation system.

His vast expertise and potentials has led him into United Chemical Industries Bhd in August 1999 where he expand his responsibility in PLC control system, switchgear, transformer, pump installations and installation of textile machine manufacture.

As the current Executive Director / Chief Operating Officer at Straits Technics Sdn. Bhd. (STSB), he continues to perform excellent and continuous results. His direct role in leading the company has provides huge projects including supplying lightning system at Penang Bridge, repairing submersible and vertical pump for Penang International Airport, comprehensive maintenance system along the region PLUS - North South Expressway as well as maintaining 11kV electrical substation for Tenaga Nasional Berhad (TNB).



Anuar IsmailExecutive Director

Anuar bin Ismail has joined Straits Electrical Sdn. Bhd. (SESB) as a Head of Maintenance Division in March 1999 until 2012 and thereafter was appointed as the Executive Director to the company starting November 2001 to date.

He started his career in October 1982 as a Leader to the Technician at Malayawata Steel Berhad (Malayawata) where his major role was conducting installations and commissioning electrical appliances for 80 Tone D.C Furnace as well as electrical equipments for continuous costing machine. On top of that, he also has in depth knowledge on maintaining and servicing air circuit breaker, vacuum circuit breaker, and AC/DC type of motors and transformers.

His vast working experienced and his credibility has led him to be an Assistant Engineer to Malayawata. Starting October 1997, he was able to manage multiple projects including wire rod mill for No.2 Rolling Mill and water facility for No.2 Steel Making Plant.

His role as Head of Maintenance Division with Straits Electrical Sdn. Bhd. (SESB) was instrumental to his team. He gradually develops his managing skills and took charge of completing and managing maintenance and operations for mechanical and electrical instruments covering section N4 PLUS Highway.

During his tenure, he is committed to drive year-to-year business growth and also to ensure the adherence of the company's daily activities and long-term plans towards the establishments of the company. This aligns together with his role to forge and maintain relations of trust with company's shareholders and partners.

His motivational management style is building, guiding and retaining high-performance teams to develop and implement strategies for accelerated growth and continue to strive to optimize operations, reduce cost and improve service quality while strengthening the bottom-line. He is currently an Executive Director for Straits Technics Sdn. Bhd. His role is focusing on empowering the personnel motivation in order to improve the organization productivity

CORPORATE BUSINESS UNIT



STSB is a local Malaysian Bumiputera company providing total engineering solutions to the various industries with operational facilities in Malaysia. Within engineering solutions, we undertake EPCIC works as well as providing Operation & Maintenance services.

Business Units under STSB are:

Engineering, Procurement, Construction, Installation & Commissioning (EPCIC) Business Unit
 This unit is tasked with overseeing and providing solutions involving engineering, material procurement, construction and commissioning of a certain project.

Plant Operation & Maintenance Business Unit

The Plant Operations & Maintenance unit is engaged in facilities activities, including those related to the operation, maintenance, and management practices.

Global Trading Business Unit

This unit engages in the procurement, importation, exportation and international trading of engineering parts & production items. GTBU also participates in international trading that supports the business activities to enhance their competitive edge and profitability.



ENGINEERING, PROCUREMENT, CONSTRUCTION, INSTALLATION & COMMISSIONING

In association with our partners, STSB has established a regional network of customers for our EPCIC and we are expanding our range of services to capitalize the growing energy market within the local and regional market.

Our EPCIC capabilities include civil works, mechanical & electrical works, comprising of planning, design, procurement, delivery, installation, testing, commissioning and after sales service of the completed project.

Generally, EPCIC comprises the following four major functions:

Engineering:

This portion of work requires engineering capabilities relating to the specifications of the total project including individual equipment and structures.

Procurement:

This portion of the work involves obtaining supply of all raw materials, products and other items needed to construct or fabricate the project. The procurement function aims to obtain supplies in a timely manner, cost effectively and complying with product, service and quality specifications.

Construction / Installation:

This portion of the work relates to the construction, fabrication and installation of all products, parts and components and integrating them to an operational unit, facility or plant that meets all product, quality, safety and engineering specifications.

Commissioning:

This is the final portion of the project work, where the completed product or project is tested and installed and if required integrated to other facilities or operations before it is finally commissioned for live operations.

OUR STRENGTHS

Knowledgeable & Experienced Personnel

Experienced personnel in STSB has long involvement with mechanical & electrical system ranging from rotating equipment to the high/ medium voltage system. We have experienced engineers, technician and charged man with deep knowledge and can deliver superior quality work with the assistance of our experienced partners.

Equipment , Tools & Machineries

STSB has a complete range of tools, equipment and machineries to be able to complete projects such as basic tools for electrical & instrumentation, pressure tester, HV Megger tester, cranes, welding set and generator set.

Global Technical Support

Throughout our more than twenty (20) years of establishment, we have establishing the support from our partners and vendors across the region. This is a big advantage for us where our team will be advised and supervised from the principal expert across the border towards solving the problems.

MECHANICAL ENGINEERING SERVICES



Water Pumping System

We are specialized in designing water pump system especially in flood control and irrigation purposes. Our team is also competent to carry out maintenance program for this application in order to improve the performance of flood mitigation plan and irrigation condition. We offer a practical and affordable solution to our clients in order to obtain reliable and cost-effective system.

Heat Ventilation, Air Conditioning System (HVAC)

HVAC involves indoor and vehicular environmental comfort, specifically the provision of thermal comfort and acceptable indoor air quality. HVAC is an important part for industrial scale such as hotels, hospitals, onboard vessels, and marine environments, where safe and healthy building conditions are regulated with respect to temperature team can provide total solutions for HVAC system and humidity, using fresh air from outdoors. Our expert based on clients' requirements.









Fire Protection System

We offer a wide variety of fire protection systems that ensure the highest quality of protection for any facility. We will help you choose the fire protection system that best fits your needs for simplicity, reliability, and ease of maintenance. Each fire protection system is custom designed to meet all applicable codes, time, and budgetary guidelines.

Off-Site Fabrication

Off-site fabrication involves preparing components ready for assembly on site. With careful planning, it can be completed quickly and efficiently by our well-trained and qualified personnel. Our teams can work in various conditions and offer the following range of services:

- Welding and development
- · Manpower and welding equipment

ELECTRICAL ENGINEERING, INSTRUMENTATION & CONTROL SYSTEM SERVICES



High Voltage System / Medium Voltage System

As a qualified EPCIC contracting company, our services includes planning, design, engineering, equipment supply and customization, procurement, delivery, installation, testing commissioning of power transmission and distribution network. We provide full spectrum of custom-designed High Voltage (HV) and Medium Voltage (MV) substation system solution to extend the life span and reliability of customers' distribution assets. This includes provision of HV / MV equipment ranging from switchgears to transformers.

Complex substation construction projects require total solutions and full life cycle support. Our proven experience in the industry and full scope of services has enabled us to be the power technology system solution provider of choice.

Low Voltage System

Our team is well trained in handling all the components for the low voltage system inclusive of below services:

Building Wiring Installation

This service encompasses the selection, procurements, usage of specific types of cables in addition to conduits, distribution boards, luminaries, lightning protection system, inspection, testing and commissioning. We can provide solution from designing a system until endorsement of wiring system.

Generator Set

We offer generator sets system that fit very specific criteria encompassing fuel type, power rating and application based on real-world applications and requirements. Our specialized team will provide one stop solution from design, installation until carrying periodic maintenance for the system installed.









Lightning Protection & Earthing System

Lightning is one of the biggest threats to mankind and animals apart from property loss. When there is a threat, risk will always be there, which needs to be mitigated. Otherwise there will be damages which results in losses.

Due to the enormous increase of the high rise buildings, the risk has only increased to manifold. To address the issue, in 2007, Malaysia adopted the IEC 62305 as Malaysian Standard (MS) for this system.

In addition, STSB offers quality consultancy and services that includes:

Site Evaluation - We offers complete site evaluation complete with major site findings, causes of damages and customized solutions in accordance to the highest International Standards Consultancy Engineering, Design & Installation - This includes total surge protection design, comprehensive lightning and earthing designs, technical drawings as well as risk assessment.

Extra Low Voltage system

Our team of consultants and experts provide design, integration and implementation services that incorporate a wide range of digital multimedia, audio visual and security systems.

Street Lighting

Our street lighting solutions encapsulate innovative design and technical precision, allowing us to provide a range of street lighting schemes that maximize photometric performance and minimize light pollution using the latest energy efficiency technologies. This technology had been portrayed in the latest series of national landmark which is installation of street lighting system at Jambatan Sultan Abdul Halim Mu'adzam Shah or familiar known as Jambatan Kedua Pulau Pinang. We have completed this project not only within the budget allocated but also ahead of the schedule planned.





Airfield Ground Lighting System

Our integrated solution covering of products and services are to ensure safety measurements from landing to take off, comprising of LED runway, taxiway lights, and controlled constant current regulators. We offer an innovative portfolio of customized services ranging from design and development, installation, and maintenance services.

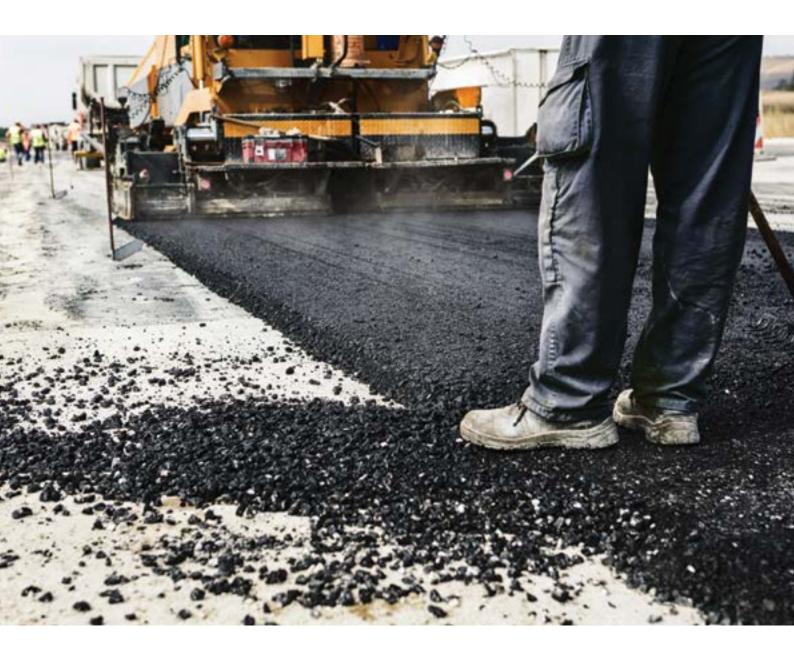
Supervisory Control and Data Acquisition (SCADA) System

We understand the importance of information. Getting clear, accurate data in a timely manner is critical to managing automated systems. A SCADA system designed and implemented will provide advanced visualization and data monitoring, from multiple systems and components and helps customers by:

- Providing greater visibility into their electrical distribution system
- Analyzing the data necessary to prioritize maintenance and identify inefficiencies
- Implementing energy conservation control strategies
- Alerting on potential equipment failures, electrical faults, and capacity overloads



CIVIL ENGINEERING & INFRASTRUCTURE



Civil Engineering & Infrastructure Works

Our Civil Engineering & Infrastructure team oversees the planning, designing and construction works for buildings projects as well as other related infrastructures. It also provides technical consultation services, project management services as well as operational and maintenance management services.

PLANT OPERATION & MAINTENANCE BUSINESS UNIT



Straits Technics Sdn. Bhd. (STSB) offers the best solution in the operation and maintenance in all types of installations; Refrigeration System, Water Treatment Facilities, Industrial Installations, and Electrical Distribution Plants. These Services are carried out with our alliance partner and STSB offers a wide range of services, from consulting to the provision of full operation and maintenance services.

STSB can improve process efficiency, reduce maintenance costs, energy consumption as well as dramatically extend the equipment life. Maintenance services can be performed on routine, preventive, predictive, scheduled and unscheduled actions and are aiming at preventive equipment failure or decline.

All maintenance services are focused on increasing efficiency, reliability and safety. STSB advanced management portfolio incorporates:

- i) Comprehensive asset management
- ii) Effective management system
- iii) Best- practice operational procedures
- iv) Preventive maintenance planning
- v) Detailed O&M report structures
- vi) Continuous improvement processes

STSB encourages close working relationship or formal alliances with its clients and actively encourages the sharing of management systems, operational techniques, resources and technologies.



GLOBAL TRADING BUSINESS UNIT



This business unit plays an important role to the Company's offering to potential clients who require the provision of equipment and part to be included in the contract. This division coordinates all trading services within the Company's engineering abilities.

Overall, this unit provides procurement and supply of wide range of products from a simple replacement order of maintenance material to a comprehensive package of Mechanical, Electrical, Instrumentation, Rotating Equipments, Line Pipes, Valves, Telecommunication Equipment / System, Safety & Protection Equipment, and Office Equipment Supplies for a complete project.

AWARDS & RECOGNITIONS

We are regularly recognized as leaders in the engineering industry. We also receive recognition and awards for our overall performance as a company and our patient advocacy. Here are some of our most recent achievements.



- Certificate of Appreciation for Outstanding Achievement in Mechanical & Electrical Maintenance 2006 (PLUS)
- Certificate of Appreciation for Outstanding 99.98 % Uptime Mechanical & Electrical Year 2007 (PLUS)
- Certificate of Appreciation for Outstanding Achievement in Mechanical & Electrical Maintenance 2008 (PLUS)
- Certificate of Appreciation as Vendor 2nd best for 2008 (TNB)
- Vendor Achievement Award 2008 System & Process Enhancement Category 2nd Runner Up (PROPEL)
- Certificate of Appreciation Award Chosen Strategic Partnership Penang Year 2014(TNB)
- Malaysian Construction Industry Excellence Awards (MCIEA) 2015
 Industry Development Board Malaysia (CIDB) for the project
 installation and testing of the lighting system along the Second Penang
 Bridge





LICENCES



















STRAITS TECHNICS













- 1. CIDB Grade 5 (B, CE, ME)
- 2. SPKK Grade 5 (B, CE, ME)
- 3. Suruhanjaya Tenaga Kelas A
- Sijil Kontraktor Kerja Taraf
 Bumiputera Gred 5
- 5. SPAN Permit IPA Jenis C2
- 6. SPAN Permit IPA Jenis D
- Kementerian Kewangan Malaysia
- Kementerian Kewangan
 Malaysia Taraf Bumiputera
- 9. SCORE SME CIDB (3 STARS)
- Petronas Mechanical & Electrical Series
- Tenaga Nasional Berhad Registered Contractor
- Tenaga Nasional Berhad
 Rakan Niaga Strategik
- Malaysia Airport Holdings
 Berhad Registered Contractor
- UEM Edgenta Property
 Berhad Registered Contractor
- 15. Felda Registered Contractor

PROJECT HIGHLIGHTS

Throughout the establishment of STSB, we have completed a lot of projects involving mechanical and electrical systems, these are several recent projects to be highlighted:-

- The Comprehensive maintenance of Mechanical and Electrical Works at Butterworth Kulim Expressway (BKE) for PROPEL
- The Comprehensive Maintenance of Air-Conditioning system Along Northern Region of The PLUS North South Expressway , Penang Bridge and Butterworth Kulim Expressway for PROPEL
- Design, Construction and Completion of the Second Penang Bridge . Package 2 : Supply, Delivery, Installation, Testing, Commissioning and Maintenance of Street Lighting
- The Comprehensive Maintenance of Mechanical of Electrical Works at Section N4 (Bandar Baru-Taiping) Along North South Expressway for PROPEL
- Cadangan Kontrak tahunan Kerja-kerja Pemasangan dan Pemasangan Lampu Jalan Awam, Lampu Taman dan Lampu Hiasan Serta Kerja-kerja Berkaitan Bagi Tempoh Dua (2)Tahun Bagi Kawasan Seberang Perai Tengah
- 6. Supply, Delivery, Installation, Testing and Commissioning of Street Lighting at Main Navigation Span for PROPEL
- Replacement of Air Conditioners (R22 Refrigerant with R410 Type) and Installation of Additional Air Conditioner (R410) at Northern Region
- 8. Service and maintenance of highway lighting system for Jambatan Sultan Abdul Halim Mu'adzam Shah
- Upgrading Works To Supply and Install Air Circuit Breaker 4 Pole 415 Volts at Low Voltage Main Switchboard Room and Genset Room at Penang Internantional Airport



- 10. Kerja-Kerja Membekal, Memasang, Memulatugas Dan Menyelenggara Sebanyak 3 Pusingan (4 Bulan Sekali) Selama Setahun Bagi Penghawa Dingin Berserta Aksesori Penghawa Dingin Di PMU/PPU/SSU Di Kawasan Seberang Perai, Bahagian Pembahagian, TNB Pulau Pinang
- Replace and Repair Air-conditioning system, parts and components within Three (3) Weeks and Carried out the service and Maintenacne works for two (2) times within four (4) months
- Service and maintenance of highway lighting system for Jambatan Sultan Abdul halim Mu'adzam Shah
- 13. Proposed Design, Supply, Installation, Testing And Commissioning Of One (1) Unit Of New

STRAITS TECHNICS



Standby Generator Set And Other Associated Works At Electrical Equipment Vault (Eev) Substation, Penang International Airport (Contract No: MASB/PCD/C/55/2016)

- Cadangan membina dan menyiapkan pencawang baru dan membekal transformer di Kompleks Perdana Universiti Teknologi MARA (Pulau Pinang) kampus Permatang Pauh CONTRACT NO :MASB/PCD/C/55/2016
- 15. Cadangan Kerja-Kerja Pendawaian Semula Sistem Elektrikal, Kerja-Kerja Pembekalan, Pemasangan & Pentauliahan Sistem Siaraya & Kerja - Kerja Berkaitan di Blok Pentadbiran, Blok Bangunan Hijau, Blok "E" Bangunan UNIKL, Surau, Dewan Selera Lelaki (Tingkat Atas) dan Perempuan di Kolej Mara Kulim (KMK)

- 16. The Comprehensive Maintenance of Air-Conditioning system Along Northern Region of The PLUS North South Expressway, Penang Bridge and Butterworth Kulim Expressway for PROPEL
- 17. Supply, Delivery, Testing & Commissioning Of Self Priming End Suction Pump Complete With Engine And All Related Accessories To Bahagian Perkhidmatan Dan Elektrikal, Jps Malaysia
 (CONTRACT NO: JPS/IP/MK/01/2016)
- 18. JAMBATAN SULTAN ABDUL HALIM MU'ADZAM SHAH

 Maintenance Service of Highway Lighting System and M&E Building Services for PB2X Toll Plaza and Bandar Cassia Toll Plaza

CLIENTS

As an organization, we embrace our responsibilities to our clients and the industries we serve. Everything we do is underpinned by our core values. These are the foundations which enable us to maintain our industrial strengths and deliver top-notch technical & after sales service.

Over the years, STSB has built up a strong base of clientele. In spite of our stable growth, the company retains a firm grasp of its identity and philosophy.





































VENDORS

We have built a good relationship with our vendors from various applications. Hence, we are ready to offer the best solutions in order to meet the clients requirements and expectations.













































Total Engineering Solutions

www.straitstechnics.com.my

STRAITS TECHNICS SDN. BHD. (82763-P)

(formerly known as Straits Electrical Sdn. Bhd.) No. 22A Lorong Perda Utama 6, Bandar Perda 14000, Bukit Mertajam, Pulau Pinang, Malaysia.

Tel : +604-5381213 Fax : +604-5381215

Email: straits@straitstechnics.com.my