



DYNAsegment Company Profile

April 2024

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Introduction

Dyna Segmen Sdn Bhd (Dyna) was incorporated in 2004 as an engineering services and equipment supplies company, with clients ranging from the Oil & Gas, Power, Water and Construction industries. Dyna, backed by the vast knowledge and experience of its management team, has grown to be a trustworthy company in providing solutions to clients. The company is ISO 9001 and ISO 45001 certified.

Drawing the Experience

The team in Dyna combines more than 100 years of experience in the various industries, with members serving the National Oil Company of PETRONAS, oil majors like ExxonMobil, global service provider leaders like Honeywell and local public listed companies. Among the key experiences are:

Oil & Gas and **Power** industries

Specialist in Fabrication, Hook-up and Commissioning, Operations & Maintenance for onshore & off-shore facilities

Turnaround and shutdowns; clients include PETRONAS, Shell, ExxonMobil.

Engineering Solutions.

Key Clients



Civil industry

Soil investigation and rectification works

Construction of steel structures and process skids.

Specialized in Polyurea & Polyurethane foam coatings. Construction of chiller tanks.

Slope mitigation works

Our Commitment

Engineering is more than just mechanical parts and automated processes. It is, to an extent, an art, which requires the human touch to weave awe-inspiring results.

Here at Dyna, we go the extra mile to personally ensure that our clients are happy with our products and services. Trust is built by delivering quality results in a timely manner. We value our businesses with our ever-growing list of clients, and are committed towards building long-term relationships.

Dyna has been a Dynamic company since 2004. We are at an exciting stage of the company, with exponential growth over the past few years. Whether you are our client, principal, staff or even intern, we welcome you to join us in striving for excellence.

Our Business Engineering

Civil & Structural

Dyna collaborates with local university professors in the field of earthwork and soil subsidence mitigation solutions. Specializing in the O&G industry, our clients include refineries and petrochemical plants, which have faced subsidence problems over the years of operations. The company also has experience in civil buildings, having worked with C&S Engineering firms for several O&G projects.



Mechanical & Piping

One of the challenges in onshore and offshore facilities is in deteriorating pipes and fittings. Dyna is involved in engineering solutions, having designed replacement piping systems and engineered online repair and inspection methods which have saved clients from downtime.

Dyna also works with M&E engineering firms for construction works within the O&G industry.

Electrical & Instrumentation

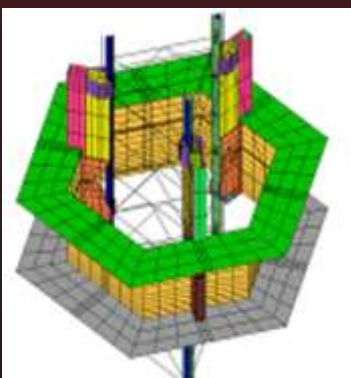
MOV's and HVAC's are some of the E&I systems which Dyna designs and engineers. Being the agents for specialized products such as valves, actuators, transmitters and gauges, Dyna works hand-in-hand with manufacturers to design E&I systems for clients.



Offshore

Dyna is involved in several proposed projects for clients in the region. The project entails naval and structural engineering, ranging from FPSO conversion to drilling rigs to MOPUs and FPU's.

Dyna also designs process skids for floaters.



Our Business

Construction

Dyna is a G7 (CIDB/ Class A SPKK) company, licensed to undertake Civil, M&E and Building contracts of unlimited values.

Dyna is involved in **construction of steel structures**, e.g. jackets and topsides for O&G platforms. Among the clients are SHELL and ExxonMobil. The team members were also entrusted to supervise the construction, commissioning, operation and decommissioning of Malaysia's first ever FPSO.



The company also does the **construction of buildings**. The most recent project is in the construction and insulation on a chiller tank for a new mall in Klang Valley. Apart from new construction, Dyna also does extensive renovation works.

Dyna is involved in **soil investigation and rectification** works. Among our clients are refineries and petrochemical plants.



The team also specializes in **slope mitigation** works. Malaysia, being a tropical country, gets a lot of rain which causes erosion and landslides on hills and slopes. Dyna works with Propel to design mitigation systems.



Protective coating is another area where DYNA is active. Water proofing of commercial buildings and anti-corrosion works (Corrosion Under Insulation Management, etc) are amongst our specialization.



Our Business

Construction

Platform Services

Passive Fire Protection

Dyna is committed to protecting your onshore and offshore oil & gas assets. The products have been developed because of the most rigorous requirements from the oil & gas industry in the world. Dyna represents 3 great brands—SIPA, FIRETEX and ISOLATEK



Architectural Works

We provide complete oil and gas topside architectural work services solution in Malaysia. Dyna Segmen offers a wide range supply of offshore architectural products including: medical offshore facility, , fire rated wall panel, ceiling, door & window, offshore accommodation custom made bunk, cabinet & rack, kitchen equipment, plumbing system and etc. with installation work.

Insulation

We provide thermal insulation solutions as per the specific requirements of our clients. With the help of our dedicated team, we have completed commendable job in the various projects.

We are able to cater for insulation for process and non process line as the high surface temperatures become a hazard to all working personnel. Thus having personnel protection will protect employees from accident burns and liability issues.



Deck Leveling

Water ponding on platform deck is a safety hazard to all personal working on deck. Our solution of light-weight epoxy screed provides a gradient to ensure water flows to the nearest drain with no water ponding on the deck.

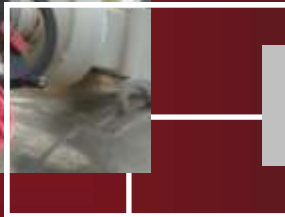
Our Business Procurement

Dyna has been procuring equipment, material, spares and consumables for O&G majors and Power Plants for the past 18 years. We procure and deliver thousands of items annually, ranging from structural to mechanical to E&I.

Electrical & Instrument

Scope of Procurement

Temperature Transmitters & Gauges
Pressure Transmitters & Gauges
Vibration Transmitters
Switch Controllers
Electric and Hydraulic Actuators
Flow Meters
Well Head Control Panels
Fire & Shutdown Systems/ Panels
Signal & Power Cables
HVAC



Mechanical

Scope of Procurement

Valves:
Gate, Ball, Choke, Check, Butterfly
Pipes, Elbows, Tees
Steel Plates & Bars
Flanges, Fittings, Saddles
Clamps, Supports, Nuts & Bolts
Engine/ Generator Parts



Our Business

Procurement

Our Partners



INTUMESCENT PASSIVE
FIRE PROTECTION



Our Business

Commissioning

The team in Dyna was responsible for the commissioning of the first FPSO in Malaysia, the Armada Perkasa. Dyna was also involved with the commissioning and decommissioning of the MOPU Rubicone (2011/2013). Apart from these offshore projects, there have been several onshore commissioning works including Tank Truck Loading facilities, and a new piping system at a Petrochemical Plant.

In collaboration, we are active in Hook-up and Commissioning works:

PMT personnel AND Offshore Construction personnel for Carigali-HESS HUC Brownfield Retrofit Projects
(EPIC Mushtari Engineering)(2012-2014)

PMT personnel for PCSB SKO Pipeline Rejuvenation
(Petra Resources)(2012-2013)

PMT personnel for Carigali-HESS HUC Brownfield Retrofit Projects
(EPIC Mushtari Engineering)(2009-2010)

Offshore Construction personnel for Carigali-HESS HUC Brownfield Retrofit Projects
(EPIC Mushtari Engineering)(2009-2010)

Supply of Electrical & Instrumentation Engineer
(Oilfab)(2008-2009)

Supply of Project Engineer
(Oilfab)(2008-2009)

Work pack Development works
(Oilfab)(2009-2010)

Engineering, Procurement, Construction, Load-out and Seafastening
for WHP Jackets and decks.

Pre Commissioning and Commissioning of Phase 1 works for Carigali PTTEPI Operating Company JDA B17 Field Development Project
EPCC of Four Wellhead Platforms (MDA, MDB, MDC, & JKA)
(Oilfab)(2007-2009)



Our Business Operations



The complete operations team, comprising of the OIM, Superintendent, Production and Maintenance Supervisors, operators and maintenance crew is done by Dyna Segmen Sdn Bhd. The daily production (crude and gas) is being run by Dyna's team. Apart from manning the control room, our staff are also responsible for site activities such as manual operations of valves, gauge readings, sampling, and other activities required for the safe operations of the offshore facilities.



One of the main challenges of offshore operations is the maintenance of the equipment on board. The major items are the compressors and generators, along with complicated process equipment such as the Glycol and Separator systems. Dyna runs a Computerized Maintenance Monitoring System (CMMS) on board, and ensures top-notch maintenance of the facilities. Apart from Rubicone, Dyna also services other facilities. The company has expertise in carrying out overhauls of main engines; every year, Dyna is called on board to service FPSO/ FSOs servicing offshore Malaysia/ Thailand.



Our Business

Inspection

Drone Inspection

Drones are high-tech aircraft that are remotely controlled. These devices are not only cost-effective, but they are strongly effective in their surveillance abilities. Our Drones can be equipped with various pieces of equipment such as daytime video recorders, low visibility surveillance video, live feed cameras, radar sensors, digital cameras, radio equipment, infrared cameras, sound recorders, laser scanners, thermal imaging and GPS equipment.



Our inspection capabilities through remote Aerial operated Vehicle (RAOV) often include but are not limited to:

- Offshore platform flare
- Road pavement inspection
- Slope inspection
- High rise building inspection

NDT Services

Non-Destructive Testing (NDT) is an analysis technique used in science and industry to evaluate the properties of a material, component or system without causing damage. As NDT does not permanently alter the article being inspected, it is a highly-valuable technique that can save both money and time in product evaluation, troubleshooting, and research.



List of NDT Services:

- Radiography Testing (RT)
- Magnetic Particle Inspection (MPI)
- Dye Penetrate Testing (DPT)
- Ultrasonic Flaw Detection (UT)
- Hardness Testing
- Vacuum Box Testing
- Welder Qualification Test (WQT)
- Welder Procedures Specification (WPS)
- Eddy Current (ET)
- Thickness Gauging & Corrosion Measurement
- IRIS, RFET
- Column Scanning Tank Floor Scanning
- Pipe Mill Shop Inspection
- Radiometric Inspection Technique
- Welding Inspection
- Stress Relieving (SR)
- NDT Supervision
- Surface Coating Assessment and Work scoping
- Pipe Coating Holiday Detection
- Blasting & Paint Coating Inspection
- Blasting & Painting Supervision
- Advanced Phonon Testing (Incorporating AET into RBI)

Our Business

Maintenance

Dyna Segmen is equipped with specialized equipment and managed by a team of competent & experienced personnel, we are able to provide full range of maintenance services.

Valve Servicing

We are a one-stop valve service on maintenance process from dismantling, overhaul and repair through to re-installation, commissioning and replacement.

We provide Valves Test, Repair and Calibration Service for All Type of Valves and Valve sizes

We carry out on-site and in-house valve servicing inclusive of re-conditioning, replacement of parts, testing & calibration as well as ensure continuous production with periodical & preventive valve maintenance and repair service.



Civil & Building

It is imperative that a building or facility undergoes proper maintenance to ensure the built environment performs the intended functions for which it was designed and constructed every organization is required by law to ensure its facilities are well-maintained, and the law is in place to protect the health and safety of the employees and occupants. Above all, your building is not only a piece of structure but also a financial Investment.

Refractory

With over 250k man hours of Refractory work in the Oil and Gas industry over the past 5 years, we have vast experience in this field. At Dyna Segmen, we know what is the most suitable industrial refractory to use at the most appropriate time as our key personals are API 936 certified. Qualities like this sets us ahead of other competitors.

Our abilities include turnaround, repairs/revamp for most types of furnaces, reactors, boilers, steam recovery unit, syngas equipment's, reformers, incinerators, stacks, kilns and other equipment requiring protection from heat.



E&I

Our offering in this area are IT infrastructure and network cabling, providing infrastructure engineering and installation for voice, data, video, and wireless communication in the Oil & Gas Industry.

Our Business

Maintenance

Thermal Insulation

Dyna Segmen pioneers high-performance industrial coatings, designed for a range of applications from superior abrasion, chemical and corrosion resistance to interior linings, seamless flooring and wall systems, and fluid-applied thermal insulation. This system is suitable for exterior and interior environments. This solution provides a lightweight approach compared to regular insulation



Blasting & Painting

We have a years of experience in the Surface Preparation and protective Coating of various substrates according to the Oil & Gas Industry and other Industrial Standards based on the project requirement and client specifications. Dyna Segmen has in house NACE coating inspectors as well as SSCP certified blasters and painters.

CUI Management

Making the right decisions to find the right solution is a complex process. With this in mind, preventing corrosion is a serious concern, which must be addressed in the design phase. Pipework and equipment must be designed properly to ensure supports and fittings are positioned to shed water as much as possible.

At Dyna Segmen, we have the right anti-corrosion surface treatment that we apply to pipework and equipment. We also provide routine checks as part of a robust maintenance plan.



Smart Coating Removal

We've also recently adopted smart coating removal technique (Heat Induction Coating Removal) which is significantly advantageous over traditional methods (blasting & etc.)



Our Business

Maintenance

Waterproofing

Dyna Segmen solution in waterproofing is Polyurea. Polyurea coating is a very quick set, premium, 100% solid coating / elastomer derived from a chemical reaction of an Isocyanate Pre-Polymer and Amine terminated resin blend. In Malaysia, Polyurea is the latest advance coating that has been used for the mega project around the world. It has excellent corrosion protection, low permeability, saltwater resistant, good outdoor weathering. The key feature is the almost immediate return to service time.



Grouting Works

Dyna Segmen has mastered the grouting services from onshore to offshore as well.

By the injection of pumpable materials into a soil or rock formation to change its physical characteristics.

It is one of the ways ground water can be controlled during civil engineering works. Dyna Segmen carries both cementitious as well as polyurethane grout to cater to all grouting need.



Lighting Protection

We have over 20 different models in our Lighting protection series to protect any electronic and electrical equipment from lightning surges on power system.

These devices offer surge capacity ranging from 25,000 to 320,000 amps per phase with common and differential protection modes. They can be used to protect instrumentation equipment, distribution boards, sub-switchboard, main switchboard, remote utilities and critical installation that require continuous protection.



Our Business

Maintenance

Pipeline Repair

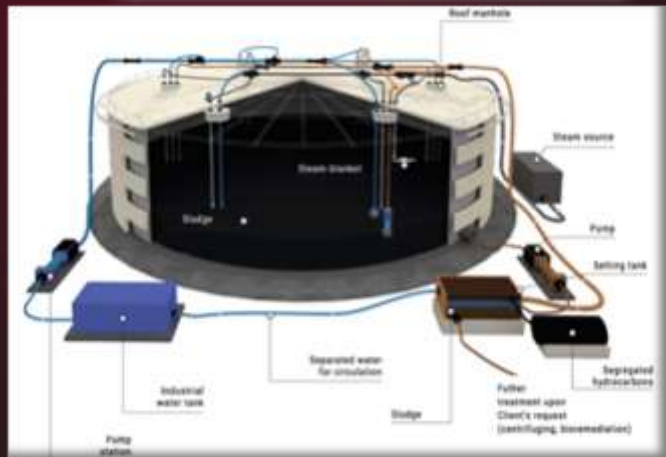


Dyna Segmen is exclusive agents to Citadel Technology, Diamond Wrap. Diamond Wrap is a system of bidirectional weave of carbon fibre and a 100% solids Epoxy. forming a composite system that is stronger than steel. Diamond Wrap is a Superior alternative to pipe clamps as it can cater for straights, elbows and Tee's as well. This solution is a Cold work approach hence it is done while the pipe is online. This approach rehabilitates the piping system to its Design Temperature and Pressure.



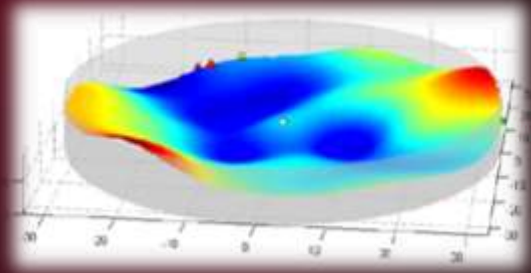
Tank Maintenance

Our Tank Maintenance technology is a non man entry tank management system. This solution has minimal tank cleaning time as well as maximum hydrocarbons recovery. With no emissions and chemical usage, this solution is proven to be faster and efficient as cleaning and hydrocarbon recovery is done simultaneously. We are able to recover 97% of hydrocarbons out of oily sludge. This technology can be used on damage tank with broken roof or damaged roof legs as well.



Pumps & Generator Service

We are well versed with the rotating equipment as well. We are able to carry our routine maintenance as well as major overhauls for engines, generators and pumps alike.



Our Business

Maintenance Fired Equipment



Process Burners

Refineries and Petrochemical plants have a variety of fired heater types. From years of experience in the Industry, our principal, Greens Combustion has developed the GreenBurn® range of burners to cover the majority of these applications.

Typical burner spares that we provide

- Burner windbox & damper assemblies
- Gas nozzles, tips, & jets + oil atomisers
- Complete gas gun, oil gun & poker assemblies
- Oil / water sprayer assemblies & parts
- Air intake filters & silencers
- Burner refractory tiles & modules
- Burner pilot / ignition systems & ancillaries
- Flame detection systems & ancillaries
- Actuated assemblies & components
- Fixings, fittings, gaskets, seals & hoses



Flares

Dyna Segmen together with Airoil Flaregas Pvt. Ltd. specialises in the design, manufacture, supply, installation & commissioning of high performance Flares and Combustion Equipment for refineries, petrochemical plants, fertilizers and other allied chemical industries. With almost thirty-five years of design & manufacturing expertise, coupled with excellent Project Management capabilities and customer relations, Airoil Flaregas today is a true leader in the combustion engineering industry.



Our aftermarket services include

- Refurbishments & repairs
- Site surveys & consultancy
- Upgrade kits
- Combustion advice



Our Business

Renewable Energy



On Grid Solar PV generates electricity from sunlight and is connected to the grid. Utilizing a Net Energy Metering (NEM) system, users are able to enjoy continuous electricity from solar generation and the utility company. Installed on residential and commercial properties.

Solar PV Integration and connection including power conversion (transformer, inverter, switchgear), electrical distribution, monitoring supervision and technical support. Kiosks with solar power, manufactured by Dyna for municipalities.



Solar PV System

Solar PV systems use sunlight to generate electricity by harnessing the photovoltaic effect. Semiconductors undergo this process which causes them to produce voltage and current when they are exposed to light.

Dyna Segmen is a Registered PV Service Provider (RPVSP) under Sustainable Energy Development Authority Malaysia (SEDA)



Off Grid or stand-alone systems are not connected to the grid and is typically for self consumption. E.g. Metering station for Air Selangor deployed by Dyna Segmen in 2023.

Biofuel Production

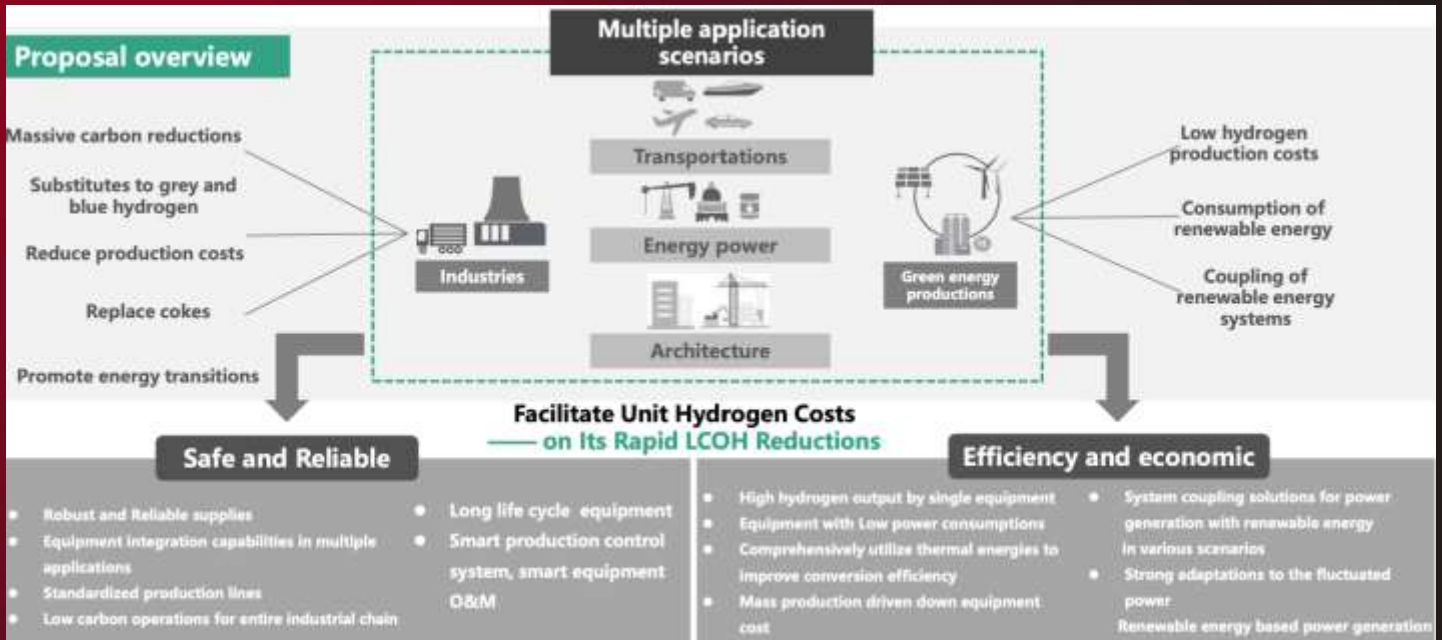
Malaysia is one of the leading producers and exporters of Palm Oil. A lot of waste is generated from the industry. Dyna Segmen, in collaboration with bac Renewable Energy, harvests up to 80% of palm oil mill waste and produce biofuel. Specific to Green Energy, we harvest hazardous Methane and convert it to renewable fuel or to Hydrogen for energy transportation.



Our Business

Renewable Energy

Green Hydrogen Production



Green hydrogen production from renewable energy (hydro, solar, wind, biomass) is able to overcome intermittent and storage problems. Hydrogen (and Ammonia) is transportable and becomes a tradable commodity. Dyna partners with Longi to promote the construction of Hydrogen plants worldwide.

in partnership



Waste Water Treatment



NR Chemicals has developed a technology to treat a wide range of waste water. Based on the concept of Electro Oxidation (EO), several

plants have been built with Dyna Segmen to help clients treat waste water. Amongst the clients we have served are Sime Darby for palm mill effluent waste and Indah Water Konsortium, for sewerage. Other wastes which are treatable are chemicals and solids (landfills).



in partnership



Our Team

Organization Structure



Key Management Team

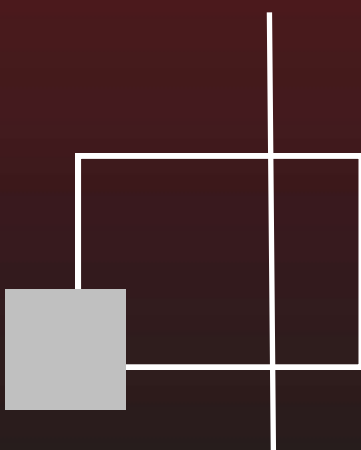
Faiz H. Hussin (Co-founder & Director)— A mechanical engineer graduate of Northeastern University Boston, USA, Faiz served PETRONAS (1997-2001), first as a shift supervisor at a petrochemical plant then as an oil trader. He headed Business Development at Bumi Armada Berhad before founding an O&G engineering company which was subsequently sold to a public listed company. Faiz brings a wealth of technical and entrepreneurial experience into Dyna Segmen and sets an energetic pace towards the growth and success of the company.

Nasrul Annuar — A Missouri, USA mechanical engineer graduate, Nasrul is a hands-on General Manager with more than 20 years of experience in offshore & onshore facilities. He has managed projects on PETRONAS, ExxonMobil and Shell platforms, as well as a multitude of onshore facilities. He is a qualified SSPC Level 2 Inspector.

Vinesh Puvanaendran — A Mechanical engineer graduate from Curtin University and registered with the Board of Engineers Malaysia (BEM). He has led projects of various scales both onshore and offshore. Presently, his primary role in the company is to lead and drive projects. He has also built a wide network in the industry and plays an important role in Business Development.

Mohd Rozihan — heads Finance and Accounts of the company. He has over 20 years of experience ranging from civil, construction, development to oil and gas. Prior to Dyna, he managed the accounts of a public listed oil and gas subsidiary. His prudent approach has helped Dyna maintain a zero gearing ratio with solid financial standings over the years.

Farahin — A Human Resource graduate from University Teknologi Malaysia, Farahin has been with Dyna for 7 years. She has helped grow and manage the resources in the company, and has played an important role in corporate affairs. She manages government relations and requirements from authorities and agencies.



The Company

General Info

Date of Incorporation

7 September 2004

Authorized Capital

RM 1,000,000

Paid-up Capital

RM 1,000,000

Registered Address

B-03-10, Gateway Corporate Suites,
1, Jalan Desa Kiara,
50480 Kuala Lumpur,
Malaysia.

Business Address

Lot C12A- 4th Floor,
Jalan Ampang Utama 1/1
68000 Ampang,
Selangor, Malaysia.

Telephone

+60 3 4256-4254

Fax

+60 3 4256-5254

Operations

Kerteh, Bintulu, Miri, Tronoh
Kazakhstan, Mozambique, Oman, Qatar

Directors

Faiz H. Hussin
Nasrul Annuar

Company Secretary

Normala Embi

Auditors

PS Yap & Co

Bankers

CIMB Bank Berhad,
Lot G35, Ground Level Suria KLCC,
50088 Kuala Lumpur, Malaysia.

Maybank Berhad,
2 Jalan Memanda 7, Ampang Point,
68000 Ampang, Selangor, Malaysia.

Bank Islam Berhad,
Jalan Raja Abdullah,
50250 Kuala Lumpur, Malaysia.

SME Bank Berhad,
Jalan Sultan Ismail,
50250 Kuala Lumpur, Malaysia.



Licenses & Registrations

ISO 9001:2015

ISO 45001:2018

PETRONAS

CIDB G7

SKPP

Ministry of Finance

Bumiputera Registration

TNB

Malakoff/Teknik Janakuasa

Suruhanjaya Tenaga

SEDA

SPAN

Air Selangor

Hyundai Engineering & Construction

Samsung Engineering

Qatar Petroleum

... Delivering Results



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