

A photograph of several large, cylindrical industrial storage tanks or silos made of corrugated metal. They are set against a backdrop of a bright sun setting behind a metal framework, casting a warm glow and creating lens flare effects. The tanks are arranged in a row, with some in the foreground and others receding into the background.

CORPORATE PROFILE

user@sun-power.com.my
www.sun-power.com.my



ABOUT US

Sunpower Resources (M) Sdn Bhd, is an associate company of integrated in Malaysia since 2013. was incorporated with main core business focus in asset care and , government sector, Oil & Gas Industry / plant maintenance services in mechanical, electrical, instrument, and civil disciplines.

Sunpower is currently owned and managed by a group of professionals who have vast exposure in government sector project and oil and gas industry. The management of Sunpower set out their enterprise doing what they know best, spurred on by the belief that there is a market niche for a private bumiputra company to excel in this industry by providing quality service through professional approach and total engineering solutions.

We offer a comprehensive portfolio of product and services that will be used by all leading companies under Government sector project and oil and gas division. Thus, we have been work as a vendor for Government Sector, Petroliam Nasional Berhad (PETRONAS), Shell Berhad, ExxonMobile, Carigali Hess, Carigali-PTTEPI Operating Company (CPOC), EPOMS, MISC, TOTAL, MHB Berhad, FPSO Venture, Lotte Titan Chemical, Petrofac Malaysia and others. Most important, we work alongside our stakeholders to ensure our customer engineering/services requirements and needs will consistently be met.

Sunpower is registered with Suruhanjaya Tenaga, Tenaga Nasional Berhad, CIDB, SIRIM, Pusat Khidmat Kontraktor Class A for Civil, Mechanical Works and Class III for Electrical Work as well as licensed with Petroliam Nasional Berhad (PETRONAS) and Ministry of Finance (MOF).

Safety is our top priority Sunpower Resources is one of the Malaysia's cost effective integrated government sector project and oil & gas services solution provider. The group's principal business include providing end-to-end solutions in Construction project and Downstream/ Upstream Petroleum/Petrochemical Industry, and covers activities such as Manpower Supply, Material Supply, Hook-up and Commissioning, Maintenance services, Engineering and Consultancy, project management, infrastructure and specialized fabrication work. The approach enables the group to provide and ensure consistency in quality of services, enhanced performance and client satisfaction.

With the level of experience of Sunpower management in oil and gas industry coupled with highly motivated staff that are well trained in various field of expertise, we believe Sunpower will be adding both technical and commercial values to clients every needs in the instrument, electrical and mechanical maintenance services.



OUR VISION

“To be the preferred provider of Upstream and Downstream support services to our clients. Our vision is to be the best professionally led, technically competent and most trusted service provider Company in the eyes of our customers and our empowered people.”

OUR MISSION

- To operate and deliver on our commitments to the satisfaction of our stakeholders, safely, on time and within budget.
- To add value by effectively managing risks through a hands-on approach.
- To continuously improve our capabilities and to apply the lessons learnt to the way we work.
- To ensure good governance in all our practices, reduce our environmental footprint, support our local communities and promote social sustainability awareness wherever we operate.



Sunpower Core Values are the basis for establishing a common culture for the company. Our Core Values are:

- **Accountability** — We are owners and treat every asset, project and investment as our own.
- **Excellence** — We strive for excellence in what we do and how we do it.
- **Teamwork** — We work effectively together; we can deliver results far beyond our individual.
- **Safety** — We are committed to create working conditions where we cause no harm to people.



Sunpower is one of the Malaysia's cost effective integrated oil and gas services and solutions provider. The Group's principal business include providing end-to-end solutions and services to the upstream petroleum industry, and covers activities such as manpower supply, machineries and equipment's rental, hook-up and commissioning, topside maintenance services, engineering and consultancy, project management, offshore support services, infrastructure and specialized steel fabrication works.

The Group is actively involved in integrated brown field services for the upstream and downstream O&G industry. In catering to this, the group provides a comprehensive range of support services either independently or collectively under a single point of responsibility and accountability'. The approach enables the Group to provide and ensure consistency in quality of services, enhanced performance and client satisfaction.

OUR CAPABILITY PROJECT

EPCC for Development project such as new project development, upgrading project, maintenance project and shutdown TA activity of construction and hook up commissioning project.

The Company has built up a strong capability to undertake electrical and instrumentation service projects for refineries, oil & gas terminals, power plants, petrochemical plants, airports, LPG bottling facilities and aviation fuel storage facilities.

Detailed Engineering Design

Over the last 13 years, we developed the capability in engineering design for E&I works. Our engineering team is able to provide Routing Drawings, Bill of Materials, Cable Schedules, Wiring Diagrams, Design and Installation and Maintenance of Fire Protection System, Design and installation and maintenance of Air Conditioning System and build Sewerage system. Equipment Data Sheets and any other engineering requirements for E&I works.

Procurement Services

Our procurement department comprise of experienced personnel providing services ranging from comprehensive qualification of vendors and materials, ITB preparation, evaluation and expediting shipping logistics to warehousing of materials.



Construction Capabilities

Our construction team is well versed in the areas involving:

- Power supply systems
- D.C.S. and control room systems
- Lighting systems
- Communications systems
- Field Instrumentation hook up
- Cable tray installations
- Cable trench installations and most other E&I installations.
- Installation and maintenance of High Voltage / Low Voltage Electrical Distribution System.
- Installation and maintenance of General Electrical and Instrument system in building
- inclusive of:
 - a) Instrumentation and Control and Distributed Control System
 - b) HV/LV Electrical System.
 - c) Generator Set / Electrical Motor / Pumping System
 - d) Telecommunication Installation and Testing.
 - e) P.A. / Sound Reinforcement System
 - f) CCTV / MATV System
 - g) PLC based controller, Process and monitoring system and Intercom System.
 - h) Street Lighting.
 - i) Fire & Gas detection alarm and shutdown system
 - j) Instrumentation packages system installation/commissioning
 - k) All type Valve installation and Commissioning
- Other Process, Mechanical and Electrical Design and installation.
- Maintenance for Mechanical and Electrical System for Sewerage Treatment Plant
- Plant Maintenance and Turnaround Services for upstream and Downstream plant.

Pre-Commissioning & Commissioning

Our E&I commissioning services include pre-commissioning inspection, loop checks, instrument calibration and validation, functional tests and system power up.

Project Management

Our Project Management team are experienced and trained in project planning and scheduling, project cost and schedule control, quality control, regulatory applications and construction management, including safety management, site supervision, subcontract coordination, craft supervision, schedule control, material control and field administration.



STRENGTH & ADVANTAGES

- Dedicated team engineers and technical personnel with extensive hands-on / field experiences.
- Our solutions are designed to simplify engineering work flow and provide better result in shorter time frame.
- Work force that strive in giving the best and foster lasting customer relationship.
- Efficient interfacing between the supplier and customer by good performance records, direct deals with principle suppliers and manufacturer.
- Our capabilities are the Management and Execution of maintenance, shutdown, modification, installation and commissioning services in Electrical, Telecoms, Instrumentation and Control Systems for the Oil & Gas on- shore and offshore, petrochemical and power plants.
- Experience and competent management team

HEALTH, SAFETY & ENVIRONMENT

Sunpower takes pride in its **Health, Safety & Environment (HSE)** record which has won it many prestigious awards and excellent recommendations from clients. Effort is taken to ensure the HSE mind-set is instilled in all its employees and In line with this, the company has established the following HSE objectives:

HSE OBJECTIVES:

- Promote Health Safety and Environment awareness to all staff, irrespective of their position in the company.
- Conduct training at regular intervals to keep them well informed and up to date.
- Strive to ensure all employees conduct themselves with Health Safety and Environment mind-set in carrying out all their responsibilities.
- Establish and maintain contingency procedures to minimize risks from known potential hazards and to improve the quality and safety of the working environment.
- Ensure all workers have the safety knowledge and awareness so as to enable them to recognize potential hazards that are not readily identified.

CORPORATE INFORMATION

Company Name	:	Sunpower Resources (M) Sdn Bhd
Head Office	:	No 31-1 Jalan Tiara 2C/KU1, Bandar Baru Klang 41150 Klang Selangor. Tel: 0333597044 Fax: 0333597044 Email: badrul@sun-power.com.my / sprsb64@gmail.com / user@sun-power.com.my Website: www.sun-power.com.my
Established	:	22 January 2009
Company Secretary	:	Harris Bakar Management Sdn Bhd Lot 03-32,3rd Floor, PKNS Complex 40000 Shah Alam Selangor. Tel: 03-55109408 Fax: 03-55198523
Auditor	:	TL & Associates 87b, Jalan SG 3/10,Pusat Bandar Sri Gombak 68100 Batu Caves, Selangor Tel: 03-61895735 Fax: 03-61896652
Business	:	Trading: Mechanical & Electrical Equipment Engineering Services: Installation and Maintenance of Civil, Mechanical & Electrical Engineering Services.
Director	:	Salsabella Haron Muhamad Nazrin Haron
Authorise Capital	:	RM500,000.00
PaidUp Capital	:	RM200,000.00
Bank	:	Cimb Bhd



CURRICULUM VITAE

Badrul Hisham, Md Noh

Chief Executive Officer/Shareholder

B. A (Hons) U.K.M MBA University of Stracyle

He was with TMB for ten years before setting up Aces Synergy Engineering Sdn Bhd. In TMB, he holds various management positions from marketing to procurement divisions. Among important task in TMB, he was a member in crisis management team that was given a mandate from Board to complete Menara Rebung within stipulated time as the building was two years behind schedule.

He was responsible in negotiating with various fire fighting principles abroad to get a distributorship right for Aces Synergy. He has gained confident from the principles and managed to get right to market their products in Malaysia. So far, he managed to get various fire suppression for land, marine, oil & gas from a reputable principles from U.S and Europe.

In 2002, he managed to secure Vendor/"Usahawan" status under entrepreneur development program for fighting system with TNB through AORA Sdn Bhd where he was a director. The aerosol fire suppression system, Dynamaco, from German was the chosen system. Under TNB's entrepreneur program, he set up a factory to assemble system components and accessories where he used 60% local contents. In 2013, he managed to have first local Under Writer laboratory (UL) accredited approval for fire suppression featuring HFC227ea gas under brand name, MAS227/1my227.

Muhamad Nazrin Haron

Operation Director

Diploma in Aeronautical Engineering, UNIKL

- To oversee the whole company performance to ensure it will move forward as per planning.
- Maintain strong relationships with key contacts in existing clients and develop new clients.
- Liaise between the technical team and clients, as well as senior management and stakeholders
- Identify market trends, gaps and niches
- Business prospecting and bidding
- Conduct client presentations and negotiations
- Provide quotes on major projects and manage account transitions
- Liaised with all departments to assist with sales, engineering, design and fabrication



CURRICULUM VITAE

Salsabella bt Haron

Director (Account and Administration).

B Ac in Accounting (UITM)

She has been with the company since 2014 who is responsible in company financial matters and administration. The initiative to know technical matters help her a lot in understanding and managing the company business efficiently. A graduate in accounting, she is responsible in preparing budget, preparing costing for tender, negotiation with supplier, bankers etc.

She is also responsible in company's procurement activities to ensure all procurement adhere best practices and standard. Apart from that she is manage company logistic and transportation matters where to ensure all goods received from suppliers within stipulated time and as per specifications. She also to ensure all goods delivers to customer within the time stipulated and in good condition.

Zaimi B Dollah

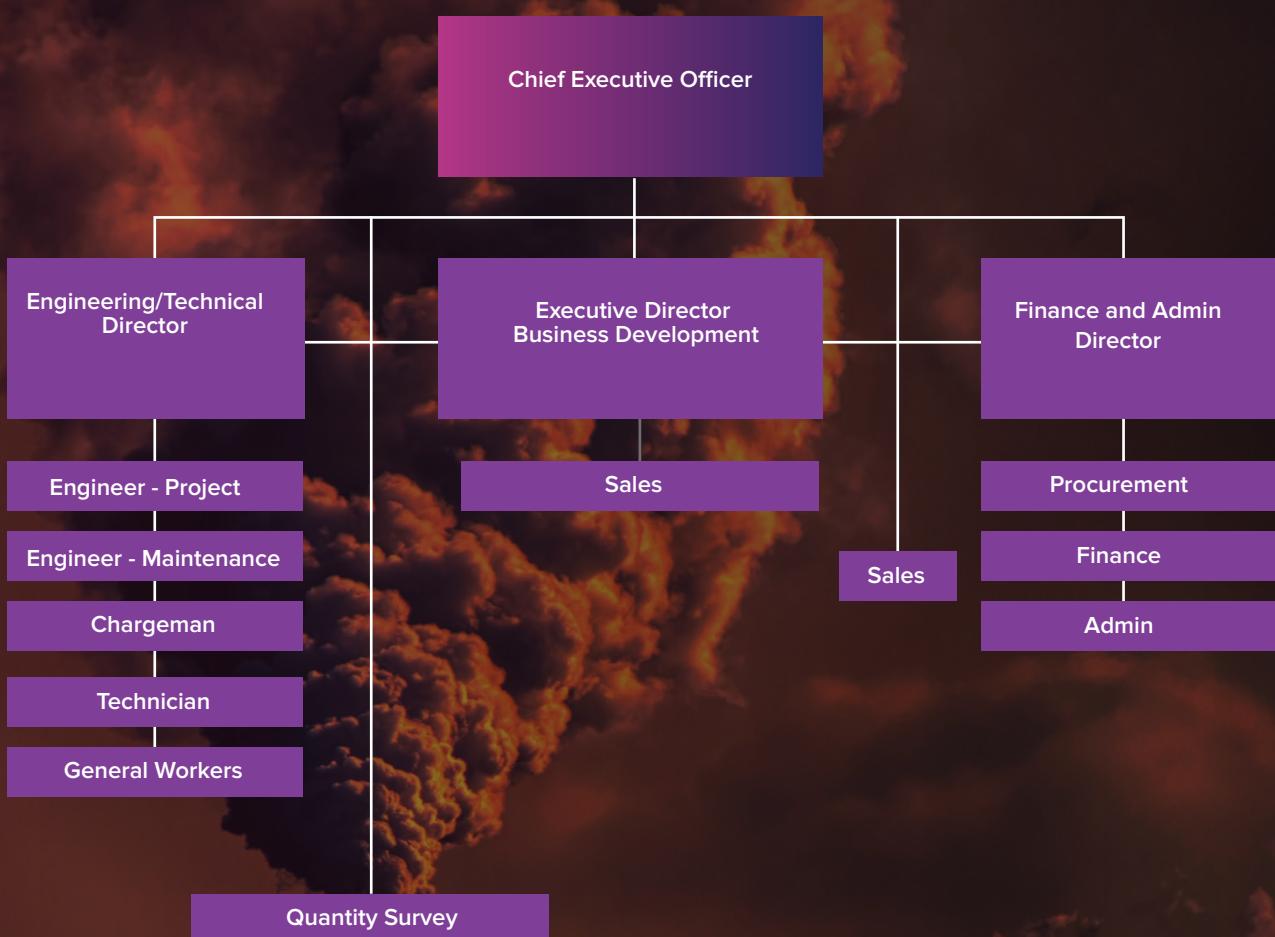
Senior Manager

Advance Diploma In Mechanical Engineering, UITM.

He has vast experience in all types and sizes in the following system:

- Fire extinguisher (portable & mobile, low pressure & high pressure), dry powder, Co2, Foam, water, halon (BTM 1301 & BCF 1211).
- Fire Hose Reel and Cabinet.
- Fire Hydrant (all types) and Fire Pump (all types and sizes).
- Sprinkler and Water Deluge System.
- Fire Alarm System (Analogue, Conventional and Addressable).
- Fire Detection.
- Foam, CO2, HFC227ea and Novec1230 Fire Suppression System.
- Generator.
- Pump system for all applications.
- Flame and Gas detection systems.
- To carry out periodic test program and maintenance operations to ensure reliability of the fire protection system in accordance with applicable standards (MS ISO 14520, NFPA 2001, NFPA 72, EN 54, EN 12094) code of practice for Clean Agent Fire Extinguishing Systems.
- To check each point and answer every question in a report after each routine maintenance operation and check with the owner representative corrective actions,
- rectifications and tests to be performed on the installation
- To carry out periodic maintenance on equipment installed to ensure it is in good working order.
- To produce reports on maintenance to be presented to owner for further action.
- To carry out visual periodic inspection to verify system is free from physical damages.

ORGANIZATION CHART





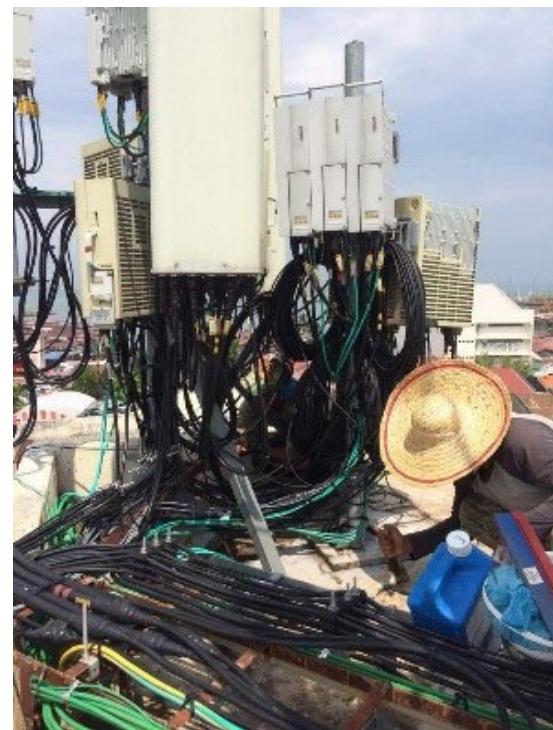
1.) Fire Protection Maintenance, PE-TNB Distribution, KL



2.) Repair Vertical Pump Maintenance-TNB HQ Jalan Kepong-TNB



3.) Minor Civil Beach Street



4.) Supply and Installed Orient227 Fire Suppression System - Sabah Port



5.) Underground Cable Laying Works 11/22/33 Kv



6.) Remote Control Unit Project (RCU) Upgrading TCOT Terminal Petronas Carigali



7.) Fire Suppression System Installation



REGISTRATION WITH STATUTORY BODY

CIDB



PERAKUAN PENDAFTARAN

Adalah dengan ini diperakui bahawa kontraktor yang dinyatakan di bawah ini telah berdaftar dengan Lembaga mengikut Bahagian VI Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994. Pendaftaran ini adalah tertakluk kepada syarat-syarat yang telah ditetapkan bersama perakuan ini.

No. Pendaftaran	:	0120170116-SL183933
Nama Kontraktor	:	SUNPOWER RESOURCES (M) SDN. BHD.
Alamat Berdaftar	:	NO. 201, BLOK 1, LAMAN SERI BUSINESS PARK, PERSIARAN SUKAN, SEKSYEN 13 40100 SHAH ALAM
Daerah	:	PETALING
Tarikh Mula Berdaftar	:	16/01/2017

<u>GRED</u>	<u>KATEGORI</u>	<u>PENGKHUSUSAN</u>
G4	B	B04
G4	CE	CE21
G4	ME	M02,M15

Tarikh Mula Berkuatkuasa : 14/11/2017
Tarikh Habis Tempoh Perakuan : 15/01/2020

STATUS: AKTIF

A handwritten signature in black ink, appearing to read 'J. Jil'.

Ketua Eksekutif
Lembaga Pembangunan Industri Pembinaan Malaysia
Tarikh: 14/11/2017



REGISTRATION WITH STATUTORY BODY

SPKK



SIJIL PEROLEHAN KERJA KERAJAAN

Adalah disahkan syarikat/Firma ini adalah berdaftar dengan Lembaga Pembangunan Industri Pembinaan Malaysia dan tertakluk kepada syarat-syarat termaktub bersama sijil ini.

No. Pendaftaran	:	0120170116-SL183933
Nama Kontraktor	:	SUNPOWER RESOURCES (M) SDN. BHD.
Alamat Berdaftar	:	NO. 201, BLOK 1, LAMAN SERI BUSINESS PARK, PERSIARAN SUKAN, SEKSYEN 13 40100 SELANGOR
Daerah	:	PETALING
Tarikh Mula Berdaftar	:	16/01/2017

<u>GRED</u>	<u>KATEGORI</u>	
G4	B	(Pembinaan Bangunan)
G4	CE	(Pembinaan Kejuruteraan Awam)
G4	ME	(Mekanikal dan Elektrikal)

<u>PEGAWAI SYARIKAT YANG DITAULIAHKAN</u>	<u>NO. K/P</u>
YASMIN HARON	970115015534
SASALBELLA BT HARON	910930105654
SALSABELLA BINTI HARON	910930105654
MUHAMMAD NAZRIN BIN HARON	930823105251

Tarikh Mula Berkuatkuasa : 16/11/2017

Tarikh Habis Tempoh Perakuan : 15/01/2020

A handwritten signature in black ink, appearing to read 'HARON' or a similar name.

Ketua Eksekutif

Lembaga Pembangunan Industri Pembinaan Malaysia

Tarikh: 16/11/2017



REGISTRATION WITH STATUTORY BODY

KEMENTERIAN KEWANGAN



KEMENTERIAN KEWANGAN MALAYSIA

SIJIL AKUAN PENDAFTARAN SYARIKAT

NO. SIJIL	:	K65931152231978247
NO. RUJUKAN PENDAFTARAN	:	357-02212333
TEMPOH SAH LAKU	:	21/09/2017 - 25/09/2020

Bahawa dengan ini diperakui syarikat :

SUNPOWER RESOURCES (M) SDN BHD (845144-X)
NO 31-1 JALAN TIARA 2C/KU1
BANDAR BARU KLANG
PETALING
41150 SHAH ALAM
SELANGOR, MALAYSIA

Telah berdaftar dengan Kementerian Kewangan Malaysia dalam bidang bekalan/perkhidmatan di bawah sektor, bidang dan sub-bidang seperti di Lampiran A. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Lampiran B. Individu yang diberi kuasa oleh syarikat bagi urusan perolehan Kerajaan adalah seperti berikut :

SALSABELLA BINTI HARON	910930105654	DIRECTOR
MUHAMMAD NAZRIN BIN HARON	930823105251	DIRECTOR
BADRUL HISHAM BIN MD NOH	640518016337	C.E.O

t.t

DATO' OTHMAN BIN SEMAIL
Perbendaharaan Malaysia Semenanjung
b.p. Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 21/09/2017

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

REGISTRATION WITH STATUTORY BODY

KEMENTERIAN KEWANGAN-TARAF BUMIPUTERA



KEMENTERIAN KEWANGAN MALAYSIA

SIJIL AKUAN PENDAFTARAN SYARIKAT BUMIPUTERA

NO. SIJIL : BP65931152231978247

NO. RUJUKAN PENDAFTARAN : 357-02212333

TEMPOH SAH LAKU : 04/06/2018 - 25/09/2020

Bahawa dengan ini diperakui syarikat :

SUNPOWER RESOURCES (M) SDN BHD (845144-X)
NO 31-1 JALAN TIARA 2C/KU1
BANDAR BARU KLANG
PETALING
41150 SHAH ALAM
SELANGOR, MALAYSIA

Telah diiktiraf sebagai Syarikat Bumiputera oleh Kementerian Kewangan Malaysia. Taraf Bumiputera bukannya hak dan boleh ditarik balik sekiranya syarikat gagal mematuhi syarat/kriteria yang ditetapkan. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Sijil Akuan Pendaftaran Syarikat Bumiputera (Lampiran C).

t.t

DATO' OTHMAN BIN SEMAIL

Perbendaharaan Malaysia Semenanjung
b.p. Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia :

21/09/2017

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

CERTIFICATE

BOMBA

No. Fail: JBPM/IP/BKK:700-7/2/22-80 (18)
(PEMBAHARUAN: KELAPAN)

SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia
dengan ini memperakankan
Fire and Rescue Department of Malaysia
hereby certify



FIRE SUPPRESSION SYSTEM

Berdasarkan Piawaian
Complying with

NFPA 2001: 2008 & UL 2166



Syarikat Berdaftar
Registered company

SUN POWER RESOURCES SDN BHD (845144-X)
9-1, 1ST Floor, Jalan Suria X U5-X,
Pinggiran Subang Seksyen U5,
40150 Shah Alam,
Selangor Darul Ehsan.

Tempoh sah perakuan: 26/05/2018 hingga 25/05/2019

(PKPjB HARON BIN HJ TAHIR)
Bahagian Keselamatan Kebakaran,
b.p. Ketua Pengarah
Jabatan Bomba dan Penyelamat Malaysia.

Tarikh: 22 Februari 2018

** Peringatan:

Sila patuhi sepenuhnya syarat-syarat dan had kegunaan
seperti dalam Lampiran A1

DISTRIBUTOR
HFC227EA/ORIENT227





NOVEC/ORIENT5112



Orient Corporation Pte Ltd

29 Loyang Drive, Singapore 508944
Phone: (+65) 6543 0070 Fax: (+65) 6543 9949
Email: corporate@orientcorporation.com Web: www.orientcorporation.com

This is to certify that

Sunpower Resources (M) Sdn. Bhd.

is an Authorized Distributor of

**Orient 5112 & Inert Gas Clean Agent
Fire Suppression Systems**

in

Malaysia

With effect from 1st September 2016
Expires on 31st August 2018 unless renew

*All terms and conditions of this appointment under separate cover letter.





CO2



Orient Corporation Pte Ltd
29 Loring Street, Singapore 363004
Phone: +65 6541-3070 / Fax: +65 6541-9845
e-mail: [www.orientcorporation.com](mailto:orientcorporation.com)

**CARBON DIOXIDE
RELIABLE. EFFECTIVE.
PROVEN QUALITY.**

www.orientcorporation.com

Carbon Dioxide
Carbon Dioxide (CO2) is an effective fire suppression agent applicable to a wide range of fire hazards. Since Carbon Dioxide is a gas, it does not leave behind water, foam or dry chemicals that can damage your sensitive property. These clean agent fire suppression systems take advantage of the extremely high density of carbon dioxide to quickly and effectively suppress fire. These systems are completely safe and can be found in today's industrial plants, commercial facilities and even aboard ships.

Carbon Dioxide as a Fire Suppression Agent
The advantages of Carbon Dioxide gas for fire extinguishing purposes have been long known. As early as 1914, the Bell Telephone Company of Pennsylvania installed a number of seven pound capacity portable CO2 extinguishers for use on electrical wiring and equipment. By the 1920's, automatic systems utilizing carbon dioxide were available. In 1928, work on the NFPA Standard for carbon dioxide extinguishing systems was begun.

Orient Carbon Dioxide systems use intelligent, reliable, and fast acting controls to quickly sense a fire before it can cause costly damage to your property. Carbon Dioxide gas has a high rate of expansion which allows it to work fast. When applied to a fire, CO2 provides a heavy blanket of gas that reduces the oxygen level to a point where combustion cannot occur. Since carbon dioxide is a gas, there is no clean-up associated with a system discharge — which means minimal business interruption.

Total Flooding and Local Application Systems
Both CO2 systems consist of a fixed supply of carbon dioxide connected to a piping network for agent distribution. A total flooding system quickly extinguishes both surface and deep seated fire hazards by discharging the agent into an enclosed volume. A local application system is used when the hazard is more enclosed. Local application systems protect a two- or three-dimensional hazard by discharging the carbon dioxide directly on the burning material.

Features

- Proven quality and reliability with the Orient brand.
- Tested and approved all of Orient's various detection and control options.
- An inexpensive and easy-to-access agent when refill is necessary.
- Wide ranges of proven safe, hazard protection.

Typical Applications of Carbon Dioxide

• Flammable liquid storage	• Quench tanks
• Transformers	• Mixing operations
• Rotating electrical equipments	• Spray booths
• Power generation	• Turbine driven generators
• Metal processing facilities	• Electrical areas
• Printing industries	• Dust collectors
• Paint mix	• Engine rooms
• Machining facilities	



www.orientcorporation.com

INERT GASES SYSTEM

Orient Corporation Pte Ltd
29 Loyang Drive, Singapore 508944
Phone: (+65) 6543 0070 | Fax: (+65) 6543 9949
email: sales@orientcorporation.com
website: www.orientcorporation.com

NERT GAS
RESIDUE FREE

IG-100
IG-541
IG-55

Inert Gas

Orient Inert Gas (IG) Fire Extinguishing System consists of high pressure cylinders filled with either IG-55, IG-100 or IG-541 agent under pressure, connected to fixed piping and nozzles or hoses which is designed in accordance to the National Fire Protection Association (NFPA) 2001: Standard on Clean Agent Fire Extinguishing System and EN 15004: Fire Fighting System.

Seamless steel cylinders manufactured in accordance to the following specifications:

- Pressurized equipment directive 97/23/CE (CE Marking)
- Transportable pressurized equipment directive (TPED) 1993/6/CE (m Marking)

Cylinders used for the inert gas system have the design pressure of 2,900 psi (200 bar) and 4,351 psi (300 bar) with the test pressure of 6,526 psi (450 bar). Each cylinder is equipped with valve containing a safety burst disc for protection against over pressurization due to elevated temperature.



Inert Gas 541 (IG-541)

Orient IG-541 is composed of 40% Argon, 52% Nitrogen and 8% of CO₂. Orient IG-541 suppression systems are based on the principle of reducing the oxygen concentration inside the protected hazard. The oxygen concentration is minimized by the application of IG-541 until it reaches a level where combustion is no longer supported. Each system is designed so as to decrease oxygen to a specific level. When discharged, Orient IG-541 is quickly and uniformly distributed within the enclosure, achieving design concentration in 60 seconds.



Inert Gas 100 (IG-100)

Orient IG-100 is made up of 100% of Nitrogen. This inert gas are naturally present in the atmosphere, therefore its green-house effect is nil and its ozone layer depletion potential is zero. It is chemically inert, non-conductive, colourless, odourless and flavoursless. Orient IG-100 is non-corrosive and may be used at normal temperatures with such materials as nickel, steel, stainless steel, copper, brass, bronze and plastics.



This is a blend of 50% Argon & 50% Blend of Nitrogen. The fire suppression gas is blended to offer better buoyancy for the fire suppression agent keeping the fire suppression gas at higher levels in the protected enclosure for longer.

This type of fire suppression is considered a green option and does have many advantages used in the right application.



Environmentally Friendly

- Zero Ozone Depletion for maximum environmental friendliness
- Superior design allows for convenient long pipe runs
- Constant flow rate reduces hazardous pressure peaks
- Globally approved
- USGBC LEED® Recognized



www.orientcorporationig.com

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
1	Profision of fiber optic cable installation and commission for Power Substation MS100 project at Terengganu Crude oil Terminal (TCOT) Petronas Carigali S/B	2019	PETRONAS CARIGALI / TRANSWATER API S/B	275,000
2	Pressure Reliefe Valve (PSV) replacement project at Petronas Gas Berhad Santong (GPS)-Alexis Project	2019	PETRONAS GAS BERHAD (GPS) /TOYO ENGINEERING S/B	415,000
3	Mechanical, Electrical and Instrumentation of PSP1 & PSP2 Project Upgrading at VENATOR Teluk Kalong Terminal.	2019	JACOBS / SINBERY COORPORATION S/B	960,000
4	Provision of Street Lighting Upgrading at Petronas Compressor Kuantan (PGB)	2018	PETRONAS GAS/ ELECTRO SERVE S/B	390,000
5	To supply and installed Orient227 fire Suppression system for project Ibu Pejabat Polis Nilai.	2018	MAL MACH ENTERPRISE	65,763.00
6	To supply and installed Orient227 fire Suppression system for project UPM	2018	KEJURUTERAAN BINAJAYA	70,540.00
7	Provision of Outdoor Speaker (PAGA) maintenance at Oil Sluge Catcher (OSC) at Petronas Carigali Terminal	2018	PETRONAS CARIGALI / RITES SND BHD	222,000
8	Orifice Plate replacement at Bekok C at Petronas Carigali Platform - TA Project	2018	PETRONAS CARIGALI / TRANSWATER API S/B	109,000
9	To supply and installed Orient227 fire Suppression system for project sw room and tx room	2018	PROTECH INTERGRATED ENGINEERING SDN BHD	44,739.00
10	Provision of Combustable Gas Detector for Point type and Open Path replacement with cable laying at Tiong A Platform	2018	PETRONAS CARIGALI / TRISYSTEM S/B	388,000
11	To supply and installed Orient227 fire Suppression system for project UDA Kangar	2018	ARENA HAKIKAT SDN BHD	25,000.00
12	To supply Orient227 fire	2018	UNIQUE FIRE INDUSTRY SDN BHD	73,735.20

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
13	Provision of Combustable Gas Detector for Point type and Open Path replacement with cable laying at Tiong A Platform	2018	PETRONAS CARIGALI / TRISYSTEM S/B	119,000
14	DP Level Transmitter Replacement for Test Seperator Packages at Bekok C Platform Petronas Carigali	2018	PETRONAS CARIGALI / ENDRESS HAUSER S/B	97,000
15	Provision of Admin/Office Room Upgrading at Institut Petronas Training (INSTEP) Batu Rakit	2018	INSTEP PETRONAS	507,000
16	To supply and installed Orient227 fire Suppression system for bilik perkakas suis dan Bilik kawalan	2018	GASECO SDN BHD	131,532.80
17	Membekal dan memasang alat ganti Espa Vertical	2018	TENAGA NASIONAL BERHAD	27,510.00
18	Supply and install cut out fuse complete with fuse base and carrier - 100A	2018	CELCOM NETWORKS SDN BHD	1,363.16
19	Supply labour, material and install water proofing in preventing further water leakage for type:- Tar water proofing, Supply and install and lay asphalt sheet and Cement concrete as specified in foundations 32mm	2018	ACES SYNERGY ENGINEERING SDN BHD/ CELCOM NETWORKS SDN BHD	2,355.00
20	Supply and install air conditioning for split until system c/w filter dryer, sight glass, refrigerants, piping, brackets insulation, condensate piping and opening through wall as specified. (York/Acson) - 1.5 HP	2018	ACES SYNERGY ENGINEERING SDN BHD/ CELCOM NETWORKS SDN BHD	3,910.00
21	Proposed Cme Works For T3 Phase 3 Majunusa Recovery Project-Kg Merua	2018	ACES SYNERGY ENGINEERING SDN BHD/ CELCOM NETWORKS SDN BHD	17,637.50
22	Proposed Cme Works For T3 Phase 3 Majunusa Recovery Project- Kg.Sg.Bil	2018	ACES SYNERGY ENGINEERING SDN BHD/ CELCOM NETWORKS SDN BHD	12,754.50

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
23	Proposed Cme Works For T3 Phase 3 Majunusa Recovery Project-Kg.Pdg. Berliku	2018	ACES SYNERGY ENGINEERING SDN BHD/ CELCOM NETWORKS SDN BHD	13,415.50
24	Proposed Cme Works For T3 Phase 3 Majunusa Recovery Project- Kg.Sg. Perah	2018	ACES SYNERGY ENGINEERING SDN BHD/ CELCOM NETWORKS SDN BHD	12,511.50
25	Street Lighting Cable Replacement at Onshore Gas Terminal (OGT) Petronas Carigali	2017	PETRONAS CARIGALI / TRANSWATER API S/B	298,000
26	12 Unit Electrical Distributian Board (DB) Replacement at Petronas Ammonia (Supply and Commissioning)	2017	PETRONAS CARIGALI / ELECTRO SERVE S/B	880,000
27	Fussible Plug Loop Upgrading at Oil Sluge Catcher (OSC) at Petronas Carigali Terminal	2017	PETRONAS CARIGALI / RHS ENGINEERING S/B	500,800
28	Fire and Gas cable Replacement at Oil Sluge Catcher (OSC) at Petronas Carigali Terminal	2017	PETRONAS CARIGALI / RHS ENGINEERING S/B	137,000
29	To supply and installed Orient227 fire Suppression system for project Pencawang Elektrik Lycee Francais Kuala Lumpur.	2017	UNIQUE FIRE INDUSTRY SDN BHD	34,686.91
30	To supply and installed Orient227 fire Suppression system for project Pencawang Elektrik Subang Boulevard	2017	GASECO SDN BHD	27,200.00
31	To supply and installed Orient227 fire Suppression system for project Sunway Bintang	2017	UNIQUE FIRE INDUSTRY SDN BHD	27,150.40
32	Provision of 3 Unit Pedestal-Jetty Crane Upgrading at Kuantan Port Terminal.	2017	KUANTAN PORT BERHAD / PARAS SAKSAMA S/B	1,120,000
33	Tubing Replacement Project at Petronas Ammonia	2017	PETRONAS AMMONIA / RHS ENGINEERING S/B	88,000

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
34	To supply and installed Orient227 fire Suppression system for project Office - Meridian Eng	2017	UNIQUE FIRE INDUSTRY SDN BHD	6,522.29
35	To supply and installed Orient227 fire Suppression system for project Cabin – Esteem International	2017	UNIQUE FIRE INDUSTRY SDN BHD	13,608.12
36	To supply and installed Orient227 fire Suppression system for project Server Room – Muzium Negara KL	2017	UNIQUE FIRE INDUSTRY SDN BHD	7,408.36
37	To supply and installed Orient227 fire Suppression system for project CSC Steel, Ayer Keroh, Melaka	2017	UNIQUE FIRE INDUSTRY SDN BHD	82,507.61
38	To supply and installed Orient227 fire Suppression system for project Meridian Eng	2017	ORIENT CORPORATION PTE LTD	7,357.00
39	To supply and installed Orient227 fire Suppression system for project Fibertex L98	2017	UNIQUE FIRE INDUSTRY SDN BHD	8,750.30
40	To supply and installed Orient227 fire Suppression system for project Simas D	2017	UNIQUE FIRE INDUSTRY SDN BHD	32,824.51
41	Provision of supply manpower and material for Mechanical, Electrical & Instrument project under Reliability Maintenance Project at BASF Petronas Terminal.	2017	BASF PETRONAS / INDAH RAYA SDN BHD	1,600,000.00
42	Manpower Supply for Pressure Temperatutre and Level Transmitter Calibration at Eastmern Chemical Terminal	2017	EASTMENT CHEMICAL / INDAH RAYA SDN BHD	303,000
43	9 Unit of Transfomer servicing and Maintenance Project at Lynas Terminal Gebeng	2017	LYNAS COORPORATION / INDAH RAYA SDN BHD	270,000
44	To supply and installed Orient227 fire Suppression system for project Bumi Raya, Kuala Lumpur	2017	UNIQUE FIRE INDUSTRY SDN BHD	5,972.17

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
45	To supply and installed Orient227 fire Suppression system for project Econsave Pasir Puteh, Kelantan	2017	UNIQUE FIRE INDUSTRY SDN BHD	24,685.97
46	To supply and installed Orient227 fire Suppression system for project Infra Rancak	2017	UNIQUE FIRE INDUSTRY SDN BHD	21,084.09
47	To supply and installed Orient227 fire Suppression system for project Southern Lion, Johor To supply and installed Orient227 fire Suppression system for project Southern Lion, Johor	2017	UNIQUE FIRE INDUSTRY SDN BHD	8,397.27
48	To supply and installed Orient227 fire Suppression system for project Toray Plastics	2017	UNIQUE FIRE INDUSTRY SDN BHD	58,596.63
49	To supply and installed Orient227 fire Suppression system for project NXP Project Semi Conductor	2017	UNIQUE FIRE INDUSTRY SDN BHD	10,282.50
50	To supply and installed Orient227 fire Suppression system for project Kolej Mara, Banting	2017	UNIQUE FIRE INDUSTRY SDN BHD	11,558.40
51	To supply and installed Orient227 fire Suppression system for project Kerry, Penang	2017	UNIQUE FIRE INDUSTRY SDN BHD	6,556.88
52	To supply and installed Orient227 fire Suppression system for project Darul Iman Training Centre	2017	UNIQUE FIRE INDUSTRY SDN BHD	10,529.20
53	To supply and installed Orient227 fire Suppression system for project Pelabuhan Klang	2017	UNIQUE FIRE INDUSTRY SDN BHD	10,000.00
54	To supply and installed Orient227 fire Suppression system for project Infra Rancak	2017	UNIQUE FIRE INDUSTRY SDN BHD	21,084.09
55	To supply and installed Orient227 fire Suppression system for project Southern Lion, Johor	2017	UNIQUE FIRE INDUSTRY SDN BHD	8,397.27

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
56	To supply and installed Orient227 fire Suppression system for project Bilik AHU Hospital Machang	2017	UNIQUE FIRE INDUSTRY SDN BHD	6,763.45
57	To supply and installed Orient227 fire Suppression system for project PPU Great Eastern	2017	GASECO SDN BHD	130,000.00
58	Provision of 12 Unit Shut Down Valve - SDV Overhaul,Replacement at BASF Petronas Terminal	2017	BASF PETRONAS / MATRIX MAINTENANCE SDN BHD	470,000
59	Provision of 7 Unit Shut Down Valve - SDV Overhaul,Replacement at Petronas Gas Kertih (GPK Terminal)	2017	PETRONAS GAS / MATRIX MAINTENANCE SDN BHD	219,000
60	EPCC of Beacon Lighting Upgrading Project at Bekok Alpha at Petronas Carigali Platform	2017	PETRONAS CARIGALI / EMPAYER DAMAI S/B	779,000
61	EPCC of Beacon Lighting Upgrading Project at Bekok Bravo at Petronas Carigali Platform	2017	PETRONAS CARIGALI / EMPAYER DAMAI S/B	487,000
62	Provision of Sand Probe Installation of Flow Line at Tangga Barat Platform Petronas Carigali	2017	PETRONAS CARIGALI / BUMIWAGSA TMS S/B	98,000
63	Provision of Sand Probe and High Low Pilot Installation and Commissioning of Flow Line at Bekok C Platform Petronas Carigali	2017	PETRONAS CARIGALI / BUMIWAGSA TMS S/B	290,000
64	Provision of Sand Probe and High Low Pilot Installation and Commissioning of Flow Line at Dulang A Platform Petronas Carigali	2017	PETRONAS CARIGALI / BUMIWAGSA TMS S/B	119,456
65	Provision of Sand Probe Installation of Flow Line at Bekok A Platform Petronas Carigali	2017	PETRONAS CARIGALI / BUMIWAGSA TMS S/B	79,000
66	To supply and installed Orient227 fire Suppression system for project Medini Development	2017	SPECIAL HAZARDS PROTECTION SDN BHD	USD46339.8

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
67	To supply and installed Orient227 fire Suppression system for project LeForm	2017	SPECIAL HAZARDS PROTECTION SDN BHD	USD2,810.40
68	To supply and installed Orient227 fire Suppression system for project Menara Pristage (Revised)	2017	UNIQUE FIRE INDUSTRY SDN BHD	26,018.30
69	To supply and installed Orient227 fire Suppression system for project Real Education	2017	UNIQUE FIRE INDUSTRY SDN BHD	57,835.07
70	To supply and installed Orient227 fire Suppression system for project Pioneer Haven (2nd Batch)	2017	UNIQUE FIRE INDUSTRY SDN BHD	383,086.29
71	To supply and installed Orient227 fire Suppression system for project Pencawang Elektrik Taman Supreme No 2	2017	UNIQUE FIRE INDUSTRY SDN BHD	21164.25
72	To supply and installed Orient227 fire Suppression system for project Pencawang Elektrik Taman Connaught No 6	2017	UNIQUE FIRE INDUSTRY SDN BHD	21,426.91
73	To supply and installed Orient227 fire Suppression system for project Pencawang Elektrik Chin Hin Toy	2017	UNIQUE FIRE INDUSTRY SDN BHD	22,803.76
74	To supply and installed Orient227 fire Suppression system for project Daihatsu	2017	UNIQUE FIRE INDUSTRY SDN BHD	10,467.01
75	To supply and installed Orient227 fire Suppression system for project Daiman Golf Club	2017	UNIQUE FIRE INDUSTRY SDN BHD	25,139.01
76	To supply and installed Orient227 fire Suppression system for project PPU Kawala	2017	GASECO SDN BHD	97,261.89
77	To supply and installed Orient227 fire Suppression system for project PPU Pulai Perdana	2017	GASECO SDN BHD	89,892.00

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
78	To supply and installed Orient227 fire Suppression system for project Sarawak Shell Berhad, Miri	2017	UNIQUE FIRE INDUSTRY SDN BHD	62,905.70
79.	To supply and installed Orient227 fire Suppression system for project SSP, MRT, Pandan Perdana	2017	UNIQUE FIRE INDUSTRY SDN BHD	66,684.10
80	To supply and installed Orient227 fire Suppression system for project Kota Kinabalu, Sabah	2017	UNIQUE FIRE INDUSTRY SDN BHD	88,030.82
81	To supply and installed Orient227 fire Suppression system for project SSU Kementah	2017	GASECO SDN BHD	20,500.00
82	To supply and installed Orient227 fire Suppression system for project PPU Bangsar	2017	GASECO SDN BHD	92,856.00
83	To supply and installed Orient227 fire Suppression system for project Tampoi, Johor	2017	GASECO SDN BHD	78,383.00
84	To supply and installed Orient227 fire Suppression system for project PPU Sales Gallery @ Taman Seputeh	2017	UNIQUE FIRE INDUSTRY SDN BHD	145,341.38
85	To supply and installed Orient227 fire Suppression system for Bulk Order	2017	UNIQUE FIRE INDUSTRY SDN BHD	1,076,405.37
86	To supply and installed Orient227 fire Suppression system for project Taman Maluri	2017	SMF ENGINEERING SDN BHD	32,000.00
87	To supply and installed Orient227 fire Suppression system for project Sabah Port	2017	LEGASI TANGKAS SDN BHD	120,000.00
88	To supply and installed Orient227 fire Suppression system for project Jabatan Audit Negara	2017	HUB TECHNOLOGIES (M) SDN BHD	11,034.38
89	To supply and installed Orient227 fire Suppression system for project Kementerian Dalam Negeri	2017	HUB TECHNOLOGIES (M) SDN BHD	40,893.31

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
90	To supply and installed Orient227 fire Suppression system for project Kementerian Kesihatan Malaysia	2017	HUB TECHNOLOGIES (M) SDN BHD	9,254.13
91	To supply and installed Orient227 fire Suppression system for project	2017	PROTECH INTERGRATED ENGINEERING SDN. BHD.	28,500.00
92	To supply and installed Orient227 fire Suppression system for 2nd Bulk Order	2017	UNIQUE FIRE INDUSTRY SDN BHD	246,533.29
93	To supply and installed Orient227 fire Suppression system for project Two; Spa-Bilik Ict, Spa-Bilik Kebal, Umt-Bilik Kebal	2017	ORIENT CORPORATION PTE LTD	USD4,853.90
94	To supply and installed Orient227 fire Suppression system for project TM	2017	MAJAPAHEAT ENGINEERING	389,442.00
95	To supply and installed Orient227 fire Suppression system for Bulk Order 4	2017	UNIQUE FIRE INDUSTRY SDN BHD	324,721.12
96	To supply and installed Orient227 fire Suppression system for project Sistem Pencegah Kebakaran Dan Pam Penggalak Untuk Cadangan Klinik Kesihatan Jenis 3 Nilai, Negeri Sembilan (One-Off) Fasa 2: Klinik Kesihatan Fasa 3 Dan Kerja Lain	2017	MTSB CONSTRUCTION & SERVICES	66,780.00
97	Supply Manpower and cossumable for TA - Shutdown at Petronas Gas Kertih (GPK) Terminal	2016	PETRONAS GAS BERHAD / HIGH BASE SDN BHD	570,000
98	Supply Manpower and cossumable for TA - Shutdown at Petronas Gas Santong (GPS) Terminal	2016	PETRONAS GAS BERHAD / HIGH BASE SDN BHD	223,000
99	Supply Manpower and Scaffolding for Vassel Cleaning Project at TCOT Terminal Petronas Carigali.	2016	PETRONAS CARIGALI / HIGH BASE SDN BHD	936,500

PROJECT EXPERIENCE

No.	Project Description	Year	Project Client	Project Value
100	Provision of Distribution Board Replacement at Onshore Gas Terminal Petronas Carigali	2016	PETRONAS CARIGALI / RHS ENGINEERING SDN BHD	890,000
101	Primary cable street Lighting Replacement (Underground Cable) at Oil Sluge Catcher (OSC) Terminal Petronas Carigali	2015	PETRONAS CARIGALI / RHS ENGINEERING SDN BHD	650,000
102	Provision Construction and Commissioning of Remote Control Unit/ RCU and Fire & Gas Upgrading Project at TCOT Terminal Petronas Carigali	2015	PETRONAS CARIGALI / SEDIA TEGUH SDN BHD	772,000
103	Provision Construction and Commissioning of Fire and Gas Upgrading Project at OSC Terminal Petronas Carigali	2015	PETRONAS CARIGALI / SEDIA TEGUH SDN BHD	384,800
104	Supply Manpower, Construction and Commissioning for Valve Replacement / Overhaul at Petronas Penapisan (PPT) Terminal and Matrix Maintenance Yard at Jakar Kemaman	2014	PETRONAS CARIGALI / MATRIX MAINTENANCE SDN BHD	495,000
105	Provision of Chemical Injection Packages (CMTS) Upgrading at Petronas Gas Berhad (GPK) Phase 1	2013	PETRONAS CARIGALI / TRANSWATER API S/B	778,450
106	Provision of Chemical Injection Packages (CMTS) Upgrading at Petronas Gas Berhad (GPK) and 4 Unit Marshalling Cabinet Replacement - Phase 2	2013	PETRONAS CARIGALI / TRANSWATER API S/B	1,700,000



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