



ZAR GROUP
OF COMPANIES



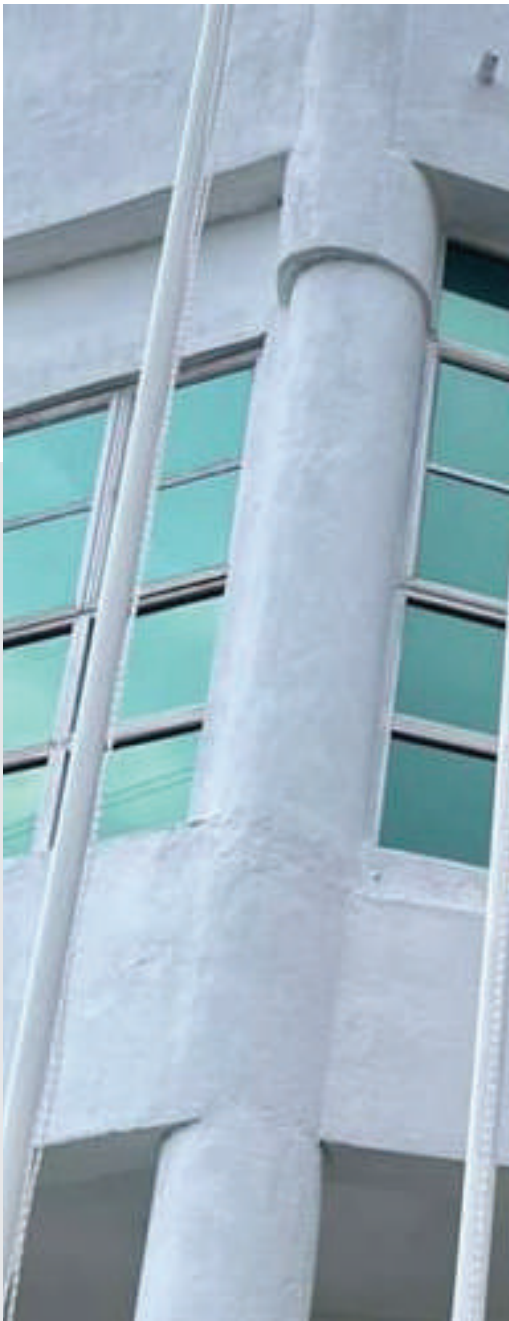
ZARLYNX COMPANY PROFILE

A Malaysian oil and gas service company
since 2014 providing various solutions

ZAR GROUP 2025

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Our
Locations





INTRODUCTION

ZAR was established in 2014 with the vision to provide the best engineering solutions and professional talents to various industries in Malaysia. Managed by personnel well experienced in engineering, construction, talent management, sourcing and various other industries.

ZAR strives to provide reliable and quality services utilising local and international resources to meet and excel client's expectations.

ZAR innovative products and in-house services capabilities, supported by local and foreign strategic partners further enhance our strenght, quality and price.

About Our Companies



ZAR LYNX ENGINEERING

Specialising in oil and gas, marine, power, petrochemical, water and wastewater, and general industries. With a commitment to innovation and sustainability, we deliver tailored engineering solutions that enhance operational efficiency and safety.



ZAR CONSULTANCY HUMAN RESOURCE SERVICES

Specialising in HR Outsourcing Services, Corporate Management services, Payroll services, Executive search, Retainers, Training, Statutory & Labour Laws Act, HR Audir and many more.



ZAR N PINES FOOD & PLANTATIONS

A comprehensive food supply chain company dedicated to delivering quality products from plantations to consumers. We manage every stage of the process from cultivation and processing to distribution ensuring freshness and sustainability.



Our Vision

To be the preferred service provider by our clients



Our Mission

Prospering through quality & reliability that meet or exceed client expectations

Director's Profile



DATO' ASPALELA RAMLY

Aspalela Ramly is the co-founder of ZAR Consultancy Services and ZAR Lynx Sdn Bhd, having previously served as Chief Human Resource Officer at Big Group Sdn Bhd. She has held senior HR roles at several MNCs and GLCs in Malaysia.

Aspalela began her career at Sime Hyundai Wood Industries in 1996 and later became HR Manager at MRCB, where she led key HR projects, including the implementation of a compensation and benefits scheme and managing C&B for operations in Dubai. After 8 years at MRCB, she joined Pharmaniaga Group as Head of Reward & Recognition, where she revamped their compensation programs and led projects such as HRIS, Global Mobility Policy, and Payroll systems.

She has extensive experience in Compensation & Benefits, Rewards & Recognition, Industrial Relations, Organizational Development, and Recruitment. Aspalela was also an Industrial Relations Employer Panel Member for the IR Court of Malaysia and Ministry of Human Resources from 2013 to 2015.



ZULIZMAN ABDUL RAHMAN

Zulizman graduated with a Diploma in Marine Engineering from Ungku Omar Polytechnic. He began his career in 1995 as a Marine Engineer at PETRONAS Tankers, specializing in LNG carriers. In 1998, he joined Malaysia Shipyard and Engineering (now MMHE) as an Estimator, handling cost and schedule estimates for ship repairs.

In 2000, he moved to Honeywell Engineering as a Business Development Executive for DCS systems in the marine and Oil & Gas sectors. He later joined Sapura Holdings in 2002 as Chief Engineer on a yacht, before transitioning to Sapura Energy in 2005, where he led two subsidiaries managing service agreements for clients like Petronas and Shell.

Zulizman co-founded MOGBiss Sdn Bhd in 2012 and ZAR Lynx Sdn Bhd in 2014.



Our Team



CHIEF EXECUTIVE OFFICER
MOHAMMAD FITRI MISTAR



CHIEF OPERATION OFFICER
MOHAMMAD SHAUFIQ SHOOIID



HOD GROUP BUSINESS SUPPORT
JOEY WONG



ACCOUNTS MANAGER
ROSINITA JAAFAR



HOD BUSINESS DEVELOPMENT
AIMAN ZAFRI ZULIZMAN



HUMAN RESOURCE MANAGER
MOHAMMAD AHZAM

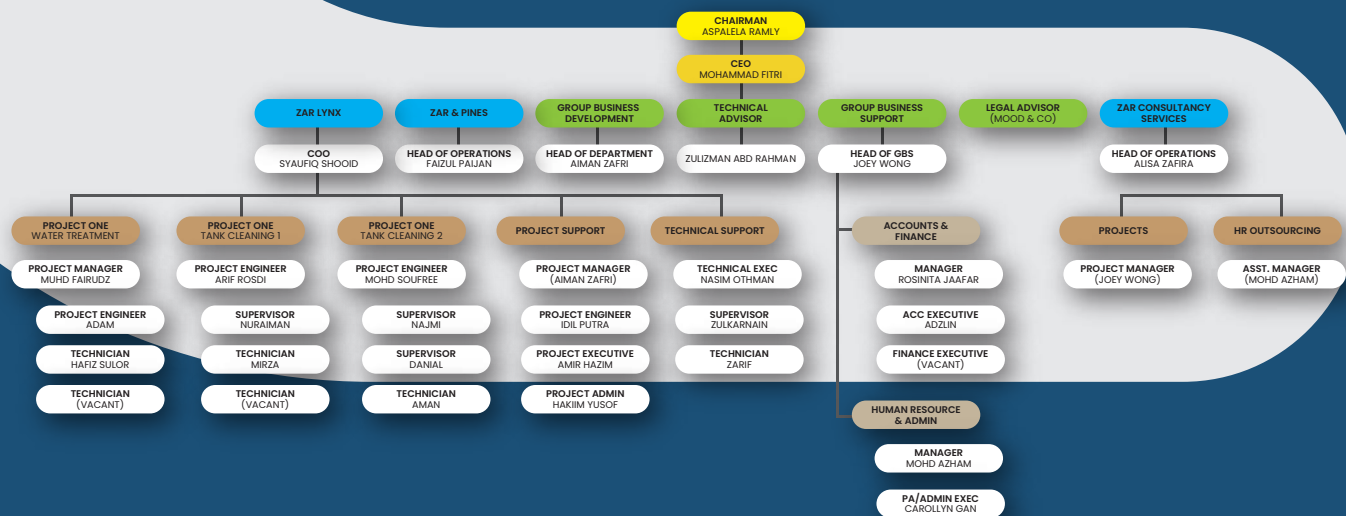


PROJECT MANAGER
MUHAMMAD FAIRUDZ



PROJECT MANAGER
ALISA ZAFIRA

Organization chart





ZAR LYNX
ENGINEERING

PRODUCTS & SERVICES



Authorised Agent & Distributor



YOUR WATER,
OUR SOLUTION





SV30



SV60V



SV110V



SV250V



SV510V



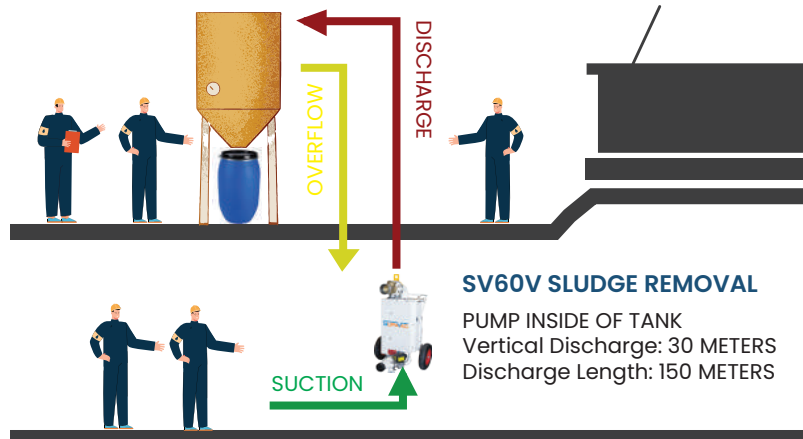
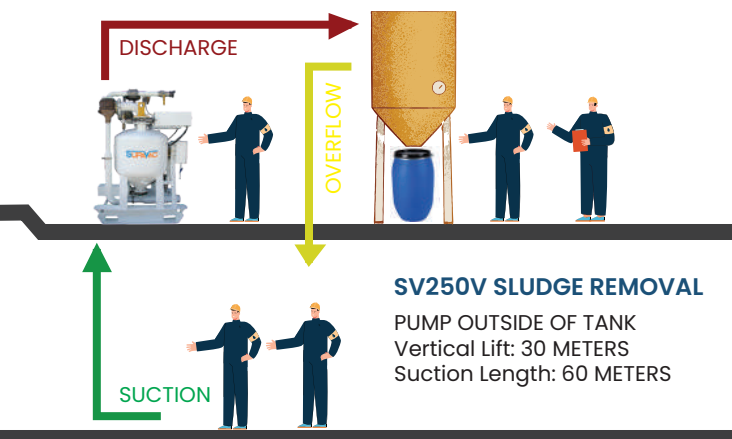
What is SupaVac?

SupaVac pumps are 100% air-powered, intrinsically safe penumatic conveying solutions, capable of transferring solid sizes up to 70% of the inlet diameter. A unique patented Venturi design creates a strong vacuum and high airflow to recover material up to 50 meters and discharge up to 1000 meters

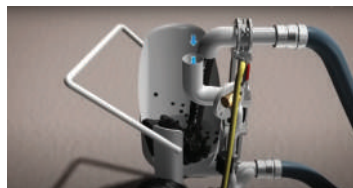
Capable of pumping:

<i>Liquids</i>	<i>Slurries</i>	<i>Gravel</i>
<i>Liquors</i>	<i>Sand</i>	
<i>Mud</i>	<i>Slimes</i>	<i>Powder</i>

Anything flowable!

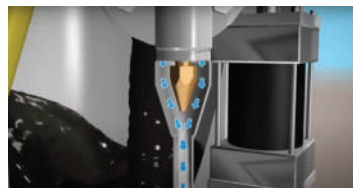


How It Works



Suction Mode

1. Suction Valve open
2. Discharge Valve closed
3. Jetpack Outlet Valve open
4. Compressed air Inlet Valve open

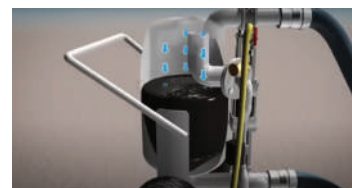


****Vacuum created in the vessel from jetpack venturi effect and slurry/solids material enters through the pump inlet.**



Discharge Mode

1. Suction Valve closed
2. Discharge Valve open
3. Jetpack Outlet Valve closed
4. Compressed air Inlet Valve open



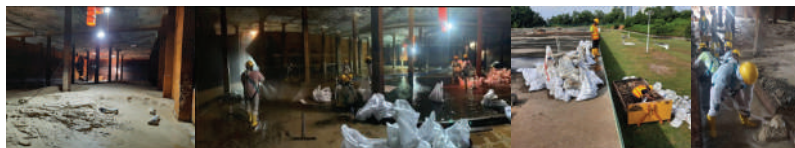
****Compressed air introduced into the vessel to push the material out of the vessel through the pump outlet**

TANK CLEANING

SUPAVAC PUMPS REPLACING MANUAL TANK CLEANING METHODS AT WATER TREATMENT PLANT

Problem Statement

The project initially employed manual tank cleaning method, which proved to be labor-intensive and time-consuming, resulting in inefficiencies and numerous operational drawbacks. These challenges, including extended cleaning time and the associated high labor costs, ultimately led to the job being left unfinished. The previous 2 contractor was unable to complete the cleaning process due to these limitations. Consequently, there is a pressing need to address the inadequacies of the manual method and identify a more effective solution to ensure timely and thorough completion of the tank cleaning project. The goal is to find an alternative approach that overcomes the limitations of the previous method and allows for the successful and efficient completion of the tank cleaning task.

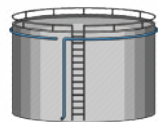


Problem Solution

Supavac pumps provide a highly efficient alternative to manual tank cleaning methods. Unlike manual approaches that are labor-intensive, time-consuming, and fraught with safety hazards, Supavac pumps streamline the cleaning process through advanced technology. This innovative solution significantly reduces the amount of labor required, cut cleaning time, and minimizes operational downtime. Additionally, Supavac pumps enhance safety by reducing manual handling and exposure to hazardous conditions. By adopting Supavac pumps, organizations can achieve substantial cost savings, improve safety, and expedite tank cleaning operations, leading to more efficient and reliable project outcomes.

Job Scope

Cleaning inside a water storage tank at a municipal water treatment plant to remove an estimate of 140 tonnes of mud and sand. The dimension of the tank is 44.8M x 57.5 M x 6M. The project duration is quoted and expected to be done in 2 weeks time.



15,500m³

TANK



140 Tonnes

MUD

Manual Tank Cleaning

Time-Consuming:

Manual cleaning is labor-intensive and often takes a considerable amount of time, leading to increased downtime for the tank

Labor-Intensive:

The process requires significant manpower, which can strain resources, especially in industries with a limited workforce

Safety Risks:

Workers face various safety hazards, including exposure to harmful chemicals, the risk of burns from hot water & etc

Project completion after 2 weeks

10%

Manpower used



Supavac Tank Cleaning

Efficiency:

Supavac pumps can significantly reduce cleaning time and labor costs compared to traditional methods

Safety:

Fewer personnel are required on-site, reducing the risk of accidents in confined spaces.

Versatility:

The pumps can handle a wide range of materials, making them suitable for various tank cleaning applications.

Project completion after 2 weeks

100%

Manpower used



SUPAVAC SV250V MINING SLIMES SYSTEM

Features

- 100% Compressed Air Operated
- Intrinsically Safe
- Manually or Fully Automatic
- High Vacuum & High Airflow
- Throughput Capacity up to and in excess of 30 m³/hr (132USGPM)
- Variable Air Consumption 150-750CFM
- Robust & Compact
- Gravity Feed Capability
- Roll Cage & Weather Cover (Optional)

Technical Specs

- 165CM (H) X 129CM (W) X 120CM (L)
- 1680KG Weight
- Suction 100mm (4")
- Discharge 100mm (4")
- Handles solid to 75mm (3")
- Air consumption 150-270-400-600-750CFM at 85psi to 100psi
- Up to 25"Hg+ (85kPa) vacuum
- Also available in Class 3 carbon, 316 Stainless steel or polyurethane coated tanks.

The SV250-V Mobile Sludge Pump is designed to transfer an extremely wide array of heavy sludges via 100mm suction and discharge lines.

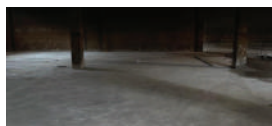
The SV250-V has the ability to operate with various SX Jet Packs ranging from 150 to 750cfm depending on the operator's requirements.

The SV250-V Mobile Sludge Pump is a vacuum loading pressure discharge batch system that can recover flowable slurries from up to 50 metres (164ft) and deliver the same in excess of 1000 metres (3280ft) whilst remaining a one man or fully automatic operation.

The SV250-V Mobile Sludge Pump can transfer in excess of 30 m³/hr @SG1.0 (132USGPM) depending on the required duty.

Methodology

SUPAVAC TANK CLEANING



Equipment Setup

Mud Pumping

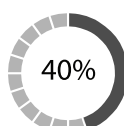
Tank Cleaning

Collecting Station

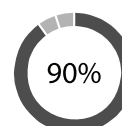
Mud Storage prior disposal

Result, Analysis & Conclusion

The Supavac tank cleaning method offers a superior solution compared to traditional manual tank cleaning techniques. Unlike manual methods, which are labor-intensive, time-consuming, and fraught with safety risks, Supavac pumps provide a more efficient and streamlined approach. It significantly reduce labor requirements, shorten cleaning times, and minimize operational downtime, leading to cost savings and enhanced productivity. Additionally, Supavac pumps improve safety by reducing the need for manual handling and exposure to hazardous conditions. Given these advantages, the manual tank cleaning method is increasingly seen as obsolete, unable to compete with the efficiency, safety, and effectiveness of modern Supavac technology.



LESS MAN POWER



MORE EFFICIENT

UNIQUE SOLUTIONS FOR DIVERSE INDUSTRIES

solutions that meet unique requirements of a wide range of industries.

With our customized and consultative approach, we offer water treatment

Oil & Gas

- ▶ Seawater / brackish water RO Systems for potable applications
- ▶ Sewage / effluent treatment
- ▶ Blowdown recycle & reuse
- ▶ Produced water
- ▶ Drinking water
- ▶ Low sulfate water applications
- ▶ Oily water treatment plant
- ▶ Frac water applications
- ▶ Sanitary applications and utilities



Manufacturing Units and Other Industries

- ▶ Boiler blow down recycling systems
- ▶ Sewage / effluent treatment
- ▶ Process applications
- ▶ Drinking water systems
- ▶ Sterilization units
- ▶ High quality / ultrapure water





Advanced Watertek is a leading supplier of high quality, bespoke skid-mounted and containerised water treatment solutions for brackish and seawater. Our experts work closely with clients to understand critical project parameters such as contaminants to be removed, water throughput, serviceability requirements and space restrictions prior to design and manufacture.

Filtration Systems

Filtration can effectively remove suspended solids from the feed water. Some of the common filtration types are

- ▶ Multi-media Filtration
- ▶ Ultrafiltration
- ▶ Nano Filtration
- ▶ Activated Carbon Filtration

These units are used as pre-treatment in Reverse Osmosis systems or stand alone for filtration of ground water.



Disinfection Systems

After an RO or filtration process, an added stage of disinfection may be required to eliminate the remaining bacteria, parasites, or viruses.

The most common methods of disinfection are chlorine dosing and Ultraviolet (UV) treatment or ozonisation.

Disinfection systems are typically installed on potable water systems to ensure the water is safe for human consumption.





Ultra-pure Water

Ultrapure Water is water treated to an exacting level of purity. Industries and commercial establishments such as F&B, manufacturing units, medical laboratories and pharmaceutical plants are mandated to use high-quality water that conforms to industry norms and standards for testing and other applications. We design and build robust and high quality ultra-pure water treatment systems using Demineralization or Electro Deionization technologies.



SANILEC®

Seawater electrochlorination systems providing effective disinfection with capacities from .05 to 45.4 kg/h per train.

For more than 35 years, De Nora Water Technologies has offered seawater electrochlorination systems to economically and safely produce a powerful biocide and disinfecting agent for marine, offshore and industrial applications. De Nora Water Technologies is the world leader in the supply of equipment for seawater



electrochlorination with more than 400 installations in 60 countries, producing more than 1.3 million kilograms per day of sodium hypochlorite from seawater and representing more than 65% percent of the world capacity for this type of technology.

The SANILEC® and SEACLOR seawater electrochlorination systems use a simple and straight forward electrochlorination process, combining two common consumables (seawater and electricity) to generate a disinfecting agent. Seawater electrochlorination eliminates the storage, handling and purchase of hazardous chemicals.



SANILEC® Features & Benefits

SANILEC systems are the standard and preferred electrochlorination system for biofouling control in offshore and marine biofouling control as well as power and coastal applications. SANILEC systems range in capacity from 2.8 to 47,620 lb/day (1.2 to 21,600 kg/day), per train. Higher capacity can be achieved by adding trains.

Superior Design

- Optimum cell design — not too big or too small
- Minimal operation and maintenance requirements
- Once-through flow design eliminating recycle requirements
- Use of corrosion-resistant materials of construction
- Customized layout and supply to meet site-specific requirements
- Guaranteed lowest power consumption

Safety

- Low-strength sodium hypochlorite solution is non-hazardous, safe and easy to handle
- Systems designed for low voltage requirements: Less than 50 volts DC
- Automatic operation eliminating the potential for operator error
- Designed for hazardous areas, i.e. ATEX, IEC Ex, Class Div 2, if required
- Safe hydrogen removal process

Reliability

- Active life of the DSA anode is guaranteed
- Anodes can be recoated
- Long operating life with minimal downtime
- Control system ensures proper and safe operation
- Eliminates dependence on chemical suppliers

Service

- Installation and construction consultation available
- Experienced service staff for start-up and commissioning
- Maintenance and service agreements available
- Single source for supply of spare parts
- Training services available
- Pre-project consultation available for budgetary capital estimates, project feasibility studies, equipment selection and specification and proposal evaluation

SANILEC® Applications

SANILEC systems take full advantage of our knowledge and experience in the design of offshore skid-mounted units, with strenuous area classification requirements. These systems generate sodium hypochlorite from seawater using an extensively field-proven electrochemical process suited for biofouling control in water flood, cooling water and fire water loops. SANILEC systems are also designed for industrial power and coastal biofouling control applications.

Fire Water Systems

For Use on Pump Caisson and Loop Antifouling

Biofouling, when mussels and algae restrict the intake to firewater and jockey pumps, must be considered by offshore facilities using seawater for their firewater systems so that these restrictions in flow do not compromise the performance of the vital safety equipment. De Nora Water Technologies offers skid-mounted systems that provide a shock dose of sodium hypochlorite at set intervals to the firewater pump caisson and a continuous dose of sodium hypochlorite to the jockey pump caisson. This shock dose keeps the firewater pump caissons clean and free from macrofouling while also ensuring the firewater main loop is algae and slime free.

Cooling Water

For Use on Vessels, Oil & Gas Facilities and Seachest

In applications where seawater is used for cooling, biofouling or the buildup of marine growth reduces the system efficiency, increases the frequency of system maintenance and decreases the life of process equipment. De Nora Water Technologies offers a skid-mounted system that receives pressurized seawater and produces sodium hypochlorite at a concentration of 40 to 1660 ppm that can then be injected, at any point, within the vessel to control marine growth. The product can be varied 0 to 100 percent to maintain the desired residual.





SANILEC® Electrolyzers

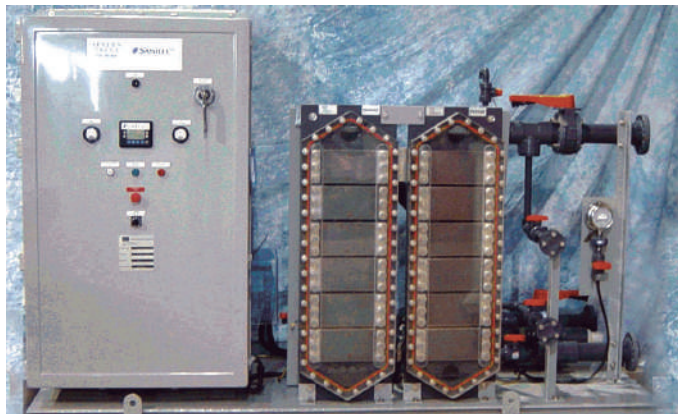
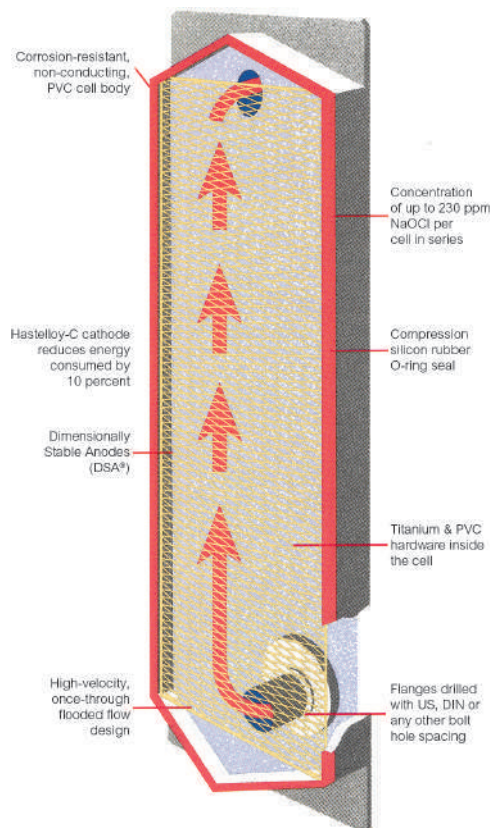
Design: Each cell with single electrode pack is monopolar in design. When supplied as 2, 3 or 6 electrode packs per cell, it becomes bipolar in nature. This cell arrangement provides maximum flexibility for electrical circuit configuration.

Cathodes: Hastelloy C-276 provides for excellent corrosion resistance to the seawater/hypochlorite solution produced in the cell and has 10% lower power consumption as compared to standard titanium cathodes. Furthermore, the Hastelloy cathodes will not hydride.

Cell Cover: Clear acrylic for visual inspection of the cell's internal components and observation of electrolysis during normal operations.

Gaskets: Viton O-ring seals around conductors and a silicon rubber O-ring seals the cell cover to the body. These gasket types have demonstrated long life and excellent sealing properties.

Hardware: Internal fasteners and hardware are titanium; external fasteners are 316 stainless steel.



- Anodes have DSA[®] coated titanium
- Noble Metal Oxides of Platinum Group
- Monopolar Anode/Cathode
- Hastelloy C-276 Cathode
- PVC Body
- Clear Acrylic Cover
- Standardized Models
- Available Inventory of cells
- Power Consumption typically less than 4.0 DC KWh/KgCl₂
- 5 year warranty

Generator Ratings (Per Train)					
Model	Production (kg/h)	Amount of Seawater to be Treated at 2ppm (m ³ /h)	Output Concentration (ppm)	Seawater Flowrate (m ³ /h)	AC KVA*
SC500	10	5,000	294	34.1	62
SC1000	20	10,000	589	34.1	124
SC1500	30	15,000	879	34.1	183
SC2100	40	20,000	1176	34.1	245
SC2600	50	25,000	1472	34.1	308
SC3100	60	30,000	1764	34.1	369
SC3700	70	35,000	2064	34.1	437

All values based on seawater temperature of 25°C and 18,980 ppm chloride. *Values may change depending on rectifier efficiency.

The OMNIPURE™ Series 64 Marine Sewage Treatment System

Compliant in Every Port, Harbor, Ocean and Sea

With MEPC.227(64), the International Maritime Organization formally adopted a new standard for the treatment of offshore sewage. More specifically, the guidelines call for a reduction in the amount of TSS, or total suspended solids. Obviously, maritime vessels and offshore platforms are compelled to comply. In doing so, they are also compelled to find a solution that achieves the benchmark using proven technology that integrates easily with the simplest long-term operation, minimal maintenance and most sensible economic impact.

For many, the solution to this new guideline is the OMNIPURE™ Series 64 from De Nora.

Already proven around the world. Now improved aboard your ship or platform.

De Nora didn't turn to new, untested ideas when creating the OMNIPURE™ Series 64. No, we have achieved compliance to the MEPC.227(64) requirements by utilizing the same real-world, proven electrolytic processes that can be found in nearly 3000 OMNIPURE treatment units installed in marine vessels and offshore platforms around the world. Combining electroflotation to our already successful DSA® electrode technology further ensures treatment compliance. While De Nora, the inventor of DSA® coatings, has not changed its core electrolytic technology, the footprint and maintenance requirements for this new OMNIPURE™ Series 64 have been minimized.

Removing the mess and maintenance of filters.

Far different from the majority of options available for meeting the new IMO standard, the hands-off OMNIPURE™ Series 64 does not rely upon raw sewage inlet screens and filters.

Messy, cumbersome and a disgusting to service, the presence of pre-screens or filters makes a sewage treatment system a much larger burden to operate.

Instead of pre-screens or filters, the OMNIPURE™ Series 64 is a hands-off system that employs maceration for solids break-down, electrolytic treatment and finally electroflotation to effectively treat the waste stream to, or beyond regulatory requirements.

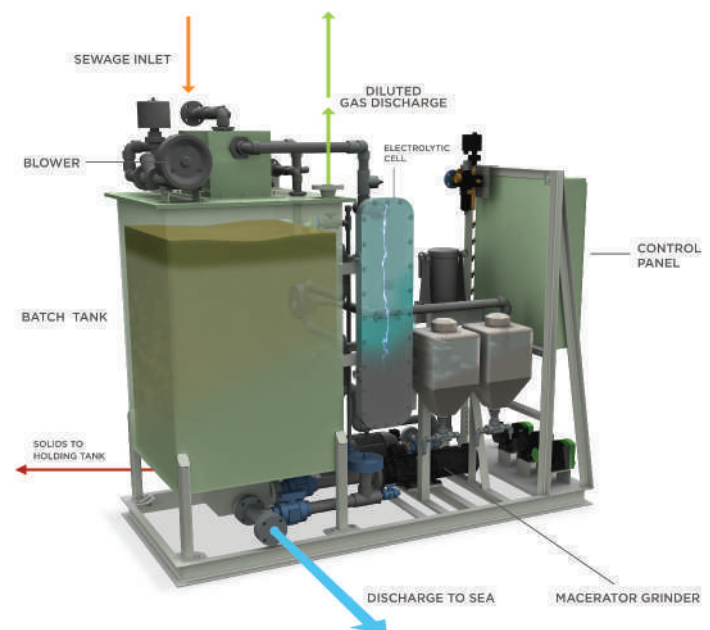
One Small Footprint, One Big Step for Simplicity

The OMNIPURE™ Series 64 treats raw sewage to, or beyond the now more stringent MEPC.227(64) guideline while taking up less space than its predecessor. Not just a system smaller in size, it is easier to operate with simplified controls, minimal instrumentation, less maintenance and a completely hands-off solids management process.



Processing Raw Sewage into Compliant Effluent

1. A metered amount of seawater is added to the OMNIPURE™ Series 64 batch tank. At the same time, a concentrated polymer is mixed into solution with potable water in an automatic mixing chamber on the unit for use later.
2. Untreated sewage is pumped from the vessel's or platform's holding tank and into the OMNIPURE™ Series 64 batch tank, filling it to a precise, sensor-controlled volume.
3. The sewage and seawater mixture is recirculated through the electrolytic cell to oxidize and kill the pathogens in the wastewater. A de-foaming agent is also added to keep foaming to a minimum.
4. During treatment, any process gases are vented safely away by the integral dilution blower unit.
5. After the pathogens have been eliminated using the electrolytic cell, the pre-mixed polymer solution is injected into a 'mix spool' which begins an agglomeration process.
6. In addition to killing pathogens, the use of the electrolytic cell encourages an electroflotation effect to occur at the surface of the wastewater in the batch tank.
7. Agglomerated solids form a floating 'solids layer' in the batch tank without the use of externally induced air, or large air blowers.
8. After a brief separation time, the clear effluent below this solids layer is pumped overboard after de-chlorination, meeting or exceeding the MEPC.227(64) guideline.
9. Remaining solids in the batch tank are pumped out through a macerator pump, and sent to the solids holding tank for later disposal. As an enhanced option, or when a wet solids holding tank is not feasible, De Nora also offers a self-contained centrifuge solids handling system that effectively concentrates the wet solids waste to a dewatered, class 'B' solids level, which can be safely disposed of in a traditional landfill.





ULTIMATE SAFETY

NO LAYERING • NO BONDING • NO SURFACE GRIT COATINGS

TRAX anti-slip covers eliminate slips, trips and falls in any industrial or commercial environment by ensuring maximum traction for workers and pedestrians in numerous applications where there are stairs, ladders, or walkways.

Worldwide, our products and custom applications are currently providing safer footing every minute of every day for thousands of people.

PHYSICAL PROPERTIES

TRAX anti-slip covers are manufactured entirely by hand in a unique multi-step fabrication process, then trimmed and cut to size. By incorporating the separate elements into one seamless fiberglass composite material, we build the strongest and most durable product available on today's market.

A base mix of fire-retardant polyester resins is interspersed with layers of immensely strong interwoven glass fiber. The color pigment is floated throughout the full thickness of the material, ensuring the color never wears off or becomes unsightly. The fused alumina anti-slip grit is then forced under pressure into the base mix while it is still wet, followed by a final layer of resin over the top of it all. This



GRADES

The super tough abrasive grit used to form the rugged surface on TRAX anti-slip covers is one of the hardest compounds known. Fused alumina grit is bound within the glass reinforced body of all TRAX covers, presenting a top surface with almost diamond hard characteristics.

As different manufacturers have different names for each grade of their anti-slip material, the following comparisons of grading may be used for TRAX:

Grade	U.S. Grading	Microns (Average)
Fine	60 mesh	250
Industrial	16 mesh	356
Offshore	12 mesh	686

TRAX anti-slip covers come in four grit sizes to suit any application:

MOHS Scale Comparison	
Diamond	1.0
Silica Carbide	9.7
Fuse Alumina	9.4
Hard Quartz	7.0
Steel	6.0

TRAX anti-slip covers come in four grit sizes to suit any application:

FINE

Commercial buildings, swimming pools



INDUSTRIAL

For most industrial applications



OFFSHORE

Oil platforms, heavily soiled areas



EXTREME

Heavy snow and other extreme applications



COLORS

TRAX anti-slip covers are available in a variety of colors:

Safety Yellow, Black

Specialty colors: Red, White, Blue, Green, Gray



*Color matching to RAL classic color system is available on request.

TESTING DATA

RESISTANCE TO FIRE:

Independent laboratory testing has confirmed that TRAX products will exhibit the following flammability characteristics:

- Rated Class 2, when tested according to BS 476, Part 7
- Rated self-extinguishing when tested in accordance with ASTM D 635
- Rated indices when tested according to AS 1530-Part 3, 1976:

Ignitability Index	15
Spread of Flame Index	9
Heat Evolved Index	8
Smoke Developed Index	8

SLIP RESISTANCE:

TRAX products have coefficient of friction (COF) test results produced from the three internationally most

widely accepted slip meters:

- The Brungraber Mark II
- The English XL VIT
- The British Pendulum Slip Tester

Our products have been tested with the above apparatus and found to comply with and exceed the requirements of the following standards:

- ASTM F1677 • ASTM F1679
- NFPA 1901 • DIN 51130
- AS/NZS 4586

LUMINESCENCE

A fully embedded, photoluminescent strip can be included on all TRAX products to provide glow-in-the-dark capability and critical visibility of emergency evacuation and egress pathways in any facility.

GLOW-IN-THE-DARK capability can be included with TRAX anti-slip products to provide extremely long-lasting definition of step edges, ladder rungs, and directional indicators in low and no-light situations. A fully embedded, photoluminescent strip shows green in daylight and glows bright green/yellow in darkness and will glow for a minimum of twelve hours once fully charged by a light source. These treatments provide critical visibility of emergency evacuation and egress pathways in any facility.

The strontium aluminate pigment which is incorporated in all TRAX photoluminescent products glows more than ten times brighter than traditional glow products made using zinc sulfide.

The pigment is charged by exposure to light sources such as fluorescent, incandescent, or unfiltered UV light and will emit luminescence after the activating light source is unavailable. This material is non-toxic and non-radioactive.

The table below indicates the luminescence decay timelines of our glow-in-the-dark product applications.

Luminescence performance has been measured and charted from initial darkness to a condition of 0.3 milli-candelas per square meter, which is the visibility threshold of the human eye.

The test samples were exposed to 1,000 lux illumination from a 150-watt xenon light source for five minutes immediately prior to the initial luminescence measurements.

Luminance Measures mcd/m²

Product	Initial	After 5 Minutes	After 10 Minutes	After 30 Minutes	After 60 Minutes	After 120 Minutes	Time to 0.3/Mcd. m2
Strontium Aluminum	2,980	550	292	87	40	18	5,170



CLIENTELE



OUR TRACK RECORDS

PROJECT REFERENCE



OUR TRACK RECORDS

MUD CLEANING | LNGC PUTERI ZAMRUD

Mud cleaning of Tank No.1 STBD of 40 Tonnes using 1 unit of SV110V with a total of 9 Pax Manpower.

Preparation work prior to entry took 2 days while the pumping/washing inside took 4 days (08:00 - 23:00)



MUD CLEANING | MT NAUTICA RENGAM

Mud cleaning of WBT of 200 Tonnes using 1 unit of SV110V & 1 unit SV60V with a total of 7 Pax Manpower.

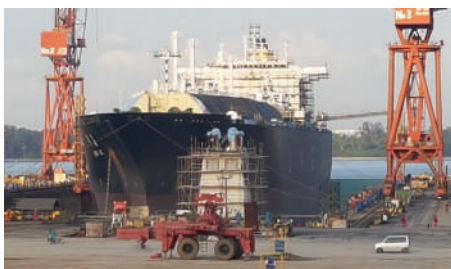
Preparation work prior to entry took 2 days while the pumping/washing inside took 4 days (08:00 - 23:00)



MUD CLEANING | LNGC SHEN HAI

Mud cleaning of T3 STBD, 4 STBD & 4 PORT A of 1300 Tonnes using 3 unit of SV110V & 1 unit Wilden pump with a total of 30 Pax Manpower.

Preparation work prior to entry took 1 days while the pumping/washing inside took 9 days.



OUR TRACK RECORDS

SLUDGE CLEANING | MV CTP HONOUR

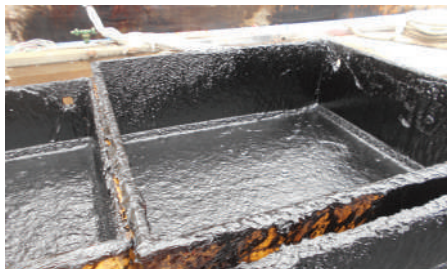
Sludge & Mud cleaning of:

Fore peak tank 2C, 3P, 4S, 5P, 6S, 7P, 8S, 9P, 10S, 11P, 12S, 13P, 14S & AFT Peak Tank]

Fuel Oil Tanks: HFO Tank 35, 37, 38, 39, 69 and Diesel Tank 41

using 1 unit of SV110V, 2 unit of Graco Husky 2150 & 1 unit Graco Husky 550 with a total of 10 Pax Manpower.

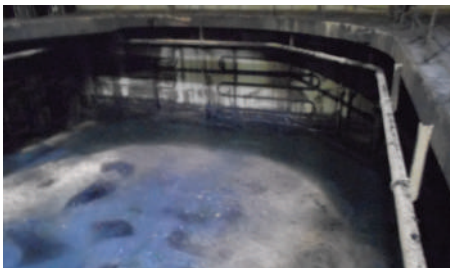
Preparation work prior to entry took 2 days while the pumping/washing inside took 7 days.



SLUDGE REMOVAL | FSO ABU

Sludge removal of Slop Tank 6C producing 6 Tonnes/hr using 1 unit of SV110V with a total of 8 Pax Manpower.

Preparation work prior to entry took 2 days while the pumping/washing inside took 4 days (08:00 - 23:00)



DESANDING/CLEANING | FPSO KIKEH

Vessels to be cleaned:

- IP Separator
- Electrostatic Treater
- Crude Degasser
- LP Separator
- Produced Water Degasser

Using 2 unit of SV60V, with a total of 11 Pax Manpower.

Preparation work prior to entry took 4 days while the while the vessel cleaning works took 7 days. Housekeeping took 2 days

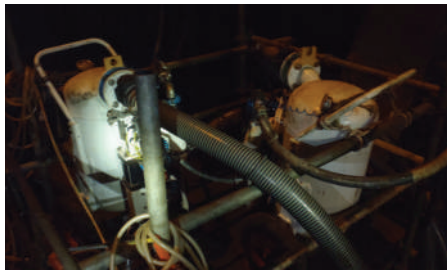
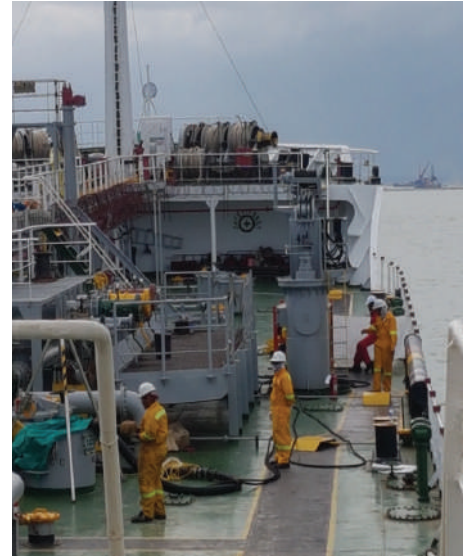


OUR TRACK RECORDS

PUMPING SERVICES | MT ORKIM FORTUNE

Pumping of Tank 4S to 4P of 653m3 cargo using 1 unit of hydraulically driven submersible pump & 1 unit of diesel driven hydraulic power pack

Preparation work prior to entry took 3 hours while the pumping took 3.5 hrs.



DESANDING & CLEANING | FPSO KIKEH

Desanding of cargo Tank 3C with production of 30 Tonnes/day using 2 unit of SV110V and 2 unit wilden pump with 10 pax manpower.

4 Tank entry per day @ 1 hour each entry.



PUMPING WORK | INAI KENANGA

Pumping work for dredging vessel with 500 Tonnes of HFO using 1 unit of SV110V with 9 pax manpower.

Pumping took 23 days with 2 shifts working 24 hours.



OUR TRACK RECORDS

PUMPING & CLEANING | TECHNO INDAH

Pumping of 2 Slop oil tank of **1600 Tonnes sludge** using **2 unit SV110V** with **12 pax manpower**.

Pumping took 6 weeks, cleaning took 3 weeks & housekeeping took 1 day.



PUMPING SLUDGE/SLURRY | FSU NAUTICA

-Provision of manpower & equipment for pumping of sludge and slurry from-duct keel tunnel.

-Pumping & demucking of 13 cargo tank to no.3 Port tank and no.4 Stbd tank.



TANK CLEANING | ATT TANJUNG BIN

TANK 2101 - 46 meters diameter
TANK 1109 - 56 meters diameter
TANK 2504 - 34.5 meters diameter
TANK 1107 - 46 meters diameter
TANK 2109 - 37.5 meters diameter
TANK 1106 - 46 meters diameter



OUR TRACK RECORDS

TANK CLEANING | ATT TANJUNG BIN

TANK 1205 - 38 meters diameter
TANK 2404 - 42 meters diameter
TANK 2506 - 34.5 meters diameter
TANK 1204 - 38 meters diameter
TANK 2403 - 42 meters diameter
TANK 2501 - 23 meters diameter



WATER JETTING | S300 CRANE BOOM

High pressure water jetting & painting 1500m² crane mast and boom with 3 coats of paint.

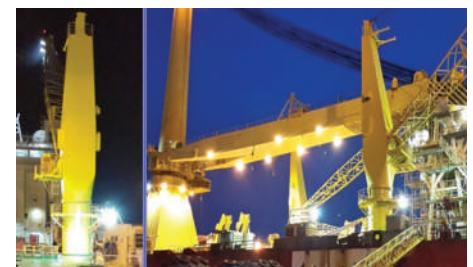
Duration took 2 weeks with 1 unit high pressure water jet and 8 Pax manpower



WET ABRASIVE BLAST | S300 MAIN DECK

Blasting & painting main deck 2000m², 40 tonne crane port & stbd, 3000 tonne crane up to boom area.

Duration took 18 days with 8 Pax manpower working 2 shifts



OUR TRACK RECORDS

WET ABRASIVE BLAST | S3000 MAIN DECK

Hydrojetting 3000 PSI and painting 3 coats lay stringer.

Duration took 2 weeks with 12 Pax man-power



WET ABRASIVE BLAST | FSO NAUTIKA MEKAR

Chemical washing 800m², Wet abrasive blasting SA 2.0 800m², Vacuum Cleaning, High pressure washing 10,000 PSI, Vacuum cleaning, & painting 3 coats epoxy. 8 Pax manpower.



WET ABRASIVE BLAST | FPSO KIKEH

Hydrojetting 3000 PSI and painting 3 coats at inert gas cooling tower and deck seal

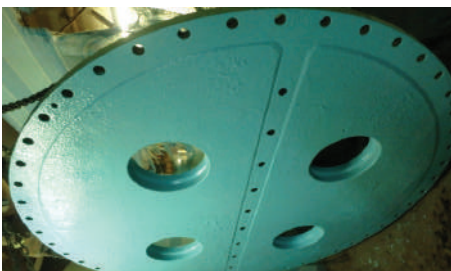
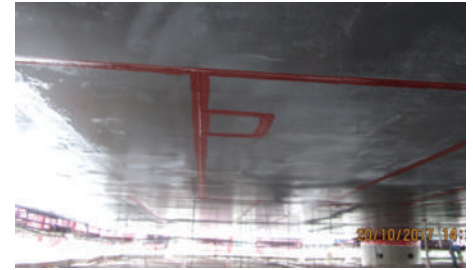


OUR TRACK RECORDS

WET ABRASIVE BLAST | JACK UP RIG EP7

Total area of 2800m² using 4 pcs blasting nozzle with surface prep quality of S.A 2.5. Pull off result of 2900 PSI

Duration took 30 days with 24 Pax man-power



WET ABRASIVE BLAST | FPSO KIKEH

Total area of 12m² using 4 Pcs blasting nozzle with surface prep quality of S.A 2.5. Coated with ARCOR EE950HT

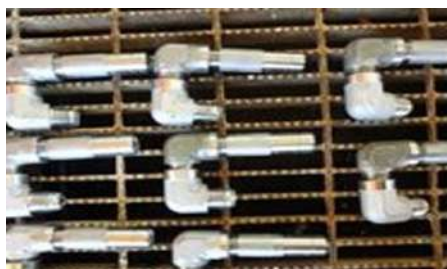
Duration took 10 Days with 5 Pax man-power



RO MAINTENANCE | SAMARANG

PARK SEA RECOVERY 2x25m³/day

Renew both RO system's booster pump, 6 pcs membrane, membrane end cap seals. Performing troubleshooting and 24 hours endurance test.



OUR TRACK RECORDS

HCL GENERATOR | FSO MEKAR BERGADING

Commisioning of hypochlorite generator on board FSO Mekar Bergading with a production of 2x3KG/HR



RO COMMISSIONING | FSO MEKAR BERGADING

Commisioning of RO Water Maker on board FSO Mekar Bergading with a production of 2x20m3/day



SODIUM HCL GENERATOR | KINABALU PLATFORM

Performed scheduled maintenance by chemical cleaning 4 cells, degassing tank, piping and valves. Provided trouble shooting and system training for platform operation personnel



PROJECT REFERENCE LIST

NO	PROJECT NAME	CLIENT	WORK DESCRIPTION	DATE	LOCATION
1	FPSO KIKEH	Mogbiss	Provision of manpower and equipment for desanding of 1500m3 of Sand/Sludge from 3C Cargo Tank	May-15	Offshore Labuan
2	LNG Puteri Zamrud	MMHE	Provision of manpower and equipment for removal of mud, debris, washing and mob dry x 1 ballast tank	Jun-16	MMHE, Johor
3	MT Maliau	MMHE	Provision of manpower and equipment for removal of mud, debris, washing and mob dry x 3 ballast tanks	Jul-16	MMHE, Johor
4	FPSO ABU	MMHE	Provision of manpower and equipment for pumping of oil/sludge from 6C Slop tank	Aug-16	MMHE, Johor
5	Samarang Platform	PCSB	Provision of manpower and equipment for RO water maker periodic maintenance	Aug-16	Offshore Sabah
6	MV CTP Honour	MMHE	Provision of manpower and equipment for removal of mud, oily water, debris and washing of 22 HFO tanks	Oct-16	MMHE, Johor
7	FPSO Kikeh	MDPC	Provision of manpower and equipment for removal of sand, sludge and cleaning of 5 units topsides vessels	Sep-16	Offshore Labuan
8	FSO Mekar Bergading	MMHE	Provision of manpower and equipment for wet abrasive blasting and painting of 2 units cylinder oil tank	Aug-16	MMHE, Johor
9	FPSO Mampu 1	MMHE	Provision of manpower and equipment for hydraulic winch troubleshooting	Nov-16	MMHE, Johor
10	LNG Seri Angkasa	MMHE	Provision of manpower and equipment for Crane Hydraulic Hose Replacement and maintenance of 5 units crane.	Nov-16	MMHE, Johor
11	FSO Mekar Bergading	MMHE	Provision of manpower and equipment for Wet abrasive blasting and painting in void space.	Nov-16	MMHE, Johor
12	FSO Benchamas 2	MMHE	Provision of manpower and equipment for removal of mud, debris, washing and mob dry x 2 ballast tanks	Nov-16	MMHE, Johor
13	FSO Mekar Bergading	MMHE	Provision of manpower and equipment for Wet abrasive blasting and painting in Sump Tank	Dec-16	MMHE, Johor
14	LCOT	LCOT	Provision of manpower and equipment for pumping of oil and sludge from storage tank	Jan-17	Labuan
15	MV CTP Golden	MMHE	Provision of manpower and equipment for pumping of mud, oily water, debris and washing from 12 tanks	Mar-17	MMHE, Johor
16	Samarang platform	PCSB	Provision of manpower and equipment for "Sea Recovery" RO water maker maintenance	Mar-17	Offshore Sabah
17	MV Extreme Brilliance	MMHE	Provision of manpower and equipment for 7m3 sludge collection, packing and disposal	May-17	MMHE, Johor
18	FPSO Kikeh	MDPC	Provision of manpower and equipment for cleaning of 4 MGO & HFO storage tank in Engine Room	May-17	Offshore Labuan
19	FSO Mekar Bergading	MMHE	Provision of manpower and equipment for temporary chlorine injection system for sea water treatment	Jun-17	MMHE, Johor
20	LNG Aman Sendai	MMHE	Provision of manpower and equipment for cleaning of 4 HFO storage tanks	Jun-17	MMHE, Johor
21	MV Maritime Jewel	MMHE	Provision of manpower and equipment for collection, packing and disposal of 4m3 oil sludge	Jul-17	MMHE, Johor
22	LNG Hyundai Aquapia	MMHE	Provision of manpower and equipment for cleaning of FO and LO sludge tank.	Jul-17	MMHE, Johor
23	MV Curdola Jacob	MMHE	Provision of manpower and equipment for Port and Stbd chain locker cleaning and painting	Jul-17	MMHE, Johor
24	MV Bull Sulawesi	MMHE	Provision of manpower and equipment for pumping of oil/water from Cargo tank 6 Port, 6 Stbd and Slop Port.	Jul-17	MMHE, Johor
25	LNG Shen Hai	MMHE	Provision of manpower and equipment for pumping of 1300m3 of mud and cleaning inside Ballast tank	Jul-17	MMHE, Johor
26	FPSO Kamelia	UDPS	Provision of manpower and equipment for pumping of sand from inside cargo tank to waste collecting skip.	Jul-17	Offshore Kelantan
27	Seligi Platform	UDPS	Provision of manpower and equipment for pumping of sludge/slurry from topside vessel	Jul-17	Offshore Terengganu
28	MT Orkim Fortune	ORKIM	Provision of manpower and equipment for pumping of 635m3 of fuel in between cargo tanks	Aug-17	Anchorage, Johor
29	Kinabalu Platform	Mogbiss	Provision of manpower and equipment for "PEPCON" Hypochlorination system maintenance.	Sep-17	PCSB, Sabah
30	Rig Energy Producer 7	MMHE	Provision of manpower and equipment for Wet abrasive blasting and painting 2800m2 of external hull.	Oct-17	MMHE, Johor
31	MT Orkim Glory	ORKIM	Provision of equipment and manpower for pumping of 1500m3 of fuel in between cargo tanks	Nov-17	Anchorage Sandakan
32	FSO Benchamas 2	MMHE	Provision of equipment and manpower for pumping of 1900m3 of sea water for incline test	Feb-18	MMHE, Johor
33	FSO Bertam	HHA Associates	Provision of equipment and manpower for pumping of 3000m3 of ballast water	Mac 2018	Offshore, Terengganu
34	FSO Mekar Bergading	MMHE	Provision of manpower and equipment for Pre-commissioning of Immersed Cathodic Protection System (ICCP)	Mac 2018	MMHE, Johor
35	FSO Mekar Bergading	MMHE	Provision of equipment and manpower for pumping of 2400m3 of sea water for incline test.	Apr-18	MMHE, Johor
36	Techno Indah Sdn Bhd	Cenviro	Provision of manpower and equipment for pumping of sludge/slurry from waste oil tank to ISO tank	Jun-18	MMHE, Johor
37	FSO Mekar Bergading	Mogbiss	Provision of manpower and equipment for commissioning of RO water maker 2 x 20m3/day (H2O Inc)	Jul-18	Offshore, Kelantan
38	FSO Mekar Bergading	Mogbiss	Provision of manpower and equipment for commissioning of Hypochlorination system 2 x 3kg/hr (H2O Inc)	Jul-18	Offshore Kelantan
39	FSU Tenaga 1 & 4	Eaglestar	Provision of manpower and equipment for Maintenance of Hamworthy sewage treatment plant	Jul-18	RGT, Melaka
40	Cenviro Sendayan	Cenviro	Provision of manpower and equipment for pumping of 1000m3 of sludge/slurry from ISO tank to IBC tank	Sep-18	Negeri Sembilan
41	FSU Tenaga 1 & 4	Eaglestar	Provision of manpower and equipment for Maintenance of Oily Water Separator (B+V Industrietechnik GmbH)	Oct-18	RGT, Melaka
42	HESS Bergading	HESS	Purchase and delivery of marine supplies, tool and consumables	Oct-18	Offshore, Kelantan
43	Techno Indah Sdn Bhd	Cenviro	Provision of manpower and equipment for 2500m3 sludge pumping and cleaning of 3 waste storage tanks	Nov, 2018	MMHE, Johor
44	MT Okim Power	ORKIM	Provision of manpower and equipment to 430m3 of fuel between cargo tanks.	Feb-19	Anchorage, Johor
45	FSO Puteri Dulang	FPSO Ventures	Provision of manpower and equipment for Auxiliary boiler maintenance and repair work	Feb-19	Offshore Terengganu
46	FPSO KIKEH	MDPC	Provision of manpower and equipment for Blasting and painting auxiliary condenser end covers	Mac 2019	Offshore Labuan
47	MV Yasa Golden	MMHE	Provision of Equipment and Manpower for pumping of 1000m3 of HFO and MGO from MT Yasa Golden to barge	Mac2019	MMHE, Johor
48	Naga 2, Jack Up Rig	MMHE	Provision of manpower and equipment for mud pumping and cleaning inside 3 unit Spud Can tank	Mac 2019	MMHE, Johor
49	Angsi Platform	Hydrise Solution	Provision of manpower and equipment for sludge/slurry pumping from topside vessel	May-19	Offshore Terengganu
50	ASNAF House Project	Zakat Selangor	Provision of manpower and equipment to build and delivery of 4 units of single story 800sqft ASNAF house	May-19	K. Kubu Bahru, Selangor
51	Kapar Energy Ventures	KEV	Provision of manpower and equipment to supply, install and commissioning of 19 units air conditioning system	Jul-19	Kapar, Klang
52	MT Orkim Victory	ORKIM	Provision of equipment and manpower for pumping of 600m3 of fuel in between cargo tanks	Aug-19	Anchorage, Johor
53	FSU MAMPU 1	FPSO Ventures	Provision of manpower and equipment to refurbish, testing, install and commissioning of 4 units DG Governor	Sep-19	Offshore, Sarawak
54	FPSO KIKEH	MDPC	Provision of manpower and equipment for shock dosing of sodium hypochlorite at sea water lift pump	Nov-19	Offshore Labuan
55	FPSO KIKEH	MDPC	Provision of manpower and equipment to perform engine room, bilge well and tank top cleaning, 32,800m2	Nov-19	Offshore Labuan
56	FSU Nautica Muar	EA Technique	Provision of manpower and equipment for pumping of sludge/slurry from Duct Keel Tunnel	Nov-19	Offshore Sarawak
57	FSU Nautica Muar	EA Technique	Purchase and delivery of airline breathing apparatus for duct keel cleaning	Nov-19	Offshore Sarawak
58	Bergading CPP	HESS	Purchase and delivery of Hypochlorination system spare parts	Nov-19	Offshore Kelantan
59	Larut A Platform	EPOMS	Provision of manpower and tools for Hypochlorination system health checks	Dec-19	Offshore Terengganu
60	FSU Nautika Muar	EA Technique	Purchase, fabricate and delivery of temporary sludge steam heating system for duct keel cleaning	Jan-20	Offshore Sarawak
61	FPSO KIKEH	MDPC	Provision of manpower and equipment for Sea Water Lift Pump suction pipe continuous dosing with chlorine	Feb-20	Offshore Labuan
62	FSO Golden Star	MMHE	Provision of manpower and equipment for pumping 1900m3 of sea water for incline.	Aug-20	MMHE Johor
63	Casa Armada	Casa Armada	Purchase and delivery of SV110 Sludge and Slurry Pump	Aug-20	Kemaman
64	FOIS Nautica Tembikai	EA Technique	Purchase and delivery of Tank Cleaning Equipment and Consumables	Sep-20	Offshore Terengganu

PROJECT REFERENCE LIST

NO	PROJECT NAME	CLIENT	WORK DESCRIPTION	DATE	LOCATION
65	FSU Nautica Muar	EA Technique	Provision of manpower and equipment for Duct Keel Tunnel Cleaning	Oct-20	Offshore Sarawak
66	FSU Nautica Muar	EA Technique	Provision of manpower and equipment for cargo from 13 cargo tank into 2 dedicated tanks. Approx. 19,000bbls	Oct-20	Offshore Sarawak
67	FSU Tenaga 1 & 4	Eaglestar	Provision of manpower and equipment for Sewage Treatment Plant & Oily Water Separator Maintenance.	Nov-20	RGT, Melaka
68	FPSO Kikeh	MDPC	Shock dosing of sodium hypochlorite at sea water lift pump	Jan-21	Offshore Labuan
69	FSU Tenaga 1 & 4	Eaglestar	Oily Water Separator (OWS) cleaning and maintenance & Bilge Holding Tank (BHT) pumping and tank cleaning	Mac 2021	RGT, Melaka
70	FPSO Kikeh	MDPC	Provision of manpower and equipment for desanding and cleaning from three units of crude oil tanks, 3W3C	Mac 2021	Offshore Labuan
71	Caspian Sea	Ascet/OMNI	De-Mucking/Cargo Tank Cleaning On Board FSO Caspian Sea	Jul-21	Offshore Sarawak
72	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2101	Jul-21	Kukup, Pontian
73	West Vigilant	Satumarin	Manpower Supply for West Vigilant Jack up Rig	Jul-21	Labuan/Batam
74	CPP Bergading	TTES Frontken	Supavac (Model SV110) Slurry Pump Rental c/w accessories	Aug-21	Offshore, Kelantan
75	IWK Pantai	Super Hanter	Supavac (Model SV110) Slurry Pump Rental c/w accessories and Manpower Supply	Aug-21	IWK, Pantai & Kinrara
76	FSO ORKID	MVOT	Provision of Manpower, Equipment and Consumables for Water Ballast Tank Cleaning on FSO Orkid	Sep-21	Offshore, Kelantan
77	REGAS Terminal	RGTSU	Supply and Deliver for Electrolyzer HX.200 (DNWT)	Oct-21	SG Udang, Melaka
78	KD Kasturi	BNSY	Services for STP Bookcell and spare parts supply	Oct-21	Lumut, Perak
79	CPP Bergading	HESS	Supply of Service Engineer and Hypochlorinator Parts (DNWT)	Oct-21	Offshore, Kelantan
80	Altrada	Altrada SB	Blasting Equipment Rental	Oct-21	Kukup, Johor
81	De Nora	De Nora	Supply of Service Engineer for Kasawari CPP project – Hypochlorination system installation supervision	Nov-21	MMHE, Johor
82	HESS	CPP Bergading	3 years price agreement for supply of Hypochlorination system spare parts	Dec-21	Offshore, Kelantan
83	Pengurusan Air Selangor	Air Selangor	Supply of underwater ROV for quality investigation and assessment – pilot project	Dec-21	Kuala Lumpur
84	Marin Selatan	MV Als Vesta	Pumping (de-bunkering) of 535m3 of fuel oil (VLSFO) for MV Als Vesta to MS Kite	Jan-22	Port Klang Anchorage
85	Marin Selatan	MV Cherry	Pumping (de-bunkering) of 650m3 of fuel oil (VLSFO) for MV Cherry to MS Kite	Jan-22	Port Klang Anchorage
86	Eaglestar	FSU 1	Sewage treatment system and oily water separator maintenance	Jan-22	REGAS, Melaka
87	Eaglestar	FSU 1	Sewage treatment system and oily water separator maintenance	Jan-22	REGAS, Melaka
88	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-1109	Apr-22	Kukup, Pontian
89	Marin Selatan	MV Carpathia	Pumping (de-bunkering) of 850m3 of fuel oil (VLSFO) for MV Carpathia to MS Osprey	Apr-22	Port Klang Anchorage
90	Tumpuan Megah	MV Sasebo Ace	Pumping (de-bunkering) of 1526m3 of fuel oil (VLSFO) for MV Sasebo Ace to MS Omura	Apr-22	Port Klang Anchorage
91	Tumpuan Megah	MV Sasebo Green	Pumping (de-bunkering) of 1195m3 of fuel oil (VLSFO) for MV Sasebo Green to MS Omura	May-22	Port Klang Anchorage
92	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2405	May-22	Kukup, Pontian
93	Tumpuan Megah	MV Sasebo Eco	Pumping (de-bunkering) of 1195m3 of fuel oil (VLSFO) for MV Sasebo Eco to MS Seirra Pioneer	Jul-22	T. Pelepas Anchorage
94	FPSO Kikeh	MDPC	Provision of manpower and equipment for demucking and cleaning Cargo Oil Tank 1C	Jul-22	Offshore Labuan
95	REGAS Terminal	PGB	DeNora Hypochlorination system maintenance	Jul-22	Sungai Udang, Melaka
96	REGAS Terminal	PGB	Piping Replacement from GRE to CPVC	Jul-22	Sungai Udang, Melaka
97	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-1107	Aug-22	Kukup, Pontian
98	FPSO Kikeh	MDPC	Provision of manpower and equipment for demucking and cleaning Cargo Oil Tank 1P, 1S, 4P, Slop Ffd & Slop Aft	Sep-22	Offshore Labuan
99	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2109	Sep-22	Kukup, Pontian
100	Intel Falcon	Cenviro	Supply of manpower and equipment for demolition/cutting and packing of GRE scheduled waste material.	Sep-22	Kulim Hi Tech Park
101	ATT Tanjung Bin	ATT Tjg Bin	Supply of manpower and equipment for painting & blasting of GP Bullding	Sep-22	Kukup, Pontian
102	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-1106	Oct-22	Kukup, Pontian
103	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2205	Jan-23	Kukup, Pontian
104	Tumpuan Megah	MV Cavalla	Pumping (de-bunkering) of 500m3 of fuel oil (Marine Diesel) for MV Cavalla to MS Straits 3	Jan-23	T. Pelepas Anchorage
105	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for VM34 pit cleaning	Feb-23	Kukup, Pontian
106	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-1203	Mar-23	Kukup, Pontian
107	NOV	NOV Singapore	Slurry Pump Maintenance & Parts	Mar-23	Singapore
108	Crystall Offshore	COPL	Manpower, Equipment, Tools and Consumables for mud and sand removal.	Apr-23	Pengerang Anchorage
109	FPSO Kikeh	MDPC	Provision of manpower and equipment for demucking and cleaning Cargo Oil Tank Slop Fwd & Slop Aft (Shutdown 2.0)	Apr-23	Offshore Labuan
110	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2505	May-23	Kukup, Pontian
111	Bumi Jaya	MT Pablo	Pumping (de-bunkering) of 1438m3 of fuel oil and marine gas oil for MT Pablo	May-23	Tg. Sedili Anchorage
112	PTTEP	Duragate	Inspection Of Sewage Treatment Plant Package And Hypoclorinator System	May-23	Offshore Sarawak
113	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2502	Jun-23	Kukup, Pontian
114	NOV	NOV Singapore	Slurry Pump & Parts	Jun-23	Singapore
115	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2204	Jul-23	Kukup, Pontian
116	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2203	Jul-23	Kukup, Pontian
117	FPSO Kikeh	MDPC	ER SBOT, Void Space, Tank Top Cleaning	Aug-23	Offshore Labuan
118	HESS	CPP Bergading	Supply And Materials And Spare Parts For Electrochlorinator For CPP Bergading - Train A	Sep-23	Offshore Terengganu
119	FPSO Kikeh	MDPC	Provision of manpower and equipment for demucking and cleaning Cargo Oil Tank 3C and 1P	Oct-23	Offshore Labuan
120	NOV	NOV Singapore	Slurry Pump Maintenance Works at Bangladesh & Spare Parts	Oct-23	Singapore & Bangladesh
121	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2307	Oct-23	Kukup, Pontian
122	Bayu Purnama	CHOC Platform	Provision of manpower for CKX Hypochlorinator System Health Check	Oct-23	Offshore Kelantan
123	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Perimeter Drain Cleaning	Nov-23	Kukup, Pontian
124	HESS	CPP Bergading	Supply And Materials And Spare Parts For Electrochlorinator For CPP Bergading - Train B	Dec-23	Offshore Terengganu
125	FPSO Kikeh	MDPC	Provision of Tank Cleaning Activities (COT 1C)	Jan-24	Offshore Labuan
126	Air Selangor	Air Selangor	Manpower, Equipment, Tools and Consumables for Ater Tank Cleaning	Apr-24	Onshore Putrajaya
127	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-1205	May-24	Kukup, Pontian
128	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2404	May-24	Kukup, Pontian
129	FPSO Kikeh	MDPC	Provision of Tank Cleaning Activities (COT 1P, 2C & 3S)	Jun-24	Offshore Labuan
130	FSO Orkid	MVOT	Tank Cleaning for Hot Work of RLE Project	Jun-24	Offshore, Kelantan
131	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-1204	Jul-24	Kukup, Pontian
132	FSO Orkid	MVOT	Provision Of De-Rusting & Painting Works; Underneath Helideck'S Structure, Boiler Platform; And Shipside Selected Areas	Jul-24	Offshore, Kelantan
133	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2506	Aug-24	Kukup, Pontian
134	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2403	Aug-24	Kukup, Pontian
135	FSU Tenaga 1 & 4	Eaglestar	Provision of manpower and equipment for Sewage Treatment Plant & Oily Water Separator Maintenance.	Aug-24	RGT, Melaka
136	FSU Tenaga 1 & 4	Eaglestar	Oily Water Separator (OWS) cleaning and maintenance & Bilge Holding Tank (BHT) pumping and tank cleaning	Aug-24	RGT, Melaka
137	ATT Tanjung Bin	ATT Tjg Bin	Manpower, Equipment, Tools and Consumables for Tank Cleaning T-2501	Sep-24	Kukup, Pontian



KEMENTERIAN KEWANGAN MALAYSIA
SIJIL AKUAN PENDAFTARANSYARIKAT

NO. SIJIL : K66217244703050831
NO. RUJUKAN PENDAFTARAN : 357-02245440
TEMPOH SAH LAKU : 18/11/2021 - 13/12/2024

Bahawa dengan ini diperakui syarikat :

ZAR LYNX SDN. BHD. (1118463-M)
NO. 12 & 14, JALAN TAWAK 33/24
SHAH ALAM TECHNOLOGY PARK
SEKSYEN 33
PETALING
40400 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 :

ENCIK ZULIZMAN BIN ABDUL RAHMAN	721103085511	PENGARAH
ASPALELA BINTI RAMLY	730708105524	PENGARAH
PUAN CAROLLYN BINTI GAN	850215125646	SENIOR ADMIN EXECUTIVE/PA

t.t

DATO' ZAMZURI BIN ABDUL AZIZ
Perbendaharaan Malaysia Semenanjung
b.p.Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia:

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)



LICENSE TO SUPPLY PRODUCT/SERVICE TO EXPLORATION AND OIL/GAS COMPANIES IN MALAYSIA

In exercising the powers conferred by Section 7, Petroleum Development Act 1974 and in accordance to Regulation 5 of the Petroleum Regulation 1974, delegated to me by the Prime Minister of Malaysia, I hereby issue the license under Regulation 3 of the Petroleum Regulation for the purpose of the above to:

Certificate generated at: 24.10.2024

ZAR LYNX SDN. BHD. (201401042296)
NO. 76-1 JALAN PEKAKA 8/3, KOTA DAMANSARA, 47810 PETALING JAYA, SELANGOR,
Details of License are as follows:

Company's No	: 201401042296
Type of Company	: License
Duration of License	: 30.09.2024 - 07.01.2028
License Fee	: RM 750.00
Categories of Product/Service	: As attached in 'CATEGORIES OF LICENSE / REGISTRATION'.

Special Conditions impose onto this license:-

Subject to the special conditions as attached.

General requirements of this License are as stated in the next page.

Reminder: License Must Apply For Renewal 4 Months Before The Expiry Date.

PETRONAS LICENSE GENERAL CONDITIONS

- Company is required to register, obtain a license, permit or authorization from the relevant authority to carry out the services or supply of product or material used in company's operation and activities;
- This license is not transferable to any company/other party;
- This license will be revoked if the company is found to be in the process of liquidation, winding-up or dissolution;
- Company shall inform PETRONAS on any changes related to company's position such as equity ownership, board of directors and management staff within **fourteen (14) days**. Failure to do so can result in revoke of License;
- Company should take immediate action to adhere to the special conditions imposed as stated in the appendix of the PETRONAS license certificate and to inform PETRONAS on the progress of this action;
- Company is not allowed to take another company as principal, agent, sub-contractor or otherwise to provide any service or supply of any facility, fittings or equipment on its behalf without prior written consent from PETRONAS;
- Company shall allow PETRONAS representatives for inspection visit / site / company audit and review / copy of documents and interviewing employees and related parties;
- Sub-contract work to another contractor without written permission from PETRONAS.
- Reject any contract or tender awarded.
- Entering or accepting contract or tender during the license suspension period.
- Provide false, inaccurate or misleading information.
- Does not follow tender's regulations and ethics including but not only limited to sending poison-pen letters, bribery or lobbying.
- Engaged in any inappropriate activities with this License.
- According to Act 9, Petroleum Act 1974, a person who initiate or continue any business or continue providing services as mentioned in Act 3 without a license or do not comply with any condition of the license is committing a crime and can be fined not exceeding RM50,000.00 (fifty Thousand Ringgit) or imprisonment for a period not more than two (2) years or both and in respect of each continuous crime, it is subject to further fine of RM1,000.00 (one Thousand Ringgit) for every one (1) day or any part of one (1) day which the offence continues after the first conviction is recorded.
- This approval is not an agreement/guarantee that your company will be called to participate in a tender or quotation of PETRONAS or its subsidiaries.



FGV HOLDINGS BERHAD 800165-P
(Formerly known as Felda Global Ventures Holdings Berhad)

VENDOR REGISTRATION DECLARATION

REGISTRATION REFERENCE NO. : B-1607202400014-02
VALIDITY PERIOD : 16/07/2024 - 16/07/2027

It is hereby acknowledged that the vendors set out below have been registered with FGV HOLDINGS BERHAD and are eligible to participate in quotation / tender offers at FGV Group Companies.

NAME AND REGISTERED ADDRESS

ZAR LYNX SDN. BHD. (Company No. : 1118463-M)
NO. 76-1 JALAN PEKAKA 8/3 KOTA
DAMANSARA, 47810 PETALING
JAYA, SELANGOR, MALAYSIA

CATEGORY CODE IS AS FOLLOW :

CATEGORY CODE	DESCRIPTION	GRADE
01 - Engineering	01 - Civil Engineering	G3
03 - Supply	07 - Chemicals & Laboratory Equipment	
03 - Supply	11 - Factory / Workshop Equipments	

Important:
Application for renewal of certificate shall be made at least 30 days before the expiry date of the certificate.



Issued Date: 16/07/2024



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	:	0120170420-SL187390
Nama Kontraktor	:	ZAR LYNX SDN. BHD.
Alamat Berdaftar	:	NO. 76-1 JALAN PEKAKA 8/3 KOTA DAMANSARA 47810 PETALING JAYA SELANGOR
Daerah	:	PETALING
Tarikh Mula Berdaftar	:	20/04/2017

GRUP	KATEGORI	PENGKHUSUSAN
G3	B	B04
G3	CE	CE21
G3	ME	M15

Tarikh Mula Berkuatkuasa : 14/06/2024
Tarikh Habis Tempoh Perakuan : 12/06/2025
STATUS: AKTIF



Ketua Eksekutif
Lembaga Pembangunan Industri Pembinaan Malaysia
Tarikh: 14/06/2024



SALINAN



SISTEM TENDER ONLINE SELANGOR 2.0 PEJABAT SETIAUSAHA KERAJAAN NEGERI SELANGOR

PENGESAHAN PENDAFTARAN SYARIKAT

Dengan Ini Disahkan bahawa

ZAR LYNX SDN BHD

No. Pendaftaran: 1118463-M

telah berdaftar dengan

**Unit Perancang Ekonomi (UPEN)
Selangor**

pada

02/02/2018

No Pendaftaran	1118463-M
Daerah	Petaling
No Rujukan Sijil CIDB	0120170420-SL187390
Tarikh Sahlaku Sijil CIDB	14 Jun 2024 - 12 Jun 2025
No Rujukan Pendaftaran MOF	357-02245440
Tarikh Sahlaku Pendaftaran MOF	18 Nov 2021 - 13 Dec 2024
Gred	• (G3) KEUPAYAAN TIDAK MELEBIHI RM1,000,000.00 Jumlah Bidang Pengkhususan: 3
Kod Pengesahan Sijil	T7BR2DYJ

Maklumat dihasilkan oleh komputer. Tiada tandatangan diperlukan.
Tarikh & Waktu Jenan: 06/11/2024 18:27:04

Date: 26/08/2024
Vendor ID: VOR-01765

ZAR LYNX SDN BHD
NO. 15, JALAN ANGERIK MOKARA 31/58, KOTA KEMUNING, SEKSYEN 31,
40460 SHAH ALAM
MALAYSIA

Dear Sir/Madam,

Congratulations! Your application with Malaysia Marine and Heavy Engineering Sdn Bhd (MMHE) has been approved.

The registration details are as follows:

Company Name : ZAR LYNX SDN BHD
Vendor Id : VOR-01765
Core Provision :

Following is the detail of your Product / Services Categories:

Discipline	Category	Item
Mechanical (Material)	Package	Hypochlorite Generation System
Mechanical (Material)	Package	Sewage Treatment Plant
Mechanical (Material)	Package	Proximal Water Meter, UV Sterilizer & Desinfectant System
Blasting & Painting	Blasting & Painting Works	Blasting & Painting Works
Marine Transportation & Support Services	Vessel Cleaning Services	Vessel Cleaning Services
General (Service)	Waste Management Services	Waste Management Service
General (Service)	Industrial Cleaning Service	Industrial Cleaning Service
Equipment & Machinery Rental	Rental and Maintenance of Machinery & Equipment (Others)	Pump
Equipment & Machinery Rental	Rental and Maintenance of Machinery & Equipment (Others)	Vacuum Machine
Equipment & Machinery Rental	Rental and Maintenance of Machinery & Equipment (Others)	Water Jet Cleaner Machine

The approval was based on all information provided by your Company. The registration is not an agreement or a guarantee of being awarded contract by MMHE but it serves as an approval of registration of your Company to offer the supply of goods / services to MMHE.

All registered vendors, upon dealing with MMHE, shall strictly comply with MMHE's rules, regulations, policies, procedures and shall adhere to all statutory requirements of the laws of Malaysia. MMHE reserves the right to cancel the Company's registration without giving any notice, reasons due to failure to comply with any of the above conditions and any prevailing procedures of MMHE.

As a Contractor of MMHE, we wish to bring to your attention that you are subjected to Malaysia Marine and Heavy Engineering Holdings Bhd ("MMHB") Code of Conduct and Business Ethics ("MMHB CoBE") which describes the standards of behaviour and ethical conduct that are critical to the success and well-being of the MMHB Group of Companies. In this regard, MMHB expects that such persons will comply with the MMHB CoBE in the relevant parts when performing such work and services.

Please find a copy of the MMHB CoBE publicly accessible at: <http://www.mmhb.com.my/wp-content/uploads/2017/12/MMHB-Code-of-Conduct-and-Business-Ethics-COBE.pdf>

Further to that, with the implementation of MMHB CoBE, there are several policies been introduced namely:

- 1) MMHB No Gift Policy;
- 2) MMHB Whistleblowing Policy; and
- 3) MMHB Anti-Bribery and Corruption Policy;



Boustead Naval Shipyard Sdn Bhd

(A member of Boustead Group)

PERAKUAN PENDAFTARAN

Adalah diperakui bahawa syarikat berikut telah didaftarkan dengan Boustead Naval Shipyard Sdn. Bhd.
Pendaftaran ini tertakluk kepada terma & syarat yang telah ditetapkan.

No. Vendor : 103115
Nama Syarikat : ZAR LYNX SDN BHD
Alamat Perniagaan : NO. 12 & 14, JALAN TAWAK 33/24, SHAH
ALAM TECHNOLOGY PARK, SEKSYEN 33,
PETALING, 40460, SHAH ALAM, SELANGOR

Tarikh Mula Berkuatkuasa : 20-Sep-2023

Tarikh Tamat Tempoh Perakuan : 20-Sep-2025

* Perakuan ini hendaklah diperbaharui sebelum-lewatnya 30 hari sebelum tamat tempoh.

SARIMAH MAT ISA
Pengurus
Pembangunan Perniagaan Komersial & ICP
Boustead Naval Shipyard Sdn. Bhd.

Tarikh : 20-Sep-2023

ZARLYNX COMPANY PROFILE

A Malaysian oil and gas service company
since 2014 providing various solutions