



CORAL ALLIANCE SDN BHD (683936-X)

INTRODUCTION

Coral Alliance Sdn Bhd (Coral) is a Malaysian Bumiputra Company incorporated in March 2005. Coral is licensed with the National Oil Company, Petronas to provide integrated Brownfield services for the oil and gas and petrochemical industries. Coral has strategic offices and service facilities in Kuala Lumpur & Kemaman (West Malaysia) and Miri, Labuan, Bintulu & Kota Kinabalu (East Malaysia). With close proximity to our customers' oil and gas facilities we are strategically placed to offer timely and round-the-clock services.

Coral management team consists of very experienced oil and gas professionals. Our resources are highly qualified and experienced, multi-disciplined engineers and technicians. We provide project management and multi-disciplined engineering services to onshore and offshore oil and gas, refinery, petro-chemical, power and infrastructure Industries.

Our capabilities:

- Topside Maintenance and Hook-up & Commissioning
- Plant and Equipment Operations and Maintenance Services
- Design and Packaging of Engineered Equipment
- Provision of Hot Work Safety Enclosure (H. S. E.) Units
- Proprietary Products and Services
- Marine Services
- Subsurface Engineering Services

Coral has the one-stop capability to assist clients on maintenance, repairs or modification operations both on-site and as well as at our facilities. With a multi-disciplined team, we offer total life cycle maintenance and technical support for various types of equipment in various segments of the oil and gas industries. Coral also provides engineering and construction services with a total commitment to quality, timely job completion with no compromise on health, safety and the environment.

Coral has the reputation for completing our projects in a timely manner with an excellent safety record. To meet the changing market demand, we have been continuously enhancing our capabilities and innovating for new technology. Today, we have earned the trust and confidence of oil major and other customers as well as project partners in the industry as a high quality, value added, integrated services provider.



TOPSIDE MAINTENANCE (TSM), HOOK-UP & COMMISSIONING FOR OFFSHORE PLATFORMS AND ONSHORE PLANTS

Coral Alliance has in-house capabilities to provide integrated design, engineering, procurement, construction, installation, hook-up and commissioning (EPCIC) for total turnkey projects. This single-point responsibility and accountability approach ensures maximum benefits to our clients in terms of cost as well as project turn-around time.

We have a multi-discipline team of engineers from mechanical, structural, civil, electrical, instrumentation, process to piping. We undertake the critical works of hook-up and commissioning for various systems on offshore platforms. These include the electrical & instrumentation systems, structural modifications and structural fabrications, piping including special alloys and hydro-testing, mechanical equipment, firefighting, shutdown and test systems, living quarters and other associated services.

This operation is supported by our own Marine Division which operates and manages a fleet of offshore support vessels that include Anchor Handling Tugs (AHT), Landing Crafts (LCT) and Material Barges.

Coral Alliance key services facilities in Kemaman (Peninsular Malaysia), Miri, Bintulu, Kota Kinabalu & Labuan (East Malaysia) are located in close proximity to the offshore supply bases and clients' facilities, thus enabling smooth operations and excellent logistic support for all our clients.

Our Competencies:

- Engineering Design
- Workpack Preparation
- Front End Project Planning and Development
- Project Procurement, Cost Engineering and Control
- Construction Planning, Management and Supervision
- Onshore Fabrication
- Rejuvenation of Offshore Platforms and Living Quarters
- Onshore Infrastructure and Building Construction
- Hook-Up and Commissioning for Offshore and Onshore Facilities
- Topside Maintenance for Offshore Structures
- Provision of Marine Vessels & Support
- Provision of Construction and Maintenance Equipment and Personnel



PLANT AND EQUIPMENT OPERATIONS AND MAINTENANCE (O&M) SERVICES

Coral Alliance Operation and Maintenance Division is supported by a team of qualified technical personnel. Qualified Service Personnel are trained to service, install or troubleshoot equipment on site.

Coupled with our established service facilities and experienced personnel, we have completed projects of various complexities either on our own or through alliances with foreign equipment vendors to carry out complete plant shutdowns on rotating and static equipment such as turbines, pumps, compressors, engines, gearboxes, fans, blowers, valves, cranes, heat exchangers and other process equipment.

Together with a dedicated team of specialists, engineers and technical personnel, we have the capability to carry out baseline surveys of all cranes and lifting equipment, carrying out gap analysis, inspection services, commissioning and performance checks, mechanical and hydraulic repairs and procedure development.

Coral is working towards certification of our workshop facilities from BASEEFA (EXCB) to provide training and assessment for IECEX personnel competency training and design, installation and assembly of EX-rated equipment and components.

Our Competencies:

- Offshore Pedestal cranes - load test, survey and overhaul
- Re-tubing of coolers, heat exchangers and radiators
- Instrumentation control, systems upgrades
- Repairs and overhaul of:
 - Turbines and compressors
 - Horizontal, vertical and reciprocating pumps
 - Gas and diesel engines
 - Valves and actuators
 - Gearboxes and mechanical seals
 - Electrical motors



DESIGN AND PACKAGING OF ENGINEERED EQUIPMENTS

Coral Alliance has the capability to engineer, design, manufacture and factory test to the client's specification for a number of equipment packages.

To further enhance our capability, Coral collaborates with foreign technology companies especially in the area of Pedestal Cranes, pumps, generators and skid packages.

Coral also offers service technicians to assist clients with the installation, commissioning and testing of the packaged system. One of our key competencies is in the installation of pedestal crane, power pack and boom as well as removal services.

In addition, Coral provides a wide range of maintenance and after sale support services for our engineered equipment packages such as spare parts, onsite service, technical training, control system upgrade, repair and refurbishment.

Our team commitment and dedication to quality assurance and HSE requirements are the foundation of our continued success in securing long term maintenance contracts with our strategic clients.

Our Products:

- Offshore Pedestal Cranes and Portable Cranes
- Centrifugal and Vertical Pump Packages
- Gas and Diesel Generator Packages
- Instrumentation Control Systems
- Chemical Injection Systems
- Air Compressors Packages
- Firewater Pump Packages



HOTWORK SAFETY ENCLOSURE (H. S. E.) UNITS

Coral H. S. E. Unit Division offers the Oil and Gas industries the opportunity to carry out hot work anywhere and at anytime during the year without the need for shutdown. With this innovation, we offer an ergonomic and economic solution to clients and contractors who have to deal with the issue of “hot works” in a hazardous environment.

Coral specializes in the supply and installation of positive pressure flexible enclosures. Typically, the H.S.E. units will be used where there is a requirement to safely execute hot work such as welding, grinding, cutting or sandblasting. The units are mainly deployed on Offshore Production Platforms/FPSOs and within Onshore Petro-Chemical Terminals. We have a comprehensive understanding of platform operations which is invaluable when evaluating and quantifying the hazards and risks associated with simultaneous production and hot work activities. The H.S.E. units have been proven to be a cost effective and operational solution in many applications, and especially in brown field projects such as:

- Repair and maintenance of critical equipment
- Structural modifications
- Piping tie-ins

Some of the successfully executed projects where Coral’s H. S. E. units have been utilized are as follows:

- St. Joseph Compressor A (SJK-A) / Sabah Shell Petroleum Company (SSPC)
- Seligi A / Exxon Mobil Exploration & Production Malaysia Inc. (EMEPMI)
- Lawit / Exxon Mobil Exploration & Production Malaysia Inc. (EMEPMI)
- Jerneh / Exxon Mobil Exploration & Production Malaysia Inc. (EMEPMI)
- Abu Cluster / Petronas Carigali
- Malong / Petronas Carigali
- Tiong Kepong / Petronas Carigali
- Chendol Mopu / FPSO
- Tioman Drilling/ T9
- ENSCO57 / ENSCO Malaysia
- Shell F13-PB/ Sarawak Shell Berhad (SSB)
- COTC / Carigali Hess



OUR PROPRIETARY PRODUCTS AND SERVICES

CORAL ALLIANCE, in partnership with Internationally established companies, hold the Exclusive Dealership in Malaysia for the following products and services:

1. **THERMOFLEX®** is a spoolable, high-pressure composite pipe with advantages over steel for onshore and offshore rehabilitation, maintenance and rapid, low-cost installation.
2. **AQUA-CHEM®** provides Reverse Osmosis, Distillation and Vapor Compression Systems for potable water serving offshore oil & gas and drilling customer around the world.
3. **FRAMES®** specializes in the design, manufacturing, supply, installation and commissioning of complete systems for Oil and Gas Treatment, Separation, Heat Exchanging, Flow Control and Safeguarding.
4. **WIER-FLOWAY®** Vertical Turbine Pumps and **HAZLETON®** Specialty Slurry Pumps are recognized worldwide for superior quality, top hydraulic performance and long service life.
5. **MESABI®** Flexible-Core Heat Exchange Systems. MESABI replacement and Custom Radiators are for all Heavy-Duty, Diesel engines, off-road and stationary equipment include air-to-oil and air-to-air coolers, charge-air and tube & shell coolers.
6. **ORANGE® INSTRUMENTS** supply bespoke Control Systems to the Oil, Petrochemical, Gas, Coal, Nuclear, Food and Beverage, Water Treatment and Household Product sectors of the Continuous Process Industry.
7. **BRIDON®** provides a comprehensive and competitive range of solutions in steel wire, wire and fibre rope and strand.
8. **HELMSION ENGINEERING®** specializes in the design, procurement, fabrication, modification, installation and marketing of a wide range of cranes, hoist and lifting equipment for Asian Pacific Industrial Automation.
9. **IPD®** offers a wide range of replacement and rebuilt components for Caterpillar® engines applications and has focused on helping equipment owners save money without risk to reliability.



LOCATIONS OF FACILITIES IN MALAYSIA



WEST MALAYSIA:

Corporate Office

Menara UOA Bangsar,
18th Floor Unit A-18-1,
59200 Kuala Lumpur,
Malaysia.

Kemaman Office / Workshop

PT 6864, Ground Floor, Bukit Kuang Business Business
Centre, Kg. Bukit Kuang, 24000 Kemaman, Terengganu
Darul Iman.
Tel: +609 8591901
Fax: +609 8592901

EAST MALAYSIA:

Kota Kinabalu Office / Workshop / Yard

Lot No. 33A, 3rd Floor, Block F,
KK Times Square Off Coastal Highway,
88000 Kota Kinabalu,
Sabah.
Tel: +6088-234911
Fax: +6088-234811

EAST MALAYSIA:

Regional Office

Lot 1316, 3rd Floor, Miri Waterfront Commercial Centre,
98000 Miri, Sarawak.
Tel: +6085 419711 / +6085 429711
Fax: +6085 438711 / +6085 421711

Miri Workshop

Sublot 2425, Lot 9041, Block 4, MCLD, Jalan Cattleya 3,
Piasau Industrial Estate, 98000 Miri, Sarawak.
Tel: +6085 664713 / +6085 659713
Fax: +6085 655719 / +6085 668719

Bintulu Office / Workshop / Yard

Lot 3154, Block 26, Kemena Land District, Kidurong
Light Industrial Estate, Phase 1, 97000 Bintulu, Sarawak.
Tel: +6086 254717 / +6086 255717
Fax: +6086 254711 / +6086 251711

Labuan Office / Workshop / Yard

Block No.4, Ex-Marine Department Workshop Complex,
KM 9, Jalan Ranca-Ranca,87000 W.P.Labuan,Malaysia.
Tel: +6087 581712
Fax: +6087 581713