# DTEC MARINE AND HEAVY INDUSTRIES PTE. LTD. (DMHI)

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**MAJORING IN OFFSHORE PIPELINE COMMISSIONING, PROCESS PLANT COMMISSIONING, START UP AND OFFSHORE HOOK-UP AND COMMISSIONING**

# COMPANY OVERVIEW

## DMHI is an certified international company with locations across Australia, Indonesia and Philippines

It is our company philosophy to embrace and promote a culture where health, safety, and environmental management are integral components of every work day. Service quality is front and center in all aspects of our business; we take pride in providing safe, quality services to the energy industry and focusing on the needs of our clients. A thorough understanding of our customers, their processes, and the problems they face is key to our accurate and thoughtful problem solving.

By focusing on surpassing the needs of the customer, DMHI is constantly striving to achieve the best, and as a result we have gained international recognition for our performance. This recognition allows our clients a level of ease in knowing they have chosen a company that ensures success is a global focus. It is our goal to continue on our path of solid growth—while maintaining the highest quality—to become the leading independent provider of pre-commissioning and maintenance services globally.

# History

DMHI was founded by four experts in the industry who shared a common belief that pre-commissioning could be done in a much more efficient way. While working for major international service providers—starting in field positions and progressing through to various management positions—they discovered that while other companies offered a number of pre-commissioning services, there was no company whose true specialization and core business was mechanical pre-commissioning.

DMHI was incorporated in 2007 and began operations in the spring of 2008 with a staff of seven in Queensland, Australia and subsequently to Indonesia and Philippines, Singapore and Malaysia.

DMHI with our partnering company DTEC Petroleum Group, we had formed as new entity of DTEC Petroleum Sdn. Bhd. in the year 2012, mainly to serve the East Malaysia Offshore Services in the field of commissioning and pre commissioning and hook-up commissioning.

# VISION

GLOBAL

TECHNOLOGY ADVANCEMENT

The company's long term vision is to be recognized as a worldwide complete systems and solution provider in pipeline commissioning and hook up commissioning services.

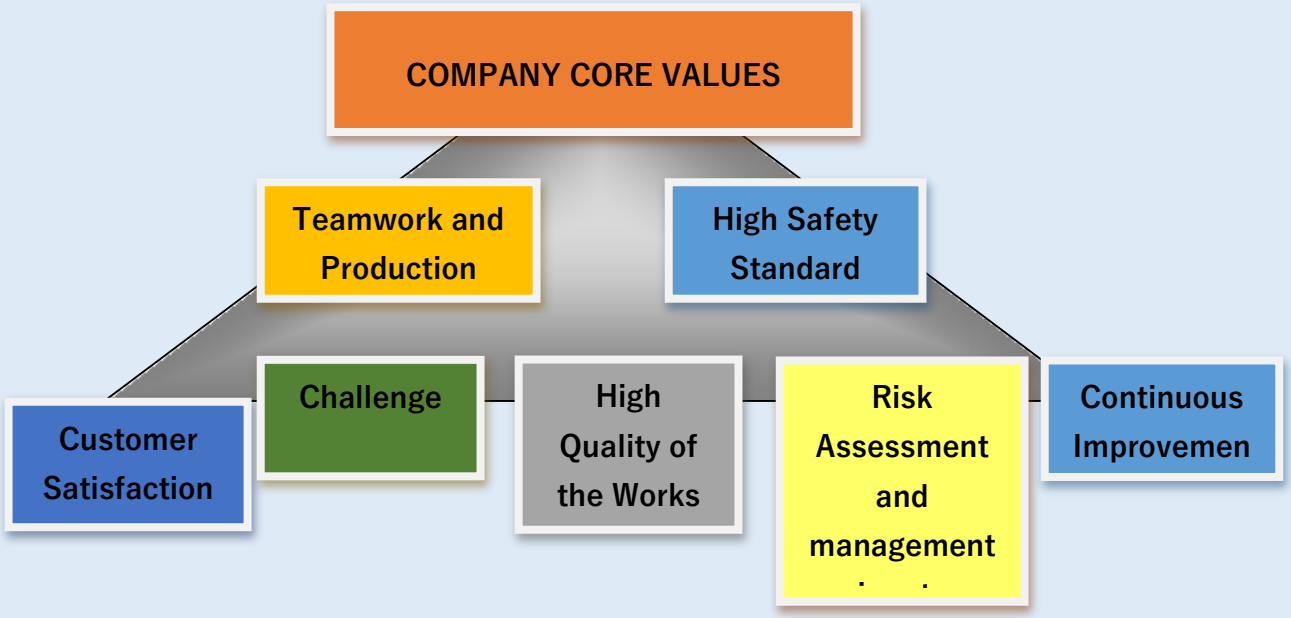
DMHI will assist our global customers all the way from the design stage through product and customer support up to providing global service network. Whatever your project, whenever and wherever you are planning it; we can provide the energy to make it work and service provider for Oil & Gas, petrochemical & power plant construction works.

# MISSION

DMHI is equipped with the innovation, capabilities, and resources to meet any demand on-time, with high integrity of health safety and environment which adds together with the quality and within the time frame.

Our Mission :

- To be the best source of total service provider for engineering and construction
- To provide excellence in working environment for all employees
- To earn loyalty and business from both our plant owners and customers




# COMMISSIONING AND SAFE PLANT START UP

Our clients achieve safe plant startup and efficient maintenance and shutdown programs every single time. DMHI is an innovative multinational oilfield services company providing an integrated services platform to the energy industry with detailed engineering, custom chemistries, and expert field execution services.

Because pre-commissioning and turnarounds aren't events that happen at your facility every day, our goal has always been to focus on and specialize in reducing the impact these critical activities have on your business. We have developed a unique perspective on the design and planning of your next pre-commissioning or shutdown activity: all of our experience is concentrated on the recurring problems that take place during these often problematic projects and by applying our experience early our engineers can identify and delete problems that cause unnecessary costs prior to start up.

Our commitment to innovation is supported by our research and development team. Using some of the most brilliant minds in our industry to examine the pre-commissioning and shutdown processes has allowed us to continuously improve in both the services we provide and in the way your perform.

## PRE-COMMISSIONING, COMMISSIONING SERVICE

DMHI offers properly engineered, high quality services, delivered to our clients by our experienced and professional personnel to the highest industry standards. Our services revolve primarily around pre-commissioning, commissioning, and regular maintenance servicing events. Specifically, DMHI provides an integrated services platform to the energy industry with the following service requirements:

- Steam Blowing
- Air Blowing
- Oil Flushing
- Chemical Cleaning
- Nitrogen Services
- Fluid Pumping
- Filtration
- Fluid Heating
- Pipeline Pigging and Testing

## Steam Blowing

When pipe is fabricated during hot working, a heavy oxide layer forms. This layer is known as mill scale and must be removed from critical systems before putting them into service.

Over time, enhancements have been made in plant start-up techniques to perform engineered steam blows that remove mill scale. During a steam blow, the piping is blown with sufficient boiler pressure to ensure that enough dynamic pressure will be experienced in the pipe to provide adequate cleaning.

During any plant start up, there's a possibility that particles left in the pipe from the construction phase could break loose and travel downstream. These particles can damage instrumentation and impede other plant operations. Typically, boiler pressures used in steam blowing provide a dynamic pressure throughout the piping that is at least 20% higher than would be experienced in normal operating conditions (CFR ≥ 1.2). Any potentially damaging particles will be blown out of the piping prior to plant operation.

## Steam Blowing

The time taken for an object to travel through the system and be ejected cannot be calculated. Instead, a technique of detecting particles in the emerging steam blow is used. This technique checks the emerging steam for particles impacting on a polished metal plate (commonly known as a target).

The steam blow method is similar to the exhaustive air blow technique, but the boiler is fired to generate the pressurized steam used to clean the steam path. Specialized quick opening valves and a detailed procedure, along with the design of temporary spools, steam quenching devices, silencers, and debris containing equipment are required to perform this service.

For pre-commissioning, a continuous low-pressure steam blow technique has become standard practice for cleaning most steam system circuits. This method requires the steam generators to be continuously fired to generate steam velocities that are five to seven times greater than the velocities generated during normal plant operations.

## Air Blowing & Alternate Air Services

Compressed air can be used in a variety of applications within the energy and petrochemical industries. Applications include air blowing for the cleaning and commissioning of new facilities or build systems, drying pipelines and systems following hydro tests, pressure and leak testing, and heating and cooling of systems.

## Air blowing

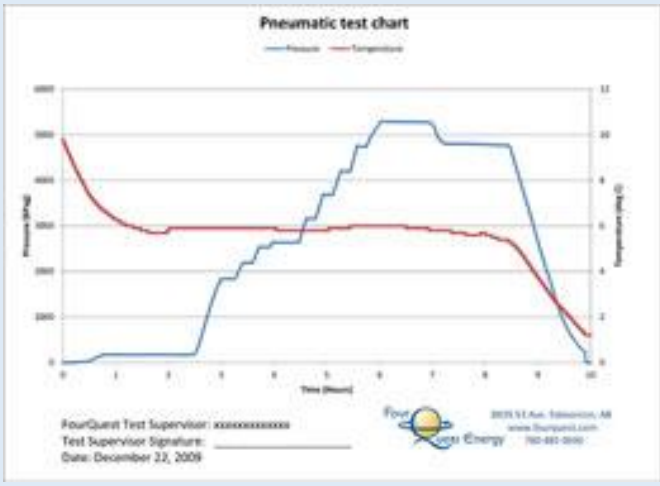
Engineered air blowing is an efficient way to remove construction debris, loose rust, liquids, and other contaminants from process piping. Every air blow procedure is specifically engineered for the individual system being cleaned. This approach provides numerous benefits for our clients, including time effective execution by efficiently sequencing the blows, thorough cleaning guaranteed by achieving an optimal cleaning force of at least 1.5 (CFR > 1.5), and safe field execution through following the best industry practices.

Decompression air blowing involves pressurizing the system or an additional volume to a predetermined and engineered pressure so that operational forces during the process will be exceeded. Once the predetermined pressure has been reached, the pressurized portion of the system is decompressed into a specialized collection and noise reducing receiver. For continuous air blowing, the system is subjected to a continuous stream of air at a predetermined and engineered flow rate until the client's desired cleanliness specifications have been met.

## Drying pipelines and systems:

Compressed air can be used for system dehydrating and dewatering. Following completion of a successful hydro test, pipelines are dewatered and prepared for use. Gas and finished product pipelines must be cleaned and dried prior to the introduction of the product to be transported. Compressor spreads can provide large volumes of -80˚C dew point air, which, combined with foam pigs and brush pigs can clean and dry pipelines to a very high standard. This service can be used in conjunction with air blowing.

## Pneumatic testing and leak testing:




Compressed air can be used to provide pneumatic testing on newly constructed or modified systems. PETROTEC also provides stored energy calculations for pneumatic tests. For example, hydrogen reformers must be tested prior to operation, and stored energy calculations can be used to determine safe distance limits during the test.

Pneumatic testing is used when a hydro-test fluid may place too much weight on the piping or damage a coating. It is also used for boiler tubes that must remain dry prior to operation where it would be impossible to drain any liquid after a conventional hydro-test.

Compressed air can also be used for checking a system's integrity by confirming the absence of leaks and passing valves. Integrity testing can be done in conjunction with air blowing. During the pressurization of the system for decompression blowing, the system can be observed for leaks or valve passing.

## Chemical Cleaning:

We do provide the chemical cleaning works as a part of the pre commissioning works for the special material pipes and alloy piping's with varies type of methods

**Nature of work:**

**1) Engineering and Design**

- Perform all associated engineering and design work required to perform the task.
- All rotation equipment provided shall be spared to ensure any mechanical failures during the work will not jeopardize the integrity and associated piping, electrical and instrumentation.
- To present execution plan.

**2) To system looped all line and preparation for chemical cleaning**

- Dismantling pipe valves.
- Fitting and socket preparation.
- Hoses preparation.
- Line check for winches.

**3) Chemical cleaning**

- To define the connection points, the temporary connections and piping work.
- To provide all auxiliary equipment's such as pumps, storage tanks, chemicals, generator, circulation tanks, circulation pump which required for the cleaning activities.
- Chemical preparation for acid pickling and passivation process.
- Circulate systems per systems looped with acid for pickling process.
- Neutralization and prepare for passivation process.
- Circulate with passivation chemical, drain and nitrogen blow.

**4) Waste water treatment**

- Treated and disposal of all the waste produced during the cleaning processes.
- Treated and disposal of all the waste produced during the cleaning processes.
- To provide temporary storage including consumables until completion of disposal of waste.
- The waste shall be dispose to Kualiti Alam.


## System heating and cooling:

Compressed air can be used for system heating and cooling. For heating, air heated during the compression process is used to heat the system to temperatures up to 100°C. By heating the system, it can be tested for expansion ability and any faults can be identified and repaired prior to operation. Compressed air heating can also be used for preheating the system or vessels before operation.

For cooling with compressed air, the air can be introduced to the system or a hot process vessel at a predetermined flow rate to cool it down as the client requires.

## Other General Services Include

- Removal of construction debris and velocity cleaning
- Pre-heating, heating, and cooling of process vessels, reactors, and systems.
- De-watering and Drying
- Pigging and Drying pipelines
- Pipeline Pre-packing
- Pneumatic Pressure Testing
- Leak Testing
- Pre-tensioning Pipelines

## HSE Culture

**Creating a safe and healthy environment is part of our company's culture.**

We strive to prevent all incidents through the active education and engagement of our employees. We base our safety culture on our own experiences and the best practices in our industry.

Our organizational culture is centered on the following attitudes, values, and beliefs that are demonstrated in the workplace on a daily basis:

- Respect
- Appreciation
- Employee involvement
- Support for work-life balance

## Working Conditions

Working safely is a requirement of employment with PETROTEC, and that means complying with legislation, policies, standards, and procedures. Our employees must not only complete all mandatory safety courses, but are also encouraged to recommend and attend all applicable safety training courses available to our industry.

## Pipeline Pre commissioning and Commissioning Services

DMHI has been involved in the pipeline construction industry for almost three decades and has amassed an extensive track record of projects from all over the world covering onshore and offshore, oil and gas, large and small diameter pipelines. In recent years, projects have expanded to include work in deep water environments such as Australian, Indonesia and the Philippines with unique new technologies being born from the extreme challenges posed from these deep water markets.

DMHI provides the complete suite of pipeline pre commissioning and commissioning services under a single project management team in order to provide enhanced safety, quality and schedule performance on any project. The services available from Halliburton are as follows:

## Pipeline Flooding

DMHI can flood (or fill) pipelines of any diameter from 2 in. to over 56 in. over distances of hundreds of kilometers. Our filtration and chemical injection systems have the capability and flexibility to meet your project's most demanding requirements for water quality and treatment.

## Pipeline Gauging

Proving a pipeline has not been buckled, dented or otherwise damaged during construction activities requires passage of a gauging tool through the pipeline. We provides gauging tools to meet your most demanding project specifications. In addition, We has developed unique technology that can be used in conjunction with conventional gauging tools to monitor the distance travelled, velocity and pressures to more accurately determine the location of any detected damage.

## Hydrostatic Testing

DMHI provides controlled pressurization and monitoring of testing operations using equipment supplied from our fleet of specialized pumping equipment. Pipeline test pressure is typically held for a period of 8 to 24 hr with calibrated instrumentation recording both pressure and temperature throughout the test period.

Commissioning and start-up is the final step before production runs in a processing plant. AMG, Inc., is uniquely poised to perform commissioning and start-up and the accompanying trouble-shooting and problem-solving activities, whether as part of a design/build project or as a final step in an ongoing project. Essential tasks include:

## COMMISSIONING & START-UP PREPARATION

Understanding that each project/process is unique, the AMG, Inc., staff takes the following approach:

- Meet with client to determine specific needs & concerns Create a customized checklist based on the client's needs Assemble all information collected during the project's planning, design, & construction Sort project data from the Intelligent P&ID design database into the appropriate areas: Equipment Piping Valves Instrumentation.

## PIPING CHECK-OUT

An AMG, Inc., team will perform a walk-down in addition to functionally testing the entire piping system. Activities include:

- Confirm complete installation of all required parts Perform hydro test Perform pressure test Problem-solve all issues with gaskets, welds, & valves Perform system cleanout
- Caustic wash/surfactant to remove oil, grease, & other contaminants
- Detergent flush
- Acid wash to complete the cleaning process & remove elemental iron from stainless steel surfaces
- Visually inspect tanks & piping to verify that clean-in-place (CIP) systems are adequate Perform system passivation Chemical wash to protect cleaned stainless steel from chloride attack

## SYSTEM STERILITY

Initially, a system is sterilized by direct injection of low-pressure steam. Equipment, piping, and sterile barrier surface temperatures are checked and documented.

When necessary, a sterility challenge is performed. The system is inoculated with sterile media, and bacteria growth is monitored for several days. If contamination occurs, the system is completely disassembled and inspected to identify the root cause.

Sometimes, the system later shows evidence of contamination after a successful sterility challenge. AMG, Inc., can be called in to identify the source of contaminants and suggest actions that will prevent future contamination.

What can cause repeated contamination of a previously sterilized production system? Examples include:

- Equipment design or maintenance Staff procedures or practices Stainless steel integrity Sterilizing equipment failure Clean-in-place equipment failure Building contaminants, such as airborne particulates & organisms

## MECHANICAL COMPLETION AUDITS

The audit includes such activities as:

- Confirm correct equipment installed Confirm correct installation procedure for each piece of equipment Check type & amount of lubrication Check rotation

## ELECTRICAL & INSTRUMENTATION CALIBRATION & CHECK-OUT

Since many new processing plants install state-of-the-art control systems such as DeltaV™, commissioning and start-up include such activities as:

- Check hardware, including wiring, to ensure that each motor starts from the correct motor control center (MCC) Check software addressing to ensure each motor & instrument responds from the correct icon on the display Start all pieces of equipment Check power supply & functionality Check safety & software interlock sequences using AMG, Inc., written documentation and/or Client-written documentation reviewed by AMG, Inc.

- Perform system trial runs with water or sacrificial product Tune process control loops, such as temperature, pressure, flow Train operators Perform turn-over.

## EQUIPMENT TROUBLE-SHOOTING

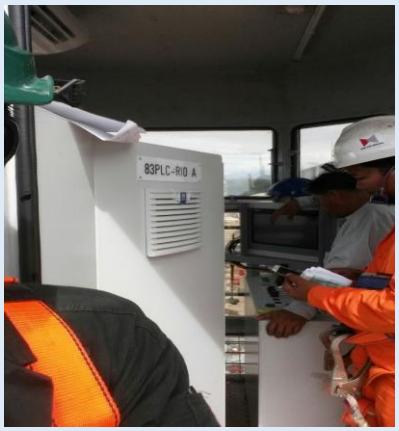
AMG, Inc., has a broad base of know-how related to equipment design, installation, and operation. Understanding how a piece of equipment should function in a specific process environment allows outstanding problem-solving to occur for such equipment as:

- Bulk conveying Pneumatic conveying Aspiration Cookers Centrifuges Screening Pressing Fermenters Evaporators Dryers Pumps Heat exchangers Solvent extraction systems Wet processing systems Dry processing systems
- Complete Electrical and Instrument Project Engineering, Estimating and Scheduling for new installations and/or modifications of existing systems.
- Upgrading existing control systems from conventional electronic or pneumatic control to Distributive/PLC control, with minimum loss of production.
- Field survey of existing process and the providing of P&ID’s, Loop Diagrams

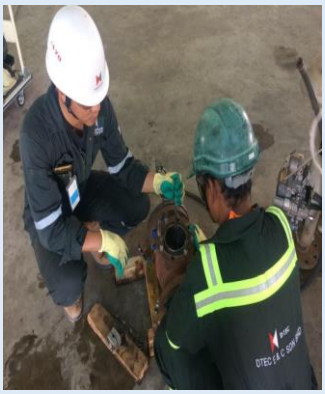
and Motor Elementaries of existing systems with recommendations of improvement.

- Providing field engineers and technicians for monitoring new installations and for checkout and start-up, including calibration and PLC and DCS configuration.
- Providing construction coordination including Purchasing Agents, Expeditors, and Schedulers.
- Diagnosing, trouble-shooting and verifying fail-safe design of new and/or existing safety systems such as Flame Safety on Lime Kilns and Boilers.
- Main Substation Planning
- Electrical Power Distribution Systems
- Single Line Electrical Diagrams
- Indoor/Outdoor Lighting
- Electrical Floor Plan Layouts
- Fire Protection & Security Systems
- Motor Control Center Layouts
- Branch Circuit Layouts & Panel Scheduling
- Logic & Ladder Diagrams
- Motor Elementaries
- Control Panel Layouts
- Control Room Layouts
- Instrumentation Loop Diagrams
- PLC & DCS Configuration
- Programmable Controller Field Wiring Diagrams
- Computer Room Design
- Voltage Drop, Fault Current, and Coordination Studies
- Electrical & Instrumentation Check-out & Start-up
- System Trouble Shooting
- Existing System Documentation
- Procurement, Electrical & Instrumentation
- Feasibility Study
- Cost Estimating

## Hook Up Commissioning




## Valve Maintenance



# Valve Maintenance, Servicing, Calibration & Recalibration

On Site Valve Servicing

Actuator Retrofitting

Valve Lubrication (Greasing) & Sealant

Valve and Actuator Maintenance

## Specialized Services

Fugitive Emission Test (FET)

Manufacturer's Painting

Positive Material Identification

Torque Measurement

Troubleshooting

Online Safety Valve Testing (OSVT)

Hydraulic Torquing

Gate & Plug Valve Lapping Machines

Safety Valve & Control Valve Servicing and Testing

Valves Testing Equipment

# ONGOING PROJECT

| Item | Name of Contract | Description | Client | Start Date | End Date |
|---|---|---|---|---|---|
| 1 | DLP Contract : Maintenance during defect and liability period (DMHI / DTEC JV) | Civil, Mechanical, E & I, Valce Services Works | Mitsubishi Heavy Industries Ltd. | 04-May-15 | Ongoing |

# COMPLETED PROJECTS (DMHI / DTEC JV)

| Item | Name of Contract | Description | Client | Start Date | End Date | Dura | % Completion | Project Value (RM) |
|---|---|---|---|---|---|---|---|---|
| 1 | Main Contract for Mechanical & Electrical Works (DMHI / DTEC JV) | Mechanical, Electrical Instrumentation & Hook Up Commissioning Works | Mitsubishi Heavy Industries Ltd. | Jun-2016 | 2017 | Completed | 100% | 4,500,000.00 |
| 2 | Supply of Internal Combustion Engineer (ICE) (DOSH Approved) & Steam Engineers (DMHI / DTEC JV) | For Turbine and Boilers | Mitsubishi Heavy Industries Ltd. | 01-Jul-15 | 2017 | Completed | 100% | 350,000.00 |
| 3 | Main Contract for Commissioning Services & Plant Start Up (DMHI / DTEC JV) | Mechanical / Partial Shut Down / Equipment Commissioning + Instrument and Hook Up Works For Urea Ship Loading | Mitsubishi Heavy Industries Ltd. | 2017 | | Completed | 100% | 1,500,000.00 |

# COMPLETED PROJECTS (SOUTH EAST ASIA)

| Item | Name of Contract | Description | Client | Dura | % Completion | Project Value |
|---|---|---|---|---|---|---|
| 1 | Hook-Up and Commissioning for Bintulu Onshore Receiving Facility (BORF) For SK 309 / 311, Phase 1, Gas Development Project – Client : Murphy Oil, Project as Joint Venture between Petrotec / Valco JV (for HUC) | Hook-Up and Commissioning for Bintulu Onshore Receiving Facility (BORF) For SK 309 / 311, Phase 1, Gas Development Project | Murphy Oil | Completed | 100% | RM 1,300,000.00 |
| 2 | Project (Works Onshore and Offshore) – Commissioning of Piping System, Equipment's and DCS Hook Up | Melor Phase 1, Project (Works Onshore and Offshore) – Commissioning of Piping System, Equipment's and DCS Hook Up | Murphy Oil | Completed | 100% | RM 854,000.00 – Lump Sump Contract |
| 3 | Commissioning of Offshore SBM Equipment's and Checking overhaul procedure and inspection of SBM | Single Buoy Mooring (SBM– Commissioning of Offshore SBM Equipment's and Checking overhaul procedure and inspection of SBM) | Kencana HL Sdn BHd | Completed | 100% | 950,000.00 |
| 4 | Commissioning Main Boiler System and Steam Piping as well as Electrical and Instrumentation | Santa Rite 1000MV CCPP, Batangas City (Commissioning Main Boiler System and Steam Piping as well as Electrical and Instrumentation) | Sime Engineering (PHP) | Completed | 100% | USD 2,950,000.00 |

# COMPLETED PROJECTS (DMHI MALAYSIA)

| Item | Name of Contract | Description | Client | Start Date | End Date | Dura | % Completion | Project Value (RM) |
|---|---|---|---|---|---|---|---|---|
| 1 | Full Blasting and Painting of 4 Unit of Work Barge Including Structure Repair | Setting up Blasting and Painting facilities, Procurement of Pain and Abrasives Material, Scaffolding and Staging Works, Removal of Pumps and Valves, Blasting the Painting for entire vessel, Reinstatement of mechanical component | BLC+UC Marine (Aust) Pty Ltd | Jun-13 | Mar-14 | 304 | 100% | 2,150,000.00 |
| 2 | Provision of Manpower for Engine and Mechanical Components Installation for Work Barge | Preparation of Mechanical Laydown Area, Identification of Mechanical Components like valves, gaskets, pumps, piping and fittings and Instruments, Scaffolding and Staging Works, Installation of Engine and Mechanical Components, Localized Grit Blasting and Painting Works, Realignment of Anchor System | JD Wyne Smith Offshore Services, UK | Dec-12 | Sept-2013 | 305 | 100% | 1,150,000.00 |
| 3 | Fabrication, B&P, Installation Floor Deck of Working Barge | Steel Structure Fabrication & Installation, Blasting & Painting Work, Installation of Cranes and associated works on the working barge, Supply, Fabrication and Installation and Commissioning of the Fire Water System (FWS) for Work Barge | JD Wyne Smith Offshore Services, UK | Jun-12 | Jan-13 | 245 | 100% | 2,750,000.00 |
| 4 | SWHE Platform for Daewoo International (E&C) Mynmar | Provision of Manpower of Manpower Supply (Skill Workers) for the Pipeline Works for Platform Pipeline 126.5KM (Including Equipment and Consumables Supply) | Hyundai Heavy Industries Co. Ltd | 2010 | 2012 | Completed | 100% | 2,230,000.00 |
| 5 | Forcados Yokri Integerated Project (Process Plant) Upgrading Existing Flow Station & Utility System, New Central Compressing Plant and Central Process Facilities for Shell Petroleum Development Company, Nigeria | Provision of Manpower of Manpower Supply (For Valve Overhaull, Maintenance, Repair and Servicing) For Defect and Liability Period / Maintenance Contract. | Hyundai Heavy Industries Co. Ltd | 2009 | 2010 | Completed | 100% | 1,570,000.00 |
| 6 | Yadana MP Compression Platform Development for Total E&P Myanmar | Provision of Manpower, Equipment, Tools and Equipment's and Consumables (Fabrication and Installation) including Testing and Commissioning of Compressor Main Piping, Lube Oil Piping including Support Fabrication (Piping 5250 Dia In and Pipe Support (780 MT) and Steel Structure (1550MT) for Platform and Pipe Bridge and Pile | Hyundai Heavy Industries Co. Ltd | 2008 | 2009 | Completed | 100% | 8,561,000.00 |
| 7 | Provision of Manpower, Equipment and Machinery for Hook Up Commissioning of Metering Maintenance for Topside Maintenance Service | Manpower, Equipment and Machinery for Hook Up Commissioning of Metering Maintenance for Topside Maintenance Service | KPOC | 2015 | | Completed | 100% | 1,100,000.00 |
| 8 | Badamyar Gas Development for Total E&P Myanmar | Provision of Manpower, Equipment, Tools and Equipment's and Consumables (Fabrication and Installation) including Testing and Commissioning of Piping, including Support Fabrication (PIPING PACKAGE 1:4 (D) Piping 15850 Dia In and Pipe Support (930 MT) and Steel Structure (PACKAGE 4:3:1 (D) (4550MT) for Platform and Pipe Bridge | Hyundai Heavy Industries Co. Ltd | 2013 | | Completed | 100% | 28,668,000.00 |

| Item | Name of Contract | Description | Client | Start Date | End Date | Dura | % Completion | Project Value (RM) |
|---|---|---|---|---|---|---|---|---|
| 9 | Provision of Manpower, Equipment and Consumables for Single Point Mooring Buoy Modification and Part Replacement including blasting and painting | Decommissioning of SPMB Unit (Manpower Supply ONLY), Transportation for Labuan Offshore Water to Labuan Shipyard (By OTHERS / Manpower by DTEC),<br><br>Minor Fabrication and Modification Works, Replacement of Parts such as Clamps, Swivels and General Cleaning Works, Grit Blasting and Painting Works | Kencana HL Sdn Bhd | 2013 | | Completed | 100 % | 680,000.00 |
| 10 | Engineering, Procurement, Construction and Hook Up Commissioning of Central Diyarbekir Jacket, Drilling Platform and Top Side (CDDA-A) with Process Facilities | Instrumentation and Hook Up Commissioning, Fabrication and Installation of Cable Trays / Ladder, Control Cable Laying, Gladding's, Terminations, Loop Test and Installation of Other Instrumentation Equipment's and Devises, Valve Servicing, Maintenance including Calibration of Valves | NNPC | 2011 | | Completed | 100 % | 1,350,000.00 |
| 11 | Temporary construction facilities, earthworks, engineering and design, fabrication, E&I, topside integration, jackets integration, pile fabrication, blasting & painting, mechanical completion, testing & commissioning, load out, sea fastening, hook up & commissioning | Manpower, Equipment and Consumables supply for 600MT of Main Structure Modification, Installation of All Instrument Components (Tubing, Transmitters, Valves, Gauges), Valve Servicing, Maintenance including Calibration of Valves | NNPC | 2011 | | Completed | 100 % | 3,800,000.00 |

# CONTACT INFORMATION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