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About GOGS

GOGS was born in Geoje island, Republic of Korea in 1994 as Engineering solution provider, where two major Shipyards, SHI and DSME are located, which has grown to operate overseas offices for 24 years.

We carry out the consultation not only Engineering Management (Commercial ship, Offshore, Onshore, Wind Power) but also other sectors including Project Management, Construction Management (Trouble Shooting, Mechanical Completion, Commissioning, etc.), Contract Management (Risk Assessment), Procurement (Equipment and Material Management, etc.) and Trading business.

We develop customer-oriented solutions, provide more competitive, select and concentrate on services laying a foundation for becoming a leading solution provider.

Whatever how large or small the projects are our role is on the project and target is to exceed our Clients’ expectations in every way possible and helping to complete the project on-time, within budget and with the highest quality possible.

Construction is always complicated and sometimes beyond our expectation, but our goal is pretty clear: understand our Clients’ NEEDS and OBJECTIVES, and make a full commitment to every project in which we are involved.

Our future is defined by the success of Clients’ Project.

Vision & Strategy

Global Leading Provider of High-Value Engineering & Construction Solutions

Company History

1994  Start-up the Commercial Ship Engineering business as Subcontractor of SHI
2005  Start-up of Offshore Engineering & Ship Construction Consulting
2006  Opened China Branch Office & Subsidiary Company (Yantai)
2014  Launched R&D Center
2016  Opened Japan Branch Office (Nagasaki) Start-up of Commissioning
2017  Start-up of Sox Scrubber, Retrofit & Ship Repair
2018  M&A Daesung Trading Company and Opened China Branch Office (Dalian) SOx Scrubber Retrofit Engineering (30 Vessels)
QHES Philosophy

We recognize Health, Safety and Environment management for all of its employees as being one of the most important facets of the Clients' overall management and implement HSE Management System according to the requirements of related regulations ISO 14001 and OHSAS 18001 with strong commitment to take the social role and responsibility in order to make Incident, illness free and eco-friendly working environment.

Seeking to provide the services that customers demand in a preemptive and proactive manner through systematic and innovative quality management, we established quality management activities to set and implement quality targets and action plans for each project which related regulations, ISO 9001.

QHSE Policies:

- Identify customer’s requirements and deliver to the agreed standards.
- Provide a safe working environment and ensure that the appropriate resources are assigned to all working areas.
- Protect the environment we work in.
- Quality system is maintained and reviewed on regular basis.
- Achieve a ‘Zero Incident target.
- Set maintain high standards of Health and Safety at every working area.
- Monitor environmental performance to ensure compliance with this policy and with legal requirements.
- Comply with applicable local laws, legislations, codes of practice and international HSE standards.
# GOGS Business Scope

<table>
<thead>
<tr>
<th>Engineering</th>
<th>Construction Service</th>
<th>Trading Service</th>
<th>General Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>New &amp; Repair Ship Design</td>
<td>Sox Scrubber &amp; BWTS Retrofit</td>
<td>Ballast Water Treatment</td>
<td>Technical Consulting Service</td>
</tr>
<tr>
<td>Plant Detail Design</td>
<td>Ship Repair Work</td>
<td>Emergency Generator</td>
<td>Manpower Supply</td>
</tr>
<tr>
<td>Plant Production Design</td>
<td>New Ship building</td>
<td>Provision &amp; E/R Crane</td>
<td>packing &amp; Logistics</td>
</tr>
<tr>
<td>Off Shore Modification Design</td>
<td>Punch &amp; Modification Work</td>
<td>Cargo Oil Pump</td>
<td>Shipping Agent</td>
</tr>
<tr>
<td>Sox Scrubber &amp; BWTS Design</td>
<td>MC processing &amp; Commissioning</td>
<td>F.O &amp; L.O filter</td>
<td>Rental Service</td>
</tr>
<tr>
<td>Module &amp; Package Design</td>
<td>Package/Skid Modular</td>
<td>Fresh Water Generator</td>
<td>Raw Materials</td>
</tr>
<tr>
<td></td>
<td>Engine Repair Service</td>
<td>Propeller</td>
<td>Procurement</td>
</tr>
<tr>
<td></td>
<td>Fabrication &amp; installation</td>
<td>Anchor &amp; Anchor chain</td>
<td>- Material &amp; Equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Fabrication Item</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Spare Part</td>
</tr>
</tbody>
</table>
Our formula is: to provide one stop engineering service to our Clients including all disciplines of Structure, Piping, Outfitting, Electrical and Instrumentation, Nautical, Accommodation, Piping Diagram and Electrical principle Diagram and 3-D Modeling of all disciplines.

- **Commercial Vessel Basic, Detail, Production Engineering**
  - Crude Oil / Bulk / Chemical / Tankers / LNG / PCTC / Supply Vessel / AHTS / Tug Boat / Car ferry / Passenger Vessel

- **Offshore Products Detail, Production Engineering**
  - TLP / Jack-up / Semi-Submersible Rigs / Platform / Drillship / FPSO / FLNG

- **Sox Scrubber & BWTS Retrofit Engineering**
- **Ship Repair Engineering**

- **Modification & Upgrade Engineering**
- **Commissioning procedure**

- **Onshore Plant Detail, Production Engineering**
  - Power / Chemical / Oil & Gas Plant)

- **Technical Consulting & Supervision**

- **Software & Tools**
  - 2D/3D Program : Autocad, Tribon, PDMS, SP3D, AM, TEKLA
  - Analysis Program : SACS for stress analysis Nastrom FX
  - for FEM analysis, Inventor for 3D design

---

### Structure
- Structural Analysis
- Basic & Detail
- Shop Drawing
- 3D Modeling

### Piping
- P & ID
- Arrangement
- Installation
- Fabrication
- 3D Modeling

### Outfit. / Mech
- Vent Diagram
- Machinery Room
- Lifting
- Anchoring
- Life Saving
- Arrangement
- Installation

### E&I
- Elec. Diagram
- EL. Load Analysis
- Arrangement
- Installation
- Fabrication

### Architecture
- HVAC & Architecture Diagram
- Arrangement
- Installation
- Fabrication

### Production
- Block Division
- Production Method
- Lifting Method
- Scaffolding
- Load Out
- Consulting etc.
Retrofit Business – BWTS, SOx Scrubber system

In accordance with the mandatory revision of the International Maritime Law, we have concluded agreements with companies supplying BWTS / SOx & NOx scrubber system equipment that require new installations.

We already have direct contract with Global Container Company 8,000 teu container for SOx scrubber system basic, production engineering and construction supervising, also contract with SHI for Global Container Company 8,000 teu container for production engineering.

Equipment engineering for BWTS & SOx scrubber system on new 6.6K Chemical Tanker of Sam-Kang Shipyard.

GOGS aims to provide ship owners with retrofit BWTS / Scrubber system expertise during the retrofit process.

**GOGS Retrofit Process**

- Vessel specification check & drawing review
- Survey & pre engineering
- Engineering (basic & production)
- Procurement & pre fabrication
- Retrofit (Installation) – owner option
  1. Retrofit on GOGS consortium shipyard (Korea & China)
  2. Retrofit on Owner consortium shipyard
- Start up & Commissioning
**Package / Skid Modulization Business**

Fabrication and assembly of Package Module at a domestic site in Korea very close to SHI and DSME shipyard by a skilled people, cost effective materials supply chain.

Provided production shop with excellent facilities and execute fabrication, assembly, mechanical completion, commissioning and delivery together with GOGS and Customer.

Transportation for delivery is dramatically short.

Easy availability of production materials like steel and pipe spools, electrical, painting and related materials and skilled workers.

**Simple scope of work**

**Customer Scope:**
1. Supply core equipment / components and basic drawing to GOGS
2. Supervision and documentation

**GOGS Scope:**
1. Detail and customized engineering
2. Purchasing all related materials in a domestic market
3. Fabrication and Assembly
4. Inspection and Functional test
5. Delivery to shipyard

**Simple Process**

- Core components supplied by customer
- Logistics & Transportation
- Local Purchasing Piping / Fitting Tubing / outfitting Cable tray / Steel plate & etc
- Assembly - GOGS Shop
- Inspection MC Commissioning
- Delivery to Shipyard

Carry out by GOGS in Local
Ship Repair Business

GOGS is specialized in providing warranty repair business services for ship built such as Drillship / FPSO / LNG / Tanker / Container ship / Bulk carrier / Car carrier of DSME and SHI.

GOGS provides technical support and problem solving solutions through experienced ship engineer’s visit services. There are various maintenance programs to meet customer’s demand for damaged equipment as well as ships. By providing the necessary parts and services for maintenance, GOGS saves time and cost for clients.

Rapid technical service from specialized GOGS service engineer.

Total maintenance service: spare parts + maintenance + calibration.

All kinds of safety function and running condition after overhaul for safe operation.

In order to maintain the best condition and well-balanced performance, GOGS carries out periodic and scheduled maintenance on behalf of the client as per our regular maintenance plan.

1. Pipe system modification
2. Hull system modification
3. Engine room & Deck machinery system fabrication
4. Outfitting & Electrical system modification
5. Accommodation system modification
6. Control system commissioning
7. Engine repair service
8. Piping hydro & leak test, Machinery system flushing

GOGS Promise
1. Approved Quality
2. Just in Time Repair
3. Reasonable Cost
4. Speedy Response
New Ship Construction Business

Based on the world's best engineers and project management technology, which has the world's strongest shipbuilding technology, we have built a consistent service system from shipyard construction to design, material procurement, procurement, installation and commissioning. From technical consulting service to order & shipbuilding, we provide the type of service which customer wants.

- Ship yard arrangement (Korea, owner company, etc.)
  Case 1: After negotiating idle equipment at domestic and abroad and select ship yard
  Shipyard lease and use as a partner company, GOGS will control overall management for all stages
  Case 2: Ship which wants to build in a country without shipyard
  GOGS can firstly provide shipyard architecture engineering service such as, lay out, capacity plan, equipment list

- Engineering (basic design, detail and production design)
  Optimized engineering with direct execution management by GOGS

- Procurement (equipment and material management)
  Development of optimum maker list
  Customized packing system

- Construction management (fabrication, installation, scaffolding, insulation, painting, commissioning)
  Customized production method to examine the working environment
  GOGS supervisor will dispatch for core part and monitoring service
We are offering suitable assistance with technical support and mobilizing professional personnel at an appropriate time and place in order to complete projects successfully.

GOGS have a great deal of experience to carry out ‘Punch Clearing & Modification Business’ in various projects with our professional punch clear team organized with active and experienced members, and we make efforts to do our utmost for even better services at all times.

And, successful Construction Management demands a detail-diligent approach, proactively managed by professionals who have the experience, skills and technical support each project demands. Our professionals are not only credentialed; they have seasoned, hands-on experience in the construction industry.

This experience, gained in the trenches of construction projects across the globe, gives our project teams the practical knowledge they need to effectively manage virtually any type of capital project.


- Completion of Remaining Work according to system as per client’s diagnose
- Punch Clearance Work for Offshore Package Unit
- Upgrade Equipment & System
- OFE installation including equipment
- Hot Oil/Chemical Flushing Service, Chemical Clearance, SUS Passivation
- Tiger Paint & Blasting & Painting
- Preservation & lay up
- Insulation
Commissioning Business

Commissioning is not only a validation of equipment and systems operation, it is also a form of quality assurance.

Our experience is to approach the development of a commissioning plan starts with a strong understanding of the Client’s requirements, the project design intent, the systems installed and the desired outcome. We develop a plan that includes that understanding, as well as how commissioning communications will be processed, a complete outline of testing to be performed with the acceptance criteria, documentation required and a training outline.

- **Mechanical/Hydraulic**
  - System MC, pre-commissioning, commissioning, start up test
  - Rotating machinery installation, alignment, unit pre-start up test and operation
  - Marine utility system installation and test

- **Piping, Hydro test, Leak test**
  - Piping/tubing fabricating & installation, high pressure hydro test, line flushing, hydro test,
  - Sensitive leak test and function test, Field modification, repair and punch rectification

- **Electrical and I&C**
  - Field instrument calibration, cable pulling & connection
  - Fiber optical cable connection & test
  - I/O validation check (Loop test, F&G, Cause & Effect test)
  - PLC & device-net programming and commissioning
  - Electrical testing (Sequence, no load test)

- **Installation / Hook-up**
  - Mechanical and Piping
  - Electrical and HVAC
GOGS maintains a collaborative relationship with Asian equipment companies and supply products to shipyards.

Supply of equipment to various kinds of vessels through relationship with Oil and Gas major's equipment Vendors. Also supplies consumable or required material after post-A/S and/or terminated service.

Through the agreement with the core equipment vendor, it locally produces rather than the material supply income when working in Korea.

Available supply equipment through local equipment network.

Export & Import / Custom order / Purchasing agent

**Service Products**

- Ship spare part
- Ship equipment & material
- Modification item
- PPE item
- Consumable item
- Customized item
- Operating equipment
- Frequently fabricated items before sailing away
- Oil & lubricant
- Ship loose material packing & sea fastening
- Smart CO2 Welding machine including Inverter type Manufacturing in our shop
Established a representative office in Dalian, China on June 20, 2002.

Main business: It is a trade to supply Korean ship equipment to a large shipyard in China.

Main customers:
- State-owned shipyards: Dalian Shipyard (DSIC), Bohai Shipyard, Qingdao Beihai Shipyard, Shanghai Shipyard, Tianjin Xingang Shipyard, Shanghai Hudong Shipyard, SWS Shipyard, Jiangnan Shipyard

Long established trust and plenty of records.

Trading Business – Equipment & Raw Material

Service Products

- Ballast Water Treatment
- Emergency Generator
- Provision & E/R Crane
- Cargo Oil Pump
- F.O & L.O filter
- Fresh Water Generator
- Propeller
- Emergency Towing System
- Anchor & Anchor chain
- Mooring Rope
- Lighting
- Heating Coil
- Deck Machinery
- Raw Materials
Manpower Management

Not all of today’s organizations have the internal resources to handle every type of construction assignment.

We can augment a Client’s Construction Team with specific expertise based upon the unique needs of each individual assignment. We offer experienced professionals with flexible availability that ranges from days to years.

Our experienced Project Managers, Construction Managers, Engineers, Architects, Designers, Schedulers, Contract Administrators, Office Administrators and other professionals are available any type of project at any phase.

Our professionals take a results-driven, cooperative, approach to meeting our Clients’ goals, and effectively complement existing permanent staff throughout the globe.

Rental Services

- Load Bank, Motor Generator, Boat, Barge
- Work Shop & Storage, Container
- Accommodation & Car

Administration Service

- Visa / Work permit / Driver license acquisition
- International school registration assistance
Capacity & Capability

Fabrication Yard (1)

- 100T Work Shop
- 80T Work Shop
- 20T, 20T, 10T
- 15T, 10T, 10T
- 20T/5T X 2 Work Shop

Images:
- BAY-1
- BAY-2
- BAY-3
- 100T, 80T
## Performance Records - Engineering

<table>
<thead>
<tr>
<th>Type of Vessel</th>
<th>Project Name</th>
<th>Ship Yard</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Platform</td>
<td>Sakhalin</td>
<td>SHI</td>
<td>2004 ~ 2006</td>
</tr>
<tr>
<td></td>
<td>Benguela Belize</td>
<td>DSME</td>
<td>2004 ~ 2005</td>
</tr>
<tr>
<td></td>
<td>Sanha</td>
<td>DSME</td>
<td>2002 ~ 2003</td>
</tr>
<tr>
<td>TLP &amp; Semi-Rig</td>
<td>Appomatox, Stena</td>
<td>SHI</td>
<td>2015 ~ 2016</td>
</tr>
<tr>
<td></td>
<td>West E-Drill</td>
<td>SHI</td>
<td>2007</td>
</tr>
<tr>
<td></td>
<td>Shenzi</td>
<td>SHI</td>
<td>2006 ~ 2007</td>
</tr>
<tr>
<td>FLNG</td>
<td>PETRONAS</td>
<td>SHI</td>
<td>2015 ~ 2016</td>
</tr>
<tr>
<td></td>
<td>Shell</td>
<td>SHI</td>
<td>2014 ~ 2017</td>
</tr>
<tr>
<td>Drill Ship</td>
<td>Maersk</td>
<td>SHI</td>
<td>2012 ~ 2013</td>
</tr>
<tr>
<td></td>
<td>Pride</td>
<td>SHI</td>
<td>2010 ~ 2011</td>
</tr>
<tr>
<td></td>
<td>Ocean Rig</td>
<td>SHI</td>
<td>2010 ~ 2011</td>
</tr>
<tr>
<td></td>
<td>PDC</td>
<td>SHI</td>
<td>2009 ~ 2010</td>
</tr>
<tr>
<td></td>
<td>Seadrill</td>
<td>SHI</td>
<td>2007 ~ 2008</td>
</tr>
<tr>
<td></td>
<td>Stena</td>
<td>SHI</td>
<td>2006 ~ 2007</td>
</tr>
<tr>
<td></td>
<td>Navis</td>
<td>SHI</td>
<td>1999 ~ 2000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of Vessel</th>
<th>Ship Yard</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Container</td>
<td>SHI</td>
<td>1999 ~ 2018</td>
</tr>
<tr>
<td></td>
<td>SHI,SPP,S</td>
<td>1994 ~ 2015</td>
</tr>
<tr>
<td></td>
<td>D,STX</td>
<td></td>
</tr>
<tr>
<td>LNG</td>
<td>SHI</td>
<td>2003 ~ 2018</td>
</tr>
<tr>
<td></td>
<td>SHI,SPP,S</td>
<td>1994 ~ 2018</td>
</tr>
<tr>
<td></td>
<td>D,STX, SK</td>
<td></td>
</tr>
<tr>
<td>Shuttle Tanker</td>
<td>SHI</td>
<td>2005 ~ 2018</td>
</tr>
<tr>
<td>Passenger Boat</td>
<td>SHI</td>
<td>1999 ~ 2015</td>
</tr>
<tr>
<td>FPSO</td>
<td>SHI</td>
<td>2015 ~ 2016</td>
</tr>
<tr>
<td></td>
<td>Teekay</td>
<td>2013</td>
</tr>
<tr>
<td></td>
<td>BP Skarv</td>
<td>2009</td>
</tr>
<tr>
<td></td>
<td>Nexus</td>
<td>2008</td>
</tr>
</tbody>
</table>
### Performance records – Engineering Consultancy

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Description</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUHUA (China)</td>
<td>Ship Yard Capacity / Production System Review</td>
<td>2008</td>
</tr>
<tr>
<td>RAFFLES (China)</td>
<td>Semi Rig Detail &amp; Production Drawing (Structure, Piping, E&amp;I, Outfitting)</td>
<td>2006~2008</td>
</tr>
<tr>
<td>Sung Dong Shipyard (Korea)</td>
<td>Basic &amp; Detail Design Review Vendor Control &amp; MTO</td>
<td>2007</td>
</tr>
<tr>
<td>SPP Shipyard (Korea)</td>
<td>Yard Practice (Structure, Pipe, Outfitting) &amp; Construction System</td>
<td>2006</td>
</tr>
<tr>
<td>Samho Shipyard (Korea)</td>
<td></td>
<td>2005</td>
</tr>
</tbody>
</table>
## Performance records – Offshore Procurement

<table>
<thead>
<tr>
<th>Client</th>
<th>Description</th>
<th>Year</th>
</tr>
</thead>
</table>
| AKER MH, ABB, NOV, OCEAN SAVEN | Spare parts & Supply pipe spools  
                          Unit structural & Steel outfitting fabrication | 2012  |
| SEIMENS                 | Spare parts & Supply pipe spools                                           | 2014  |
| ATLAS COPCO            | Painting work For PTFE pipe spool supports   
                          Cable Tray & Cover modification items | 2015  |
| BONO ARTES             | Pipe spool painting work                                                    | 2016  |
| SCHLUMBERGER           | Bulk items                                                                 | 2016  |
| FRED OLSEN             | Tool box & Traffolyte & Steel Tag                                           | 2016  |
## Performance records – Manpower Supply

<table>
<thead>
<tr>
<th>Client</th>
<th>Description</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>KONGSBERG</strong></td>
<td>Technician (E&amp;I / Mechanical / Punch work / Piping / Commissioning) Inspector( E&amp;I /Piping /Painting / Mechanical / Structural / HVAC ) Ballast Treatment System Service Engineer</td>
<td>2012</td>
</tr>
<tr>
<td><strong>TEEKAY, ODFJELL</strong></td>
<td>Engineer &amp; Designer ( E&amp;I, Piping, Outfitting, Mechanical, Structure, PDMS ) Office</td>
<td>2013~2014</td>
</tr>
<tr>
<td><strong>FRED OLSEN, ABB</strong></td>
<td>Ballast Treatment System Service Engineer</td>
<td>2014</td>
</tr>
<tr>
<td><strong>OCEAN SAVER, CATRINA</strong></td>
<td>Engineer &amp; Designer ( E&amp;I, Piping, Outfitting, Mechanical, Structure, PDMS ) Office</td>
<td>2015</td>
</tr>
<tr>
<td><strong>FLO</strong></td>
<td>Ballast Treatment System Service Engineer</td>
<td>2015</td>
</tr>
<tr>
<td><strong>SHELL, EXXON MOBIL</strong></td>
<td>Technician (E&amp;I / Mechanical / Punch work / Piping / Commissioning) Inspector( E&amp;I /Piping /Painting / Mechanical / Structural / HVAC )</td>
<td>2015~2017</td>
</tr>
<tr>
<td><strong>INPEX, DONG ENERGY</strong></td>
<td>Technician (E&amp;I / Mechanical / Punch work / Piping / Commissioning) Inspector( E&amp;I /Piping /Painting / Mechanical / Structural / HVAC )</td>
<td>2016~2017</td>
</tr>
<tr>
<td><strong>MHI</strong> (Mitsubishi Heavy Industries)</td>
<td>Ship Commissioning to Elect. / I&amp;C / Mechanical / HVAC / Piping (PGS,LPGC etc.)</td>
<td>2016~</td>
</tr>
</tbody>
</table>
## Performance records – Punch Clearance & Modification

<table>
<thead>
<tr>
<th>Project /Client</th>
<th>Description</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABB</td>
<td>FG Cabinet Power Cable / ESD Cabinet Network Cabinet Patch Panel</td>
<td>2013</td>
</tr>
</tbody>
</table>
| KONGSBERG (KMK Offshore Projects) | FAT Punch Items  
Power & Network Cable / Cabinets | 2013 |
| STENA Drill Max Ice Drillship | SCHLUMBERGER (Electrical Cable Repair) | 2013 |
| TEEKAY FPSO     | Installation of Temporary Incinerator  
Modification of Hatch Cover,  
Centralizing Pipes Fabrication of Spools, Tool box  
Tiger Painting (Living quarter, Heli-Deck) | 2014 |
| ALFALAVAL       | Desalination Packages, Fresh Water Generator, Valve Re-orientation  
Heat exchanger by-pass pipe installation, Purifier  
Distillation insulation installation, Re-gas Glycol Water Heater  
Lean solvent coolers etc. | 2015~ |
## Performance records – Punch Clearance & Modification

<table>
<thead>
<tr>
<th>Project</th>
<th>Client / Description</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHELL FLNG (Technip FMC) SHELL CPI</td>
<td>Additional stairs on skid (20 points) Estimation (Scheduling), Engineering (Design &amp; Modification), Fabrication, Installation, Quality Control (Inspection &amp; Trouble Shoot) to Completion &amp; Handover (Final Closing Report). COES (Air Dryer Packages) KHI (Coiler packages) ATLAS COPCO (Air Compressor Packages, Regeneration Compressor, Maintenance Compressor) EVOQUA (Chlorination Packages) BONO ARTES (Skid Mixed Beds Exchange Polisher Package) MHI (Mitsubishi Heavy Industries) (STG Package, NGB Compressor, OVHD Compressor, DEP Compressor) SIEMENS (Lube Oil console of End Flush Gas Compressor, Seal Gas Filter, Oil Vapor Extraction Fan Motors) FLOWSERVE (CCW2 Packages, Seal System Packages, Actuator, Valves) GE (MR/PMR Compressor) ALDERLY (Condensate Coriolis Metering skid, Butane Metering Skid, Propane etering Skid) AUTOCHIM (Deluge Skid) GBA (Air Cooler) MILTON ROY (Chemical Packages) PERONI (Subsea Injection Pumps Package) YOKOGAWA (Analyzer Package) EXO (MLA Crane, Overhead Crane) J.BARNSELY (OVHD Travelling Crane, Air Compressor barnsely OVHD Crane) AIR PRODUCTS (N2 Packages) FAVELLE FARCO CRANE (Pedestal Crane) EBARA (Debutanizer Reflux Pump) HEATRIC (Pressure Vessel) SULZER (Debutanizer Column) PECO-PACET (Chemical Spills Collection Filter, Pressure Vessel)</td>
<td>2015~2017</td>
</tr>
</tbody>
</table>
## Performance records – MC & Commissioning

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Description</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EGINA</strong></td>
<td>Commissioning assist to Elect / I&amp;C. / Mechanical. / HVAC / Piping</td>
<td>2016~</td>
</tr>
<tr>
<td><strong>SHELL FLNG</strong></td>
<td>Commissioning For L/Q, E &amp; I loop test for Hull and Top-side Commissioning For Mud Sys &amp; HVAC Sys</td>
<td></td>
</tr>
<tr>
<td><strong>ICHTHYS CPF</strong></td>
<td>Flushing for ROV and Sub-sea control system Helium leak test &amp; COW &amp; Punch work Commissioning for marine utility system Commissioning for production equipment Commissioning for Safety &amp; Drilling Sys etc.</td>
<td></td>
</tr>
<tr>
<td><strong>ODFJELL SEMI RIG</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Commercial Vessel (Japan/MHI)</strong></td>
<td>Ship Commissioning to Elect. / I&amp;C / Mechanical./ HVAC/Piping (PGS,LPGC etc.)</td>
<td>2016~</td>
</tr>
</tbody>
</table>
# Performance records – Ship Repair Services

<table>
<thead>
<tr>
<th>Type of Vessel</th>
<th>Description</th>
<th>Year</th>
</tr>
</thead>
</table>
| **Container Ship** | HP, LP Drum Cupper Line Installation
Inc. Washer Oil TK MDO Flushing and Leak Test / Pipe and Flange Renew
Steam Tracing Installation and Insulation
Support Installation for Vibration of Exhaust Gas Pipes
Propeller Shaft Repair | 2018 |
| **Tanker** | Modification for Outlet of Emergency Generator
Additionally Support Installation and Insulation
Reefer Cooling Expansion Tank Modification
G/E Air Cooler Drain Line Modification (Reconnection and Welding) | 2017 |
“Benefits of geographic location”

< Easy Access, Easy Transportation to Shipyard >