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An ISO 9001: 2008 Certified Company & Member of ADCI.



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## 1. About Us



SYNERGY SUBSEA ENGINEERING LLC serving the Oil & Gas industries, the Company was incorporated with the primary objective of providing all aspects of Underwater Diving Services, Specialized equipment, Allied Fabrications, Project Management, Marine Support, Consultancies etc., all under one roof.

The company is not simply an Underwater Diving Organization, but a group of underwater specialist, who can provide all aspects of Underwater Engineering and Project Management as well as the more routine diving services. Our main strengths are our flexibility and our ability to deliver projects safely, on time and to the best possible quality. Synergy offers a professional, prompt, efficient and competitive service. From seabed until the highest point of an offshore structure, from bottom to top, Synergy can offer a wide range of services to the Oil & Gas Industry.

The company maintains a motivated, creative and experienced team and a versatile range of compliant and fully certified diving equipment which can be configured to provide diving solutions for any worksite. Synergy has extensive working experience and track record in the offshore industry.

Synergy provides in addition, saturation diving, ROV inspection, ROV observation and ROV light construction works. ROV services are performed in an efficient and cost effective manner. Synergy is based in the Dubai, United Arab Emirates & operating for all the Diving services Activities around the world. The Head office 10 minutes drive from the Dubai Intl., Air Port, which also accommodates all the stores, workshop and maintenance facilities.

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## 2. Services



With the support of experienced and well-known specialists, Synergy has the experience and ability to recognize and develop effective solutions to specific clients' need for a wide range of offshore support and engineering requirements.

### *Offshore Construction*

- Pre-Engineering Survey for the Installation and modification of existing Platforms and Jackets.
- Riser Clamps Installation.
- Riser Installation
- Conductor Clamp Installation.
- J tube and I tube installation.
- Subsea Flexible Pipes & Flow line's Installation.
- Subsea Spool Piece Installation.
- Barge Bumpers & Boat Landing Installation
- Riser Protectors installation
- As built and post construction Survey.
- Marine growth removal and inspection.



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## 2. Services



### *Subsea Pipeline works*

- Route survey for the pipeline.
- Free span Correction using underwater grouting system (Crossing's)
- Damage assessment & Clamp / Connector Installation.
- Decommissioning of Pipeline.
- Installation of Cathodic protection on Pipeline.
- Assist in Pipeline laying and Trenching work.



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## 2. Services



### *Submarine Fiber Optic Cable Laying*

- Route survey for the cable, and Near Shore protection.
- Shore End Cable Landing operations.
- Cable Laying, Trenching and Burial work.
- Mattress laying for near shore protection.
- Articulated (Split Pipe) installation.
- Cable Pinning operations.
- Pre & Post lay CCTV Survey.
- Cable Burial using U/W Trenching System.



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## 2. Services



### *Underwater NDT Work*

- NDT work of the / FPSO / Floaters/ Semi submersible Rigs / SBM & SPM.
- In - Lieu of Dry Docking Survey of jack-Up Rigs for all Major Classification Societies like: ABS, DNV, Lloyds, BV, IRS.
- Underwater Visual Inspection of Rigs / Vessel Offshore Structures.
- Cathodic Protection Survey for the Offshore Platforms and Offshore Structures.
- Ultrasonic Thickness gauging for the offshore Platforms and Offshore structure.
- Magnetic particle Inspection (MPI) for the Welds on the Platforms / Jackets/ Jack-up Rigs, etc
- Flooded Member Detection.



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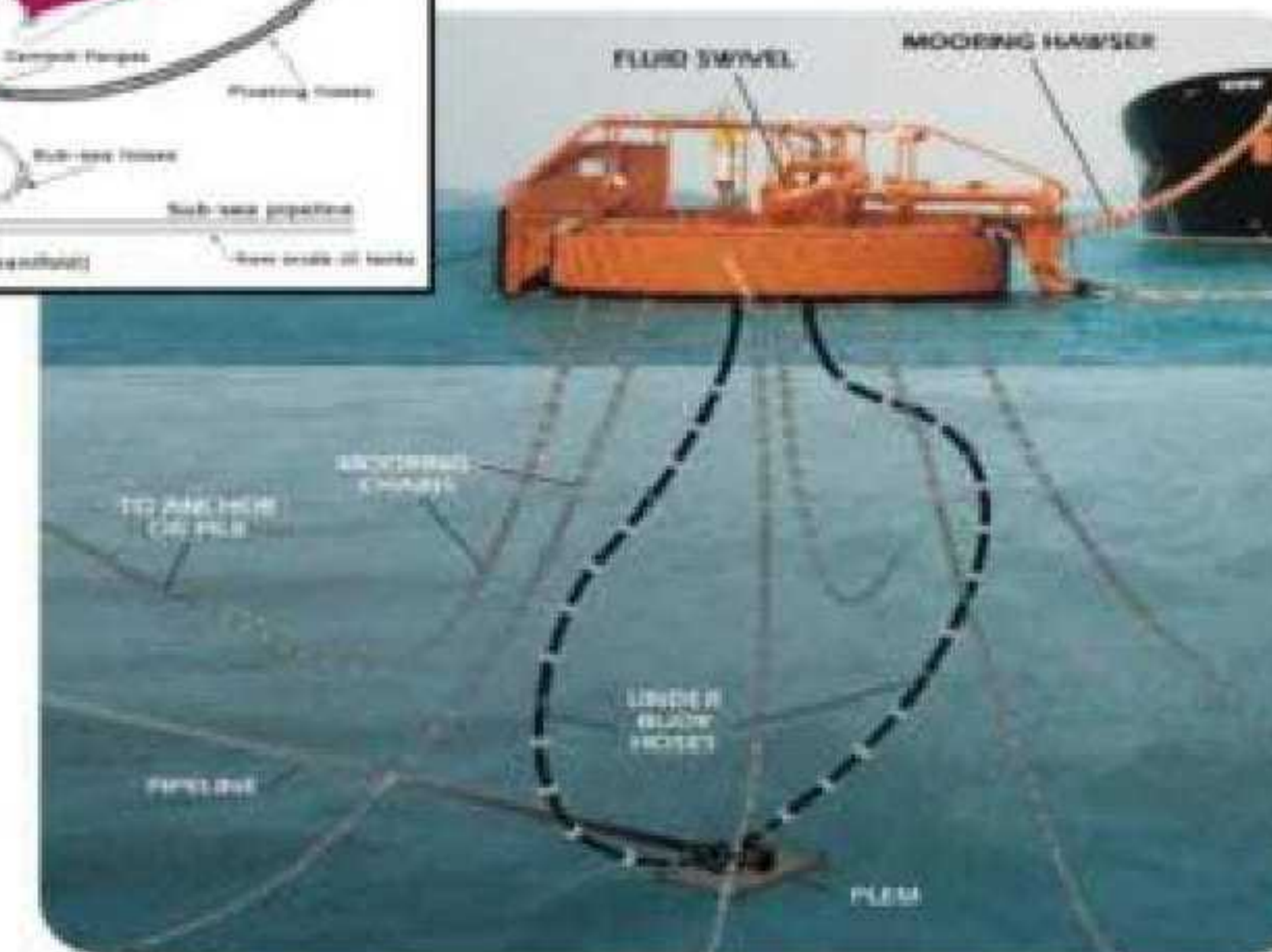
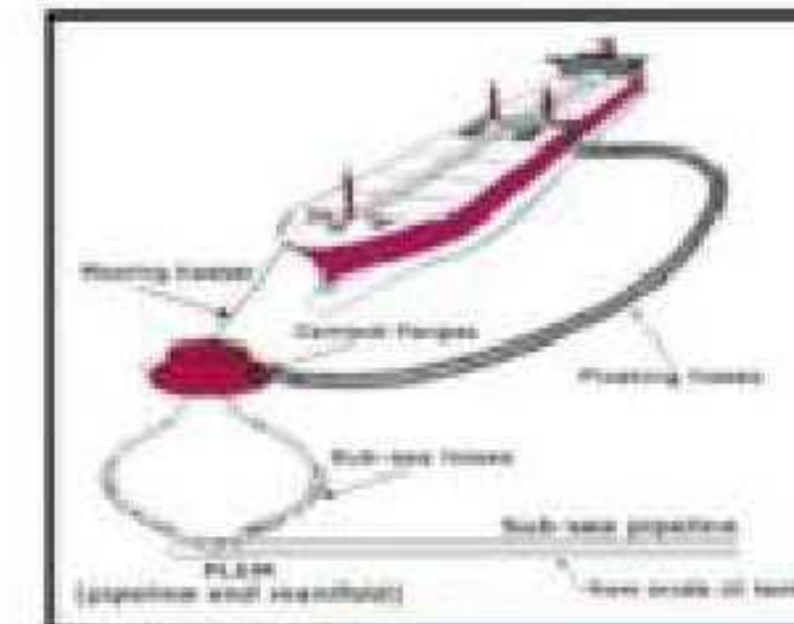


## 2. Services



### *SBM and SPM*

- Installation of SBM & SPM.
- SBM / SPM Subsea Hose inspection and Changing if required.
- SBM / SPM Chains Inspections.
- Subsea PLEM Change out.
- MGR / NDT and Class Survey of the Buoy and Chains.



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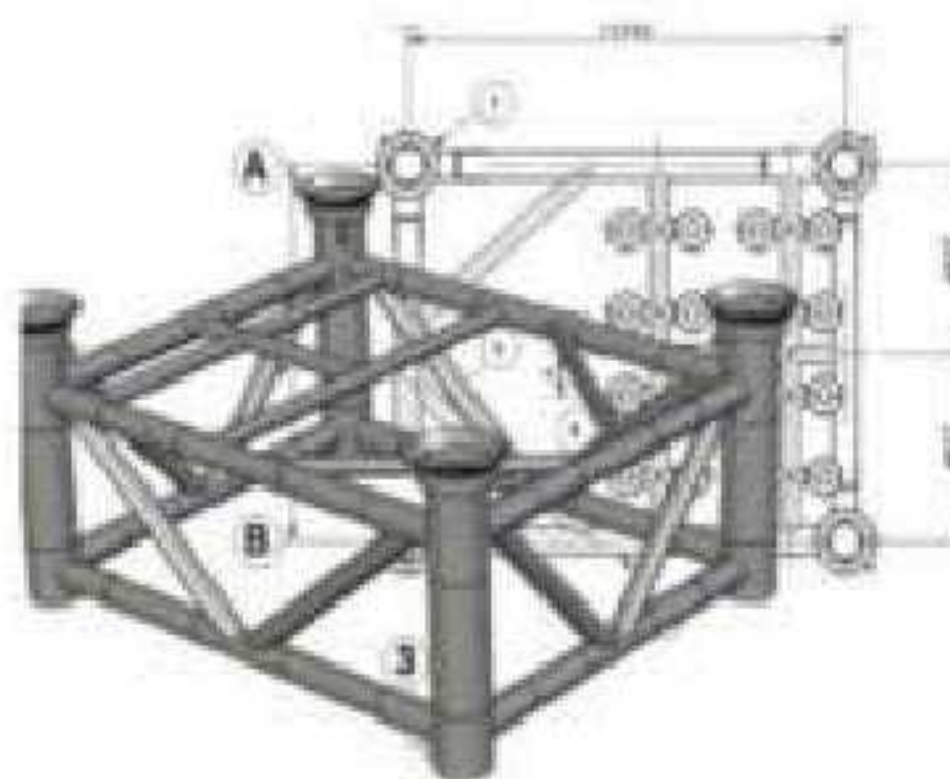


## 2. Services



### *Onshore Underwater Vessel Inspection & Engineering work*

- Vessel / Barge Inspection for Propeller Clearing.
- Vessel / Barge Hull Cleaning & Propeller Polishing.
- Vessel / Barge Sea chest Cleaning and Video Recording.
- Under water Welding and Patching of any Damage to Vessel / Barge.
- Recovery of Fallen cargo.
- Class Survey of Vessel and Barge.



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## 2. Services



### *Civil Construction Works*

- Underwater Block Placing for Break water / Jetty construction.
- Seabed Leveling and Underwater Grouting work.
- Underwater Geo Textile Installation.
- Underwater video recording.
- Underwater Control Blasting.
- Underwater Cutting and welding works.
- Third party inspection survey & reporting.



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## 2. Services



### *Remotely Operated Vehicles (ROV)*

- Observation Class ROV's: Capable of conducting wide range of operations including Diver Support, Jacket Inspection, Environmental Sampling and Touchdown Monitoring.
- Light Work Class ROV's: Capable of conducting wide range of operations including Survey, Inspection, Environmental Sampling, Drill Support and Light Construction.
- Work Class ROV's: For operations in deep and ultra deep water depths. Undertake a wide variety of survey, construction and drilling support operations.
- ROV Supervisors, ROV Pilots and ROV Technician.



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## 2. Services



### *Personnel's Supply*

Providing IMCA approved Personnel, Saturation Dive Superintendent / Supervisor,  
HSE / IMCA Part -II Divers (Sat Diver's), HSE / IMCA Part-I Divers (Air Divers),  
Dive Technician's (Electrical / Mechanical), Life support Supervisors / Technicians (LSS / LST),  
Field Engineer's.

### *Diving Equipment Rentals*

- Complete Air and gas Dive system as per IMCA design.
- Underwater CCTV Units.
- NDT Equipments. (MPI Unit , CP meter, UT Meter)
- LARS. (Launch and Recovery System).
- Dive Decompression Chambers.
- Lift Bags.
- Any specialized Subsea equipments as per client requirements.
- Vessel Inspection equipments.



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### 3. QHSE



#### Health & Safety Policies

Synergy Subsea Engineering LLC' business culture is the understanding that a safe and healthy workforce builds business success. Our commitment to the safety, health and wellbeing of our employees and everyone affected by our undertakings, including contractors, visitors and neighbors is underpinned by the philosophy that no job is worth an injury and the belief that all injuries and work related diseases are preventable.

To implement this policy and maintain our commitment, we will:

- Establish and maintain a Safety and Health Management System with measurable objectives and targets;
- Provide and maintain safe workplaces, systems, plant and equipment;
- Provide supervision, information and training to ensure our people are safe at work;
- Apply work procedures and systems that identify hazards and assess and manage risks through elimination or other appropriate control measures;
- Assess and continuously review the safety management and safety performance of subcontractors' and suppliers to ensure our employees are not exposed to unacceptable risks;
- Comply with all applicable laws, standards, regulations and best practices while aspiring to exceed these;
- Where practicable, apply the higher of our own standards, the customer's standards or the appropriate legislated Health and Safety requirements;
- Report, investigate and share all incidents and near misses in order to maximize learning and prevent similar events in the future;
- Conduct regular audits, inspections, reviews and reports to measure compliance with this policy and our standards, and to inform continuous improvement; and
- Foster a culture that encourages and rewards frank and fearless participation and consultation in the management of Safety and Health.

Synergy Subsea Engineering LLC recognizes that the success of this Safety and Health Policy relies on the total commitment and cooperation of management and staff – a unified approach. It is the responsibility of all individuals to achieve a safe and healthy workplace.

*No job is worth an injury.....*

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### 3. QHSE



#### Environmental Policy

Protection of the environment is integral to Synergy Subsea Engineering LLC' business success.

Our commitment to the responsible management of the environment is underpinned by the philosophy that our business activities should have the least possible effect on the environment and where possible should leave it better than when we found it.

To implement this policy and maintain our commitment, we will:

- Establish and maintain an Environmental Management System with measurable objectives and targets, and defined responsibilities and accountabilities;
- Develop environmental management plans prior to any activity that has the potential to negatively impact on the environment;
- Rigorously employ methodologies to identify environmental hazards, assess their risks and control the risks to 'as low as reasonably practicable';
- Develop and maintain environmental contingency response plans;
- Provide the resources, supervision, information and training to ensure our people can and do work in an environmentally responsible manner;
- Report and investigate all incidents and near misses in order to maximize learning and prevent similar occurrences in future;
- Achieve a level of environmental performance that goes beyond that required for legislative and regulatory compliance;
- Continually reduce our environmental footprint while delivering value for our employees, our clients and our shareholders; and
- Foster a culture that encourages and rewards sound environmental practices and ongoing consultation on environmental management.

Synergy Subsea Engineering LLC' recognizes that the success of this Environmental Policy relies on the total commitment and cooperation of management and staff – a unified approach.

*Better than when we found it....*

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### 3. QHSE



#### Quality System

Consistent delivery of the highest quality integrated engineering services to the oil and gas, shipping, marine infrastructure and associated industries is Synergy Subsea Engineering LLC' principle objective. Our commitment to quality and to delivering professional service and product to our customers is fundamental to our business success.

To implement this policy and maintain our commitment, management and staff will:

- Establish, document, implement and maintain a quality management system with measurable objectives and targets and continuously improve its effectiveness;
- Provide the infrastructure and resources needed for quality, including personnel and their education, training, skills and experience;
- Define and communicate quality responsibilities and authorities;
- Understand customer requirements prior to commencing any work;
- Develop and maintain integrated communication processes;
- Develop and continually review our quality objectives and the strategies that underpin them;
- Regularly audit and review the quality management system to ensure its ongoing suitability, adequacy, effectiveness and evolution;
- Meet or exceed customer needs and expectations whilst complying with all legal and contractual obligations; and
- Ensure quality issues and non-conformances are resolved, leading to continual improvement of our quality system and operating practices.

Synergy Subsea Engineering LLC recognizes that building value for its employees, customers and shareholders is underpinned by the quality of its products. This requires the total commitment and cooperation of management and staff – a unified approach. It is the responsibility of all individuals to enhance our reputation as a customer focused company that consistently delivers the highest quality.

*Better than expected....*

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## 4. Company Resources



### MIX GAS & AIR DIVING SYSTEM

60" Twin Lock Decompression chamber. It consists of an Entry Lock, Main Lock And a medical lock. The entrance lock gives access to the Main lock for personnel, and the Medical lock is used to provide medicine and food etc to the personnel inside the main lock. There are two modes of communication from supervisor to diver / medic inside the chamber And vice versa. A chamber communicator on the chamber panel is connected to internal talk Back speakers in the main and entry locks. As backup, sound powered phones are also provided in case of power loss to the chamber.



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## 4. Company Resources



### DIVING LAUNCH & RECOVERY SYSTEM (LARS)

Specification:

- Mini Air basket deployment (2 diver)
- Robust painted steel skid
- Length = 3,170m
- Width = 2,100m
- Height = 2,380m / 3,620m (transport/deployed)
- 1,000 kg 70m main wire basket winch
- 650 kg 140m guide wire weight winch
- Twin hydraulic motor power pack with individual pumps per winch.
- Ascent rate of 18m/min
- Full certification pack to IMCA std



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## 4. Company Resources



### SCUBA REPLACEMENT WITH 2DIVER PANEL AND DIVER COMMUNICATION

This panel is a 2 & 3 Diver HP/LP control panel, suitable for offshore use.

The panel is mounted with aluminum frame.

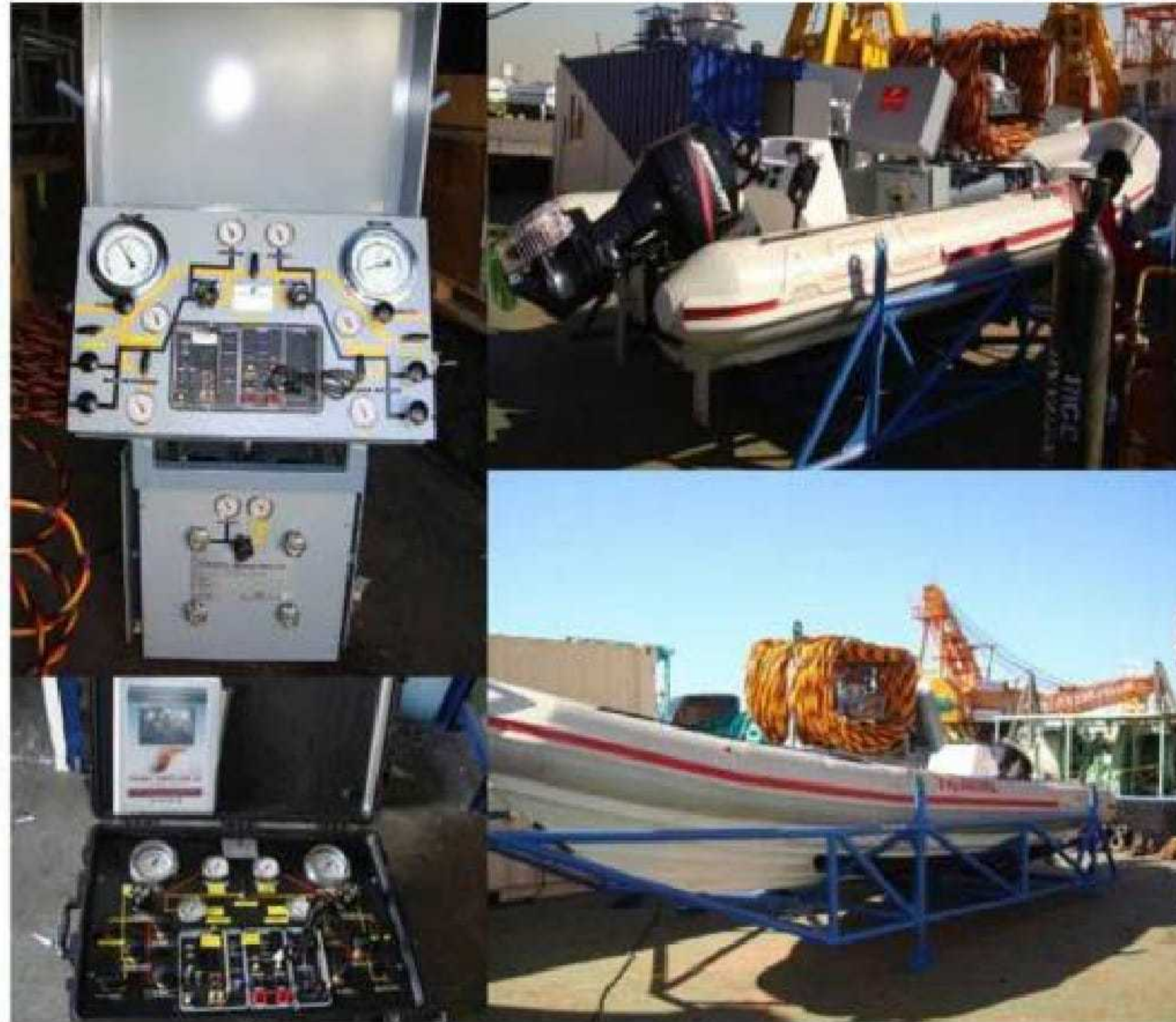
The panel pressure gauges are 62mm dia.

All the inlets and outlets are 3/8 & 1/4 swage lock, hard plumbed with ss tubing.

All LP valves are quarter turn ball valves and the HP valves are 1/4 inch needle valves.

The LP air supply has a max. Inlet working pressure of 15 bars (220 PSI) and the HP air supply has a max.

Inlet working pressure of 200bars



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## 4. Company Resources



### DIVING BOAT

Type: Outboard Motor

Series: Four Stroke V Max SHO

HP: 200

Engine Type: V6 (60 degrees)

Starting System: Electric

Shaft Length: 20 in.

Power Trim and Tilt: Yes

Weight: 505 lb (229 kg)



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## 4. Company Resources



### ZODIAC BOAT

Overall length : 3.70 (m) / 12'2" (f / i)

Width : 1.99 (m) / 6'6" (f / i)

Weight : 97 (Kg) / 214 (Lbs)

Passengers (max) : 6

Engine : 15/12 - 40/30 (Hp/Kw) Short Shaft



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## 4. Company Resources



### LOW PRESSURE AIR COMPRESSOR

Heavy duty offshore pack container with lifting eyes, fork lift slots and covered bottom compressor and diesel has independent vibration absorption mounts.

Carbon monoxide (co) monitor with alarm, breathing air high temp alarm for 5120. Intake air cut off valve for diesel.

Dimensions: 96 " l x 55 " w x 48" h

Machine weight: 2750 lbs



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## 4. Company Resources



### HIGH PRESSURE BREATHING AIR COMPRESSORS

#### DIESEL

##### Features

- 6000 PSI (414 Bar) Max Pressure
- Grade E Breathing Air Filtration
- Dual Filter Filtration (60,000 Cu. Ft.)
- Inter stage Pressure Gauges
- Low Oil Shut Down
- Automatic Condensate Drains
- High Temp Shut Down
- Hour Meter
- 2 Fill Whips
- Diesel Engine
- Stainless Steel Intercoolers
- Electric Start and 12 Volt Battery with Box
- Visual CO & Moisture Indicator
- Lifting Eyes and Fork Lift Slots
- Stainless Steel Frame
- Steel Frame
- Powder Coat Blue Paint
- Auto Pressure Shutdown
- Dial-A-Pressure Switch
- Audible and Visual CO and High Temp Alarm with Shutdown
- Filtration Upgradeable (90,000 Cu. Ft.)
- Certified Lifting Eyes
- Large Base Mount Fuel Tank
- Remote Fill Panel
- Yanmar Diesel, Hatz Diesel or Honda Gas



#### ELECTRIC

##### Breathing Air Compressor MARINER 320

With 320 l/min. the new MARINER 320 is the most powerful portable compressor worldwide. Maximum F.A.D. and little space requirement qualify the MARINER 320 to be the top choice for professional use. The extremely robust block and corrosion-resistant components allow smooth operation even under toughest climatical conditions.



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## 4. Company Resources



### 350 CFM, 100-200 PSI ROTARY SCREW COMPRESSOR

The XA(H,V,T)S 300-375 DD6 range of portable air compressors from Atlas Copco is an innovative, state-of-the-art series of oil-injected rotary screw compressors, powered by reliable Deutz diesel engines. The modular design of these single axle units allows you to add many options to suit your needs and applications.

All compressors are manufactured in accordance with Atlas Copco's Quality and Environment Management System. This system complies fully with ISO 9001 and ISO 14001. All Atlas Copco compressors are tested to perform under the most demanding conditions.



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## 4. Company Resources



### AIR BANKS

Air filled tubes of pressure up to 3000 PSI. Used to supply high pressure air to dive control panel and low pressure air to DDC through high pressure regulator.



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## 4. Company Resources



### UNDER WATER MUD LIFT

- Pump size: 1 inch - 25mm inlet & outlet
- Type: fresh water pump
- Capacity: 130 litres/min
- Suction head lift: 7 metres
- Total head lift: 35 meters
- Engine: new style gx25 4 stroke, unleaded



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## 5. Client's



SOME OF OUR MAIN CLIENT'S LISTS ARE THE FOLLOWING...

- \* OIL AND NATURAL GAS CORPORATION LTD- INDIA
- \* HINDUSTAN PETROULEM CORPORATION LTD – INDIA
- \* HARDY OIL LTD - INDIA
- \* CAIRN ENERGY INDIA LTD - INDIA
- \* GREAT EASTERN SHIPPING COMPANY LTD - INDIA
- \* MAZGAON DOCK LTD - INDIA
- \* JAGSON INTERNATIONAL LTD - INDIA
- \* ABAN LOYD CHILES OFFSHORE LTD - INDIA
- \* IRIAN OIL EXPLORATION COMPANY – IRAN
- \* GAZPROM – RUSSIA
- \* BEKK SOLUTIONS- HONG KONG
- \* CAL DIVE INTERNATIONAL LTD - UAE
- \* PROSAFE- SINGAPORE
- \* JET DRILLING PTE. LTD.– SINGAPORE
- \* GLOBAL MARINE SYSTEMS LTD - UNITED KINGDOM
- \* GULMAR OFFSHORE MIDDLE EAST LLC - UAE
- \* DIVER MARINE DELTA- UAE
- \* E MARINE – UAE
- \* TYCO TELECOMMUNICATION-USA
- \* MARINE TECHNOLOGY – OMAN
- \* IMCC- GULF PIPING COMPANY- UAE
- \* DRAGON OIL- UAE
- \* ROYAL HASKONING- UAE
- \* HILACO – UAE
- \* NAVIMAR- UAE
- \* ROYAL OYSTER- UAE



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## 6. Company Management System



SYNERGY IS OPERATING UNDER QMS MONITORED ISO 9001 : 2008 CERTIFIED SCHEME.

GENERAL MEMBER OF ASSOCIATION OF DIVING CONTRACTORS INTERNATIONAL [ADCI] IN COMMERCIAL DIVING AND MARINE SERVICES.

SYNERGY IS A REGISTERED MEMBER OF EMIRATES DIVING ASSOCIATION [EDA].



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