



ISOICO

Iran Shipbuilding and Offshore Industries Complex (ISOICO), the largest infrastructure of the country's marine industry, is a special economic zone with an area of 1100 hectares, which was built near the Persian Gulf coast and 37 km west of Bandar Abbas in 1973, with the aim of building and repairing various vessels.

ISOICO complex is equipped with workshops and complete facilities and tools and a stilling basin with an area of 380 hectares as well as various systems of dewatering and launching vessels and various oil and gas facilities.

Over the past decade, Having delivered three ocean-going container vessels, built an oil tanker, designed and built a fishing support vessel, built a variety of barges, landing craft and Oil recovery vessels, and passenger and recreational vessels, as well as having transported and installed oil and gas platforms, repaired drilling rigs and vessels and tankers, ISOICO has proven its worth in this field.

Repair of drilling rigs, as effective and strategic structures in the development of oil and gas fields in the country, requires up-to-date knowledge and sophisticated engineering. Entering this market and acquiring and localizing the required knowledge in this field, ISOICO has introduced itself as a drilling rig repair hub.

Iran ISOICO Shipbuilding and Offshore Industries Complex has divided its activities in the field of construction and repair of vessels into three groups: design, construction and repair of small, medium and large vessels, as well as in the oil and gas sector of Mobin Sazeh Gostar Company. Each group follows a pre-defined program.

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Iran Shipbuilding and Offshore Industries Complex (ISOICO)



### Capacities:

- specialized human workforce
- Specialized and unique equipment and workshops
- Special economic zone and taking advantage of the rules and facilities of special zones
- Access to international waters through the Persian Gulf
- Proximity to Shahid Rajaei and Shahid Bamonar ports
- Marine Industries Industrial Town.

### Small vessels design, construction and repair group:

This ship yard, which is also the oldest part of the ISOICO complex, is able to build and repair all types of vessels up to a capacity of 800 tons.

#### Facilities:

- Floating lift slide with a capacity of 800 tons
- 15 floating parking lines with an area of 35,000 square meters
- Workshops for making various floating parts and blocks
- Repair workshops for all floating mechanical systems

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### Different units and capabilities:

#### ● Heavy equipment repair unit:

- Repair of 2 to 16-cylinder engines
- Repair of hydraulic systems and pumps
- Repair hydraulic jacks in different sizes

#### Welding and assembly unit

- Performing all kinds of welding of brass, bronze, steel, nickel, chrome, cast iron, electric welding, welding of Tig, Mig, Mag and welding operations of ship propellers, long steel shafts and submerged arc welding

#### Marine repair unit

- Repair of engines and marine gearboxes in different powers and shafts and propellers
- Repair of rudders and rudder blades of small and large units, as well as repair of hydraulic and mechanical pumps related to vessels
- Repair of condensers and engines, anchor winches and steering hydraulic jacks

#### Carpentry unit

- Manufacturing and cutting all kinds of wooden wedges for docking and undocking
- Opening and closing wooden panels related to the walls and roofs of various vessels
- Installing fiberglass





### Turning unit

- Turning all kinds of impeller shafts in different diameters up to 6 meters in length, all kinds of couplings in heavy-duty crane jacks
- turning all kinds of steel liners
- Turning the rudder shafts
- Turning all kinds of millimeter and inch bolts in each lathe diameter
- Various types of bushes and types of flanges
- Turning the valves of the piping system of large and small vessels
- Cutting all kinds of large and small floating bushes, including ferroform and siknight bushes, orkut , etc.
- Turning all kinds of pump parts
- Cutting all kinds of bronze, steel, brass bushes
- Drilling all parts that is done by drills
- Creating pins and cutting various pins that is done by milling.
- Cutting all industrial parts, rebars, profiles, etc.

### Renovation projects (construction)

- 5 barges with a capacity of 200 tons
- 3 landing craft with a capacity of 1800 tons
- A tug
- A fishing aid float (SKIF)
- A river dredging vessel

### Repair projects

- Types of barges
- Lining Craft
- Tug
- Fishing boats



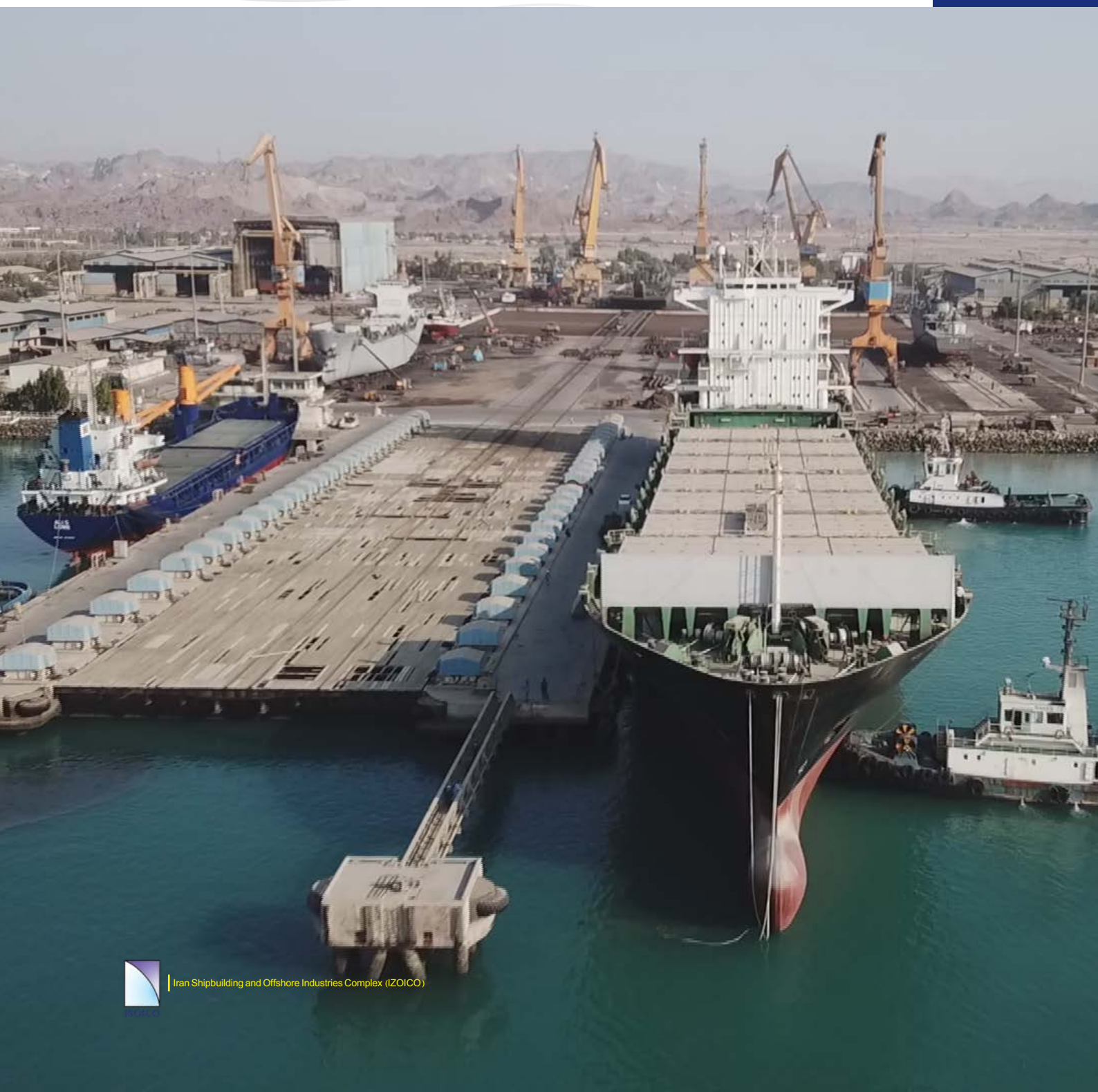


### Medium Vessel Design, Construction and Repair Group:

The group of design, construction and repair of medium vessels has been established in an area of 50 hectares, which is the most complete floating production line in the country.

This complex with numerous and equipped production workshops, advanced facilities and equipment, strong and equipped offices and headquarters units has the ability to design and build various vessels up to a capacity of 35000DWT tons, construct oil and gas rigs, repair floating drilling rigs (JACK UP), specialized, dredging boats, tugs, fishing, barges, landing craft, etc.











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**Facilities and equipment:**

- Shot Blast Workshop
- Cutting workshop
- Panel making and sheet bending workshop
- Sectioning workshop
- Plumbing workshop
- Mechanics and turning workshop
- Painting workshop
- Structural accessories workshop
- Carpentry and decoration workshop
- Aluminum workshop
- Floating parking lots equipped with giraffe cranes with a capacity of 150 tons
- Submersible drainage system with a capacity of 11,000 tons of SYNCROWLIFT type
- Floating mooring pier with a length of 332 meters equipped with a giraffe crane with a capacity of 40 tons
- Advanced bogie machines with a capacity of up to 520 tons

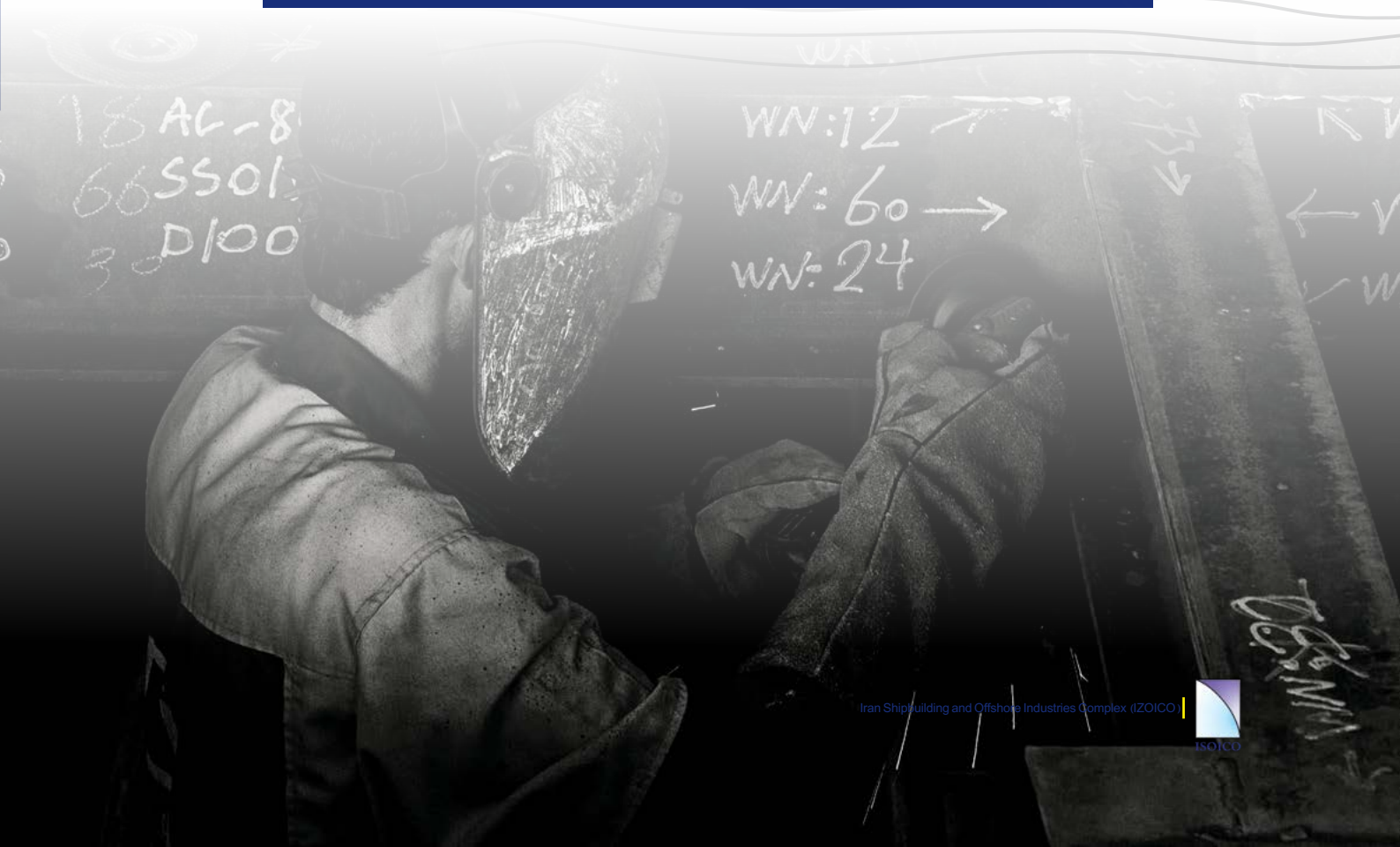


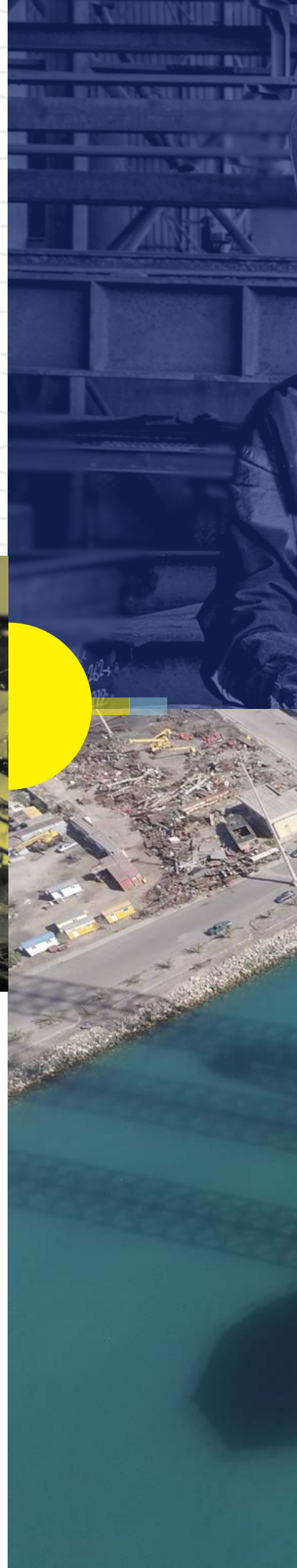
### Capabilities:

- Basic and detailed design of various vessels using software (TRIBON, AUTOSHIP & ANSYS)
- Preparation of workshop engineering drawings and construction by software (TRIBON, AU-TOCAD)
- Construction and repair of all types of vessels up to a capacity of 80,000 tons

### Renovation projects (construction):

- Construction of three container vessels on the ocean liner with a capacity of 2200 TEU under the GL class
- Construction of a tanker with a capacity of 35,000 tons of DWT under class BV
- Construction of a vessel for collecting oil pollution with a capacity of 550 cubic meters under the DNV class
- Construction of a fishing vessel with a capacity of 450 tons of fish, 500 tons of fuel, 350 tons of water with modern refrigeration systems and freezing tunnels





- Construction of three multi –purpose service vessels with a capacity of 300 tons
- Construction of two catamaran landing craft with a capacity of 550 tons (99 cars )
- Construction of a recreational catamaran with a capacity of 300 passengers
- Construction of a 70 –ton Bollard tug
- Construction of barges and barge tankers
- Construction of Hendijan oil platform and South Pars phase 14 platforms

### Completed repair projects:

- Overhaul of container vessels, barges, landing craft, dredgers, tugs, fishing, etc., including paint, body sand blast, shaft and impeller, engine, thrust system, rudder, insulation and decoration, anchor power system, deck and...
- Overhaul of Shahid Modarres Jack up, Mapna 1, Sina 1, Pasargad 100 and Sahar 2





## Large Vessel Design, Construction and Repair Group

The design, construction and repair group of large vessels, one of the ISOICO sub-groups located 37 km west of Bandar Abbas, started its activities in 2008 with the mission of accomplishing dry ponds construction and operation.

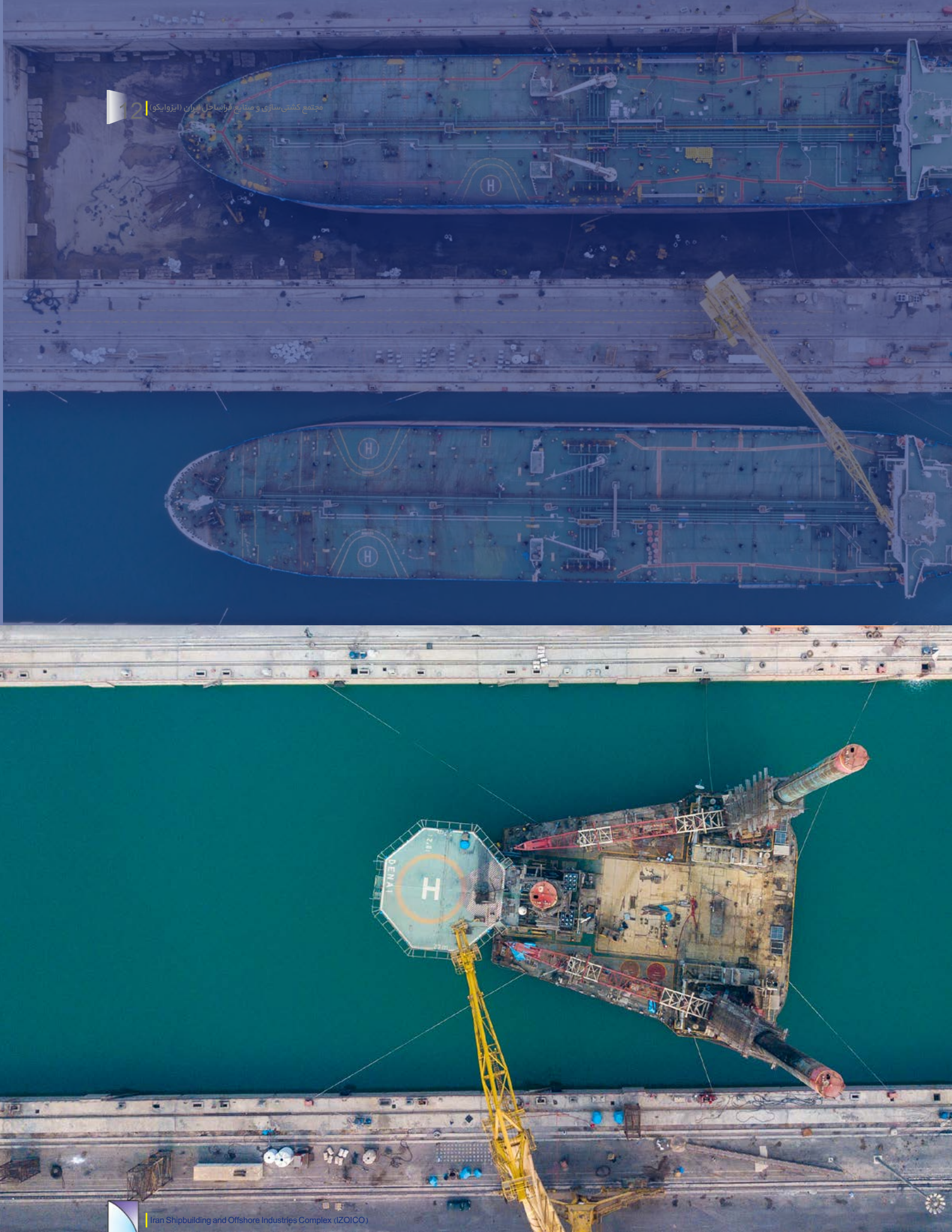
The design of dry ponds with two repair and renovation basins with dimensions of  $14.5 \times 80 \times 375$  and  $14.5 \times 80 \times 475$  meters, respectively, is unique in the country and is one of the largest in the region.

Having one of the largest infrastructure for the repair and construction of a wide range of vessels (oil tanker with a capacity of 300 thousand tons and gas tanker with a capacity of 140 thousand cubic meters) and drilling rigs as well as employing local experts, this group has entered the boat repair market in 2016 after a pilot phase, so that henceforth, the country's maritime industry be ready to provide services to domestic and foreign customers with more capacity.

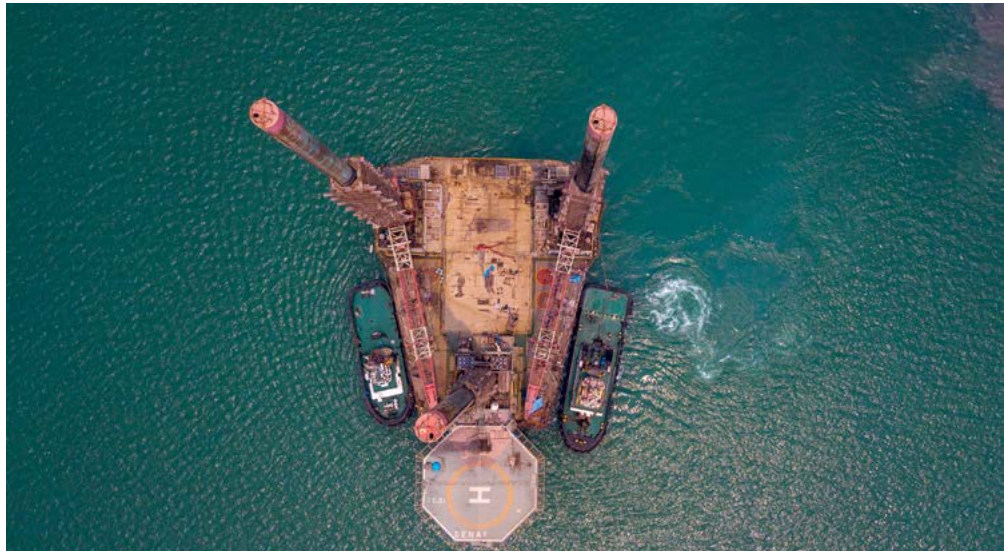
The design, construction and repair group of large vessels, relying on facilities such as dry basins, new machinery and equipment, and staff with sufficient specialized knowledge in the field of shipbuilding, has created this capability in both repairs and modernization fields to put large projects on its agenda and respond to applicants' demands in various fields including technology, engineering and support.













## Technical specifications of the main components of the plan

### Technical specifications of dry basin

#### ● Dry basin dimensions

A: Karkheh dry basin: Length: 475 meters Width: 80 meters Depth: 14.5 meters

B: Karun dry basin: Length: 375 meters Width: 80 meters Depth: 14.5 meters

#### ● Largest size of ships acceptable for repair and modernization:

Dry basins and repair and renovation workshops are designed to build and repair the largest size of VLCC and ULCC vessels and liquefied petroleum gas vessels and bulk carriers.

#### ● Tide conditions in the factory pond:

HAT Southern high tide HHW Highest tide MHHW Medium Highest tide CD (datum chart): benchmark

#### ● Discharging time:

A: Karkheh basin:



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- Completed : 5.5 hours , no ship inside the dock
  - In highest tide , 3 hours by ship inside the dock
- B : Karun basin :**
- In highest tide : 4.5 hours , no ship inside the dock
  - In highest tide 25 / hours , with the ship inside the dock

#### **Industrial equipment:**

- **Compressed air system**  
air compressor
- **Salt water pumps**  
Public service pump  
Ballast water pumps

#### ● **Fresh water tanks**

Main tank  
Daily consumption tank

#### ● **Fresh water pumps**

Freshwater pumps for ponds  
Factory fresh water pumps

#### **Relevant facilities:**

#### ● **Sanitary sewers**

Sewage transfer pumps  
Oil water separator  
Oil – contaminated water transfer pumps  
(home pump )

● **Liquid oxygen tanks**

Main tank

Small tanks next to the docks

Tank between 2 docks

Average oxygen pressure in all directions

● **Main electrical power**

Post 2063 /

Post S1 Post S2 Post S3 Post S4







### Persia Hormoz Repair Company:

Persia Hormoz Complex provides general services, sheet replacement, sandblasting, painting, service, pipe replacement, valves, shaft and propeller systems, pumps, electrical systems, generators, original motors and navigation to vessels up to a capacity of 80,000 DWT.

#### Facilities:

- Four parking lines with dimensions of 200 x 30 meters, equipped with a 40-ton crane
- Lifting system (SYNCROWLIFT) with dimensions of 32 \* 172 meters with floating lifting capability up to 11000 tons
- FLOATING DOCK system with dimensions of 42 \* 240 meters with a lifting capacity of 28,000 tons for ships with a capacity of 80,000 DWT
- Repair pier with a length of 340 meters equipped with a 40-ton crane (TAKRAFT) for unloading, loading and repairs
- Two repair piers on both sides of the lift system (SYNCROWLIFT) with a length of 172 meters
- Unloading, loading and repair pier with a length of 180 meters
- Sheet metal, pipes and valves, machining and electrical workshops
- Facilities for sandblasting and metalworking 24 hours a day







## Oil and gas group and design, construction and repair of coastal and offshore structures:

### ● Mobin Sazeh Gostar Company (MSG)

ISOICO has been active in offshore projects since 2001 and has experienced a variety of platform construction projects.

The rapid growth in demand in the offshore platform industry has led ISOICO to establish a professional company specializing in offshore oil and gas projects.

At the same time with the start of the South Pars Phases 12 and 16 project, Mobin Sazeh Gostar Persian Gulf Company was established and organized in 2008.

Due to the successful history of the South Pars Phases 1, 6, 7 and 8 project and having skilled and specialized workforce and modern workshop facilities available in Iran, the company continued its activities with projects 12 and 16 of the Hendijan oil field. Organizing an efficient and agile structure with advanced machinery and equipment allowed Mobin Sazeh Gostar Persian Gulf to grow and be one of the best options for its employers in the current market of offshore industry.

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### Main activities and scope of services:

- EPCI Contractor for offshore oil and gas projects including engineering, procurement, construction, transportation, pre-commissioning and installation of offshore platforms
- EPCI Contractor for offshore pipelines and cabling
- EPCI Contractor for the maintenance of offshore structures
- EPCI Contractor for Dismantling and Recycling of Defective Platforms
- EPCI Contractor for Offshore Oil and Gas Projects
- EPCI contractor for making jack-up drilling rigs
- Shipping and offshore installation operations
- Repair, maintenance and reconstruction of offshore platforms



### Capabilities:

● Engineering, Procurement, Construction, Shipping, Installation, Commissioning

### Facilities:

#### workshops:

● 1 – Main workshop: (7500 square meters)

4 overhead cranes

Cutting and chamfering machines, welding machines and ....

● 2 – Pipe cutting and chamfering workshop: (600 square meters)

Ability to cut pipes up to 2000 mm thick

3 Miller machines

2 overhead cranes

● 3 – Plumbing workshop: (1920 square meters)

2 overhead cranes with a capacity of 25 tons

Welding and chamfering machines

Mechanical workshop (1200 square meters)

### Open construction area: (100,000 square meters)

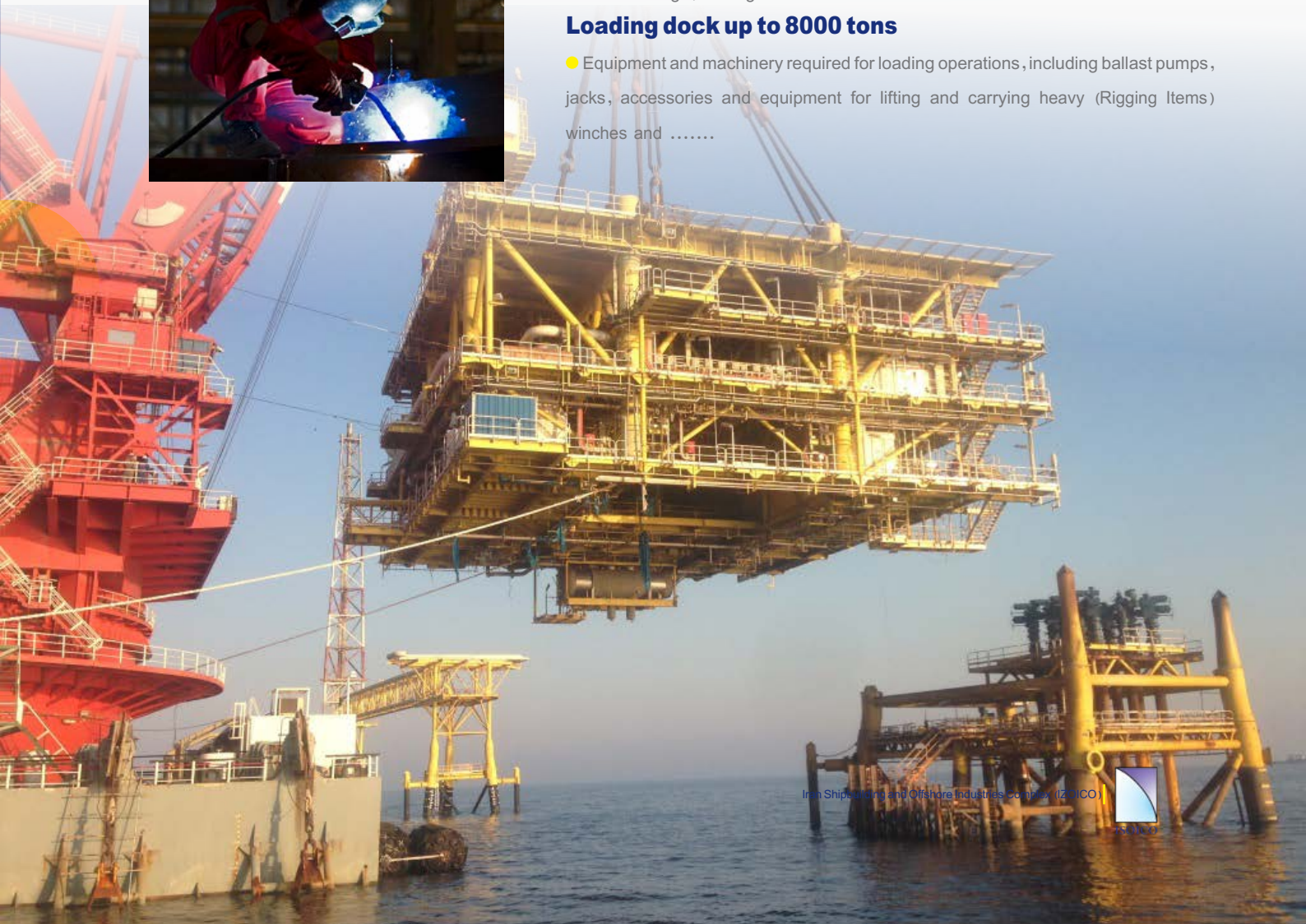
7 mobile cranes with a capacity of 200 to 300 tons

Forklift machine

Material storage, moving and control device

### Loading dock up to 8000 tons

● Equipment and machinery required for loading operations, including ballast pumps, jacks, accessories and equipment for lifting and carrying heavy (Rigging Items) winches and .....







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- Two skid way (with the length of 120 meters and 200 meters) with a load bearing capacity of 4000 and 8000 tons
- High pressure power substation
- Fire safety and extinguishing systems
- Management and engineering offices: 3500 square meters
- Accommodation and rest facilities for 500 people

### Completed and ongoing projects:

- Design and development of South Pars gas field – Jacket phase 1
- Design and development of South Pars gas field – phases 2 and 3

- South Pars gas field development plan for jackets phases 6, 7 and 8
- South Pars Jacket Phase 12
- Phase 16 of South Pars
- Offshore platform
- South Pars phase 17 and 18 satellite platforms
- EPC Contractor for Phase 14 of South Pars Gas Field Development Project
- Hendijan Offshore Complex Development Project
- Hengam offshore development plan project
- Forouzan oil field development plan



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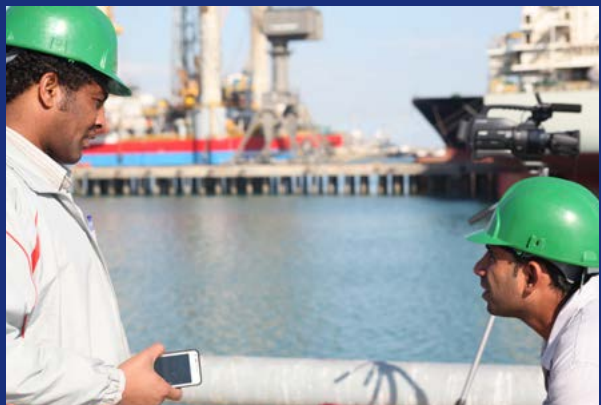
















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