



**Public Relations of  
Iranian Oil Terminals Company**

**[www.iotco.ir](http://www.iotco.ir)**



**NATIONAL IRANIAN OIL COMPANY**

**IRANIAN OIL TERMINALS COMPANY**





## IRANIAN OIL TERMINALS COMPANY

Despite the economic and political bottlenecks and strains imposed on the macroeconomic system, the Iranian oil industry has been able to take the path of progress on the basis of its specialized capabilities and the scientific knowledge of its endeavors, and to promote the growth, prosperity and advance of the Islamic Republic of Iran. The future development path will continue, and today, despite the many challenges and international pressures, it has brought great achievements to the country, relying on domestic power in all fields of science and technology. The insightful instructions of the Supreme Leader and his attention to self-reliance and self-sufficiency in all scopes of oil industry have provided ground in drawing up a bright horizon and implementation of a scientific model in Iranian Oil Terminals Company in order to allow the country witness significant achievements in the area of identifying local powerful producers, localization of necessary parts and facilities in the area of reserving, measuring, marine services, crude oil, oil substances and gas liquefied gas exports operations through alignment with promoting the decision making processes in adopting approaches in reducing the costs and optimized use of financial resources by reliance on collective thought and wisdom as well as establishing specialized committees in key areas. The Iranian Oil Terminals Company, with the right and determination, thought and collective effort of all the aspiring collaborators as well as the support of the top managers of the oil and gas industry, while concentrating on its main missions in the operational and specialized fields of receiving, storing, measuring, exporting And the import of crude oil, petroleum and gas condensates, with a systematic and modern management approach and strategic thinking, in addition to recording significant records in the field of export of crude oil and gas condensate, in the field of domesticization of goods and equipment required for operation of oil terminal terminals, effective steps and Positive has been taken.

### Managing Director's Message

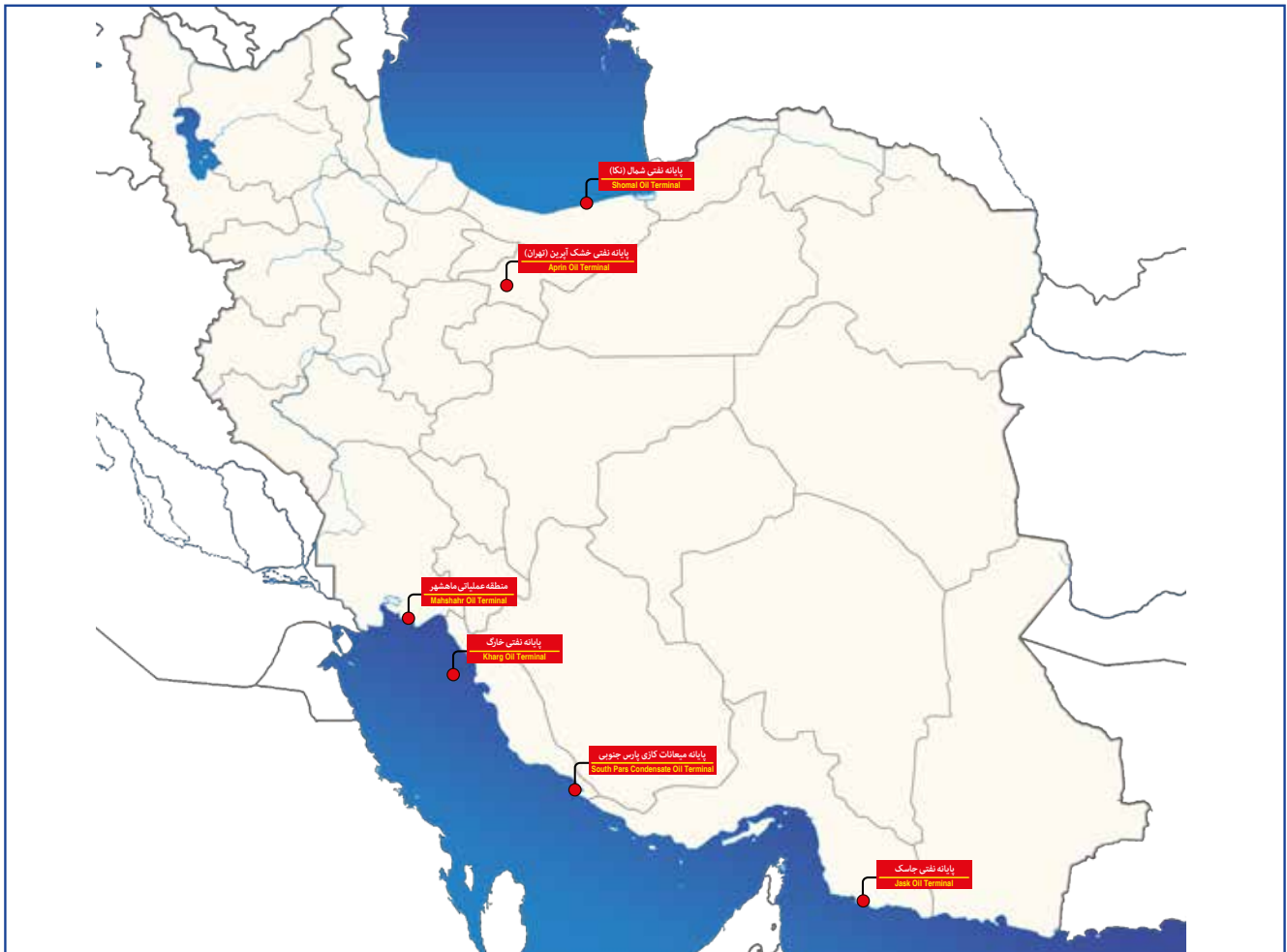


**Abbas Asadrooz**  
Managing Director



## Iranian Oil Terminals Company

The Iranian Oil Terminals Company as one of the companies under umbrella of National Iranian Oil Company is an operational, specialized and professional organization that has the duty of all reservation affairs, crude oil, oil products, liquefied gas and marine services export and import operations along with providing measurement and lab services. This important task is under implemented by aiming at support and sustained continuation of oil and gas production in the country in four operational zones of Kharg Oil Terminals, North Oil Terminals (Neka), South Pars condensate terminal Oil Terminals and Mahshahr operation area through performing receiving, storage, blending, measuring, the quality and quantity measurement, loading and discharging (export and import) of crude oils and oil products (SWAP), the berthing and oil vessels operations, which has led to the completion and promotion of oil and gas value chain as well as playing a worthy role in the sustainment and flexibility of the national, regional and international energy supply chain.





## Kharg Oil Terminal

Kharg Coral Island was formed by tectonic movements. This island has 35 kilometers distance from Genaveh coasts and in terms of geographic divisions, it is a part of Boushehr Town. This island has 8 kilometers length and 4 kilometers width. The altitude of the Island from sea level is around 3 meters. Its weather is humid and is mostly associated with tropical winds. Due to its close distance to oilfield regions, its good offshore position and suitable depth for gigantic oil vessels berthing, Kharg Island has been recognized as the most suitable place for crude oils exports and loading site, and after concluding contract with oil consortium, the project of developing loading jetties and crude oil reservoirs was initiated in it. Kharg terminal was run by South Oilfields Regions Company.

In order to organize the entire oil terminals of the country, specialized and integrated management and promoting their performance to the international standards of oil terminals, the Iranian Oil Terminals Company was established in 2000.



## Eastern Jetty (T)

In the 1950s, after the contract with the oil consortium and the start of projects for the construction of crude oil storage tanks and loading berths, the eastern jetty was first made in the form L and then completed in form (T). The jetty is capable of simultaneously berthing 6 tankers up to 275 thousand tons.



## Western Jetty (Azarpad)

Azarapad jetty is located in the west of the island and in the sea at a distance of about 1455 meters from the coast with four harbors. This jetty is used for berthing and unberthing oil by tankers of up to 500,000 tons capacity. AzarPad is equipped with advanced navigation system, automatic and semi-automatic fire fighting system, and fuel rotation and heating system. At the moment, this jetty is capable of berthing 3 tankers of 300,000 to 500,000 tons at a time.

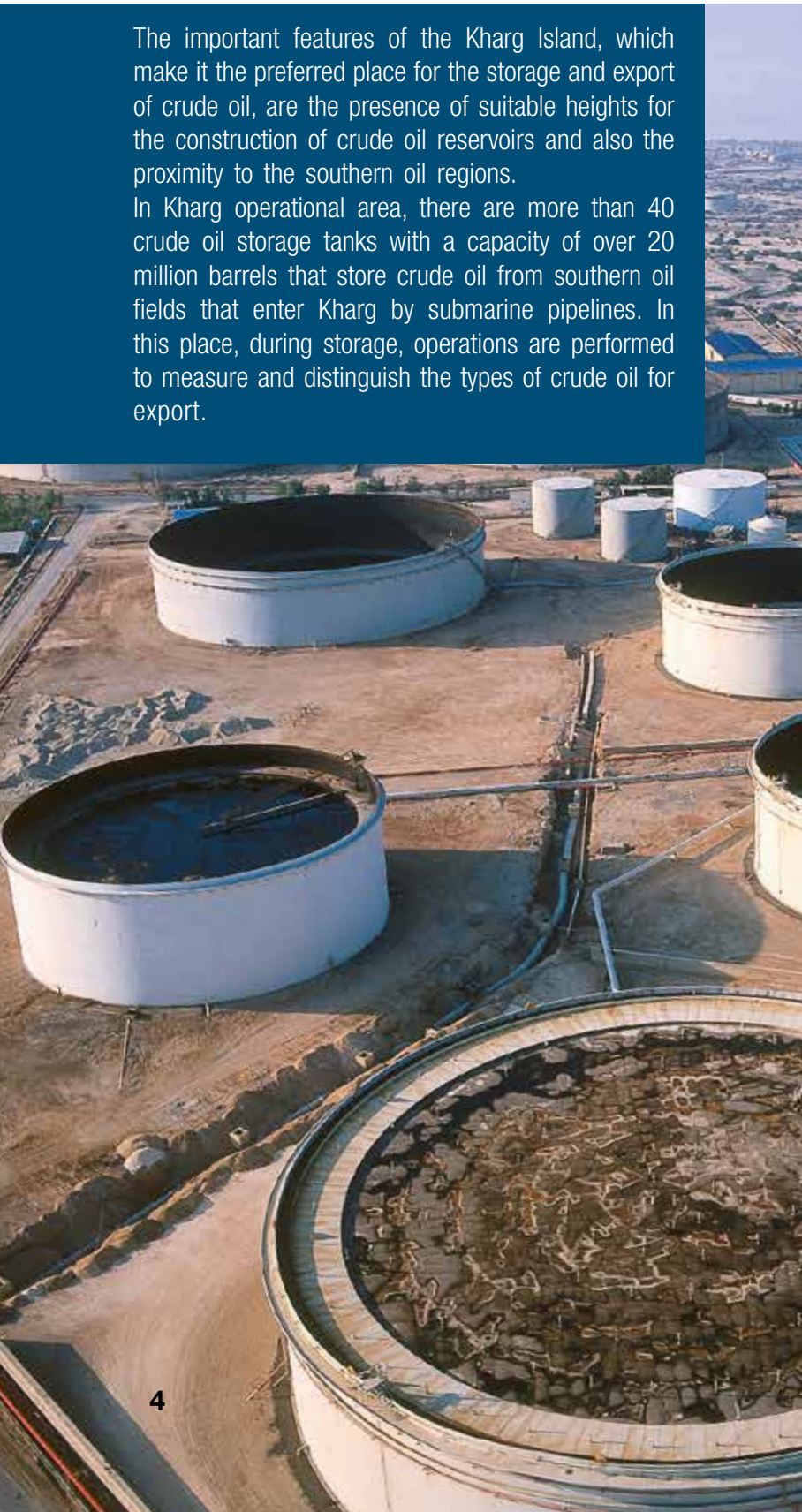
AZARPAD



## Crude Oil Storage

The important features of the Kharg Island, which make it the preferred place for the storage and export of crude oil, are the presence of suitable heights for the construction of crude oil reservoirs and also the proximity to the southern oil regions.

In Kharg operational area, there are more than 40 crude oil storage tanks with a capacity of over 20 million barrels that store crude oil from southern oil fields that enter Kharg by submarine pipelines. In this place, during storage, operations are performed to measure and distinguish the types of crude oil for export.



## Chemical Department

Maintaining and controlling the quality specifications of crude oil in the range of international standards are very important factors in safeguarding the high value installations in production chain, processing, transporting, exporting and refining crude oils and oil products; and it is necessary to permanently control and supervise the quality of crude oil by the developed planning and constant cooperation of operational sectors. This task is performed by chemical labs. In fact, the quality control lab in oil terminals is considered as a key factor for proper operation of valuing system of exports products.

The Iranian Oil Terminals Company lab as a source in performing the relevant tests for identifying oil products and derivatives compounds, by employing international methods such as ASTM, IP, API is one of the powerful arms in oil terminals in the chemical department of this complex which works in line with the realization of large-scale goals of the company. This lab was established in 1964 and was reconstructed in 1990. Its area is 1420 square meters. In addition, this lab was internationally registered as reference lab and among competent international labs by obtaining the international permit and ISO/IEC17025 certificates in crude oil, oil products and water analysis from international institutes.





## The Process Of Operation Of Crude Oil Export From Kharg Oil Terminal

The oil produced from the oil-rich areas in the south is first transported by pipelines from the Ahvaz, Omidyeh and Gore pump houses to Ganaveh port, and then imported to Kharg Island by submarine pipelines. ▼



▲ Crude oil is stored in storage tanks located at the highest point of the island, in order to carry out the operations necessary for preparation for export.

Receiving, storing and exporting crude oil is managed by the experts of the crude oil export and loading operations department. ▶



Crude oil flows through the outlet of the tanks through two separate 78-inch pipelines to the west pier (Azerpad) and through four 48-inch pipelines to the east pier (T). ◀

The process of receiving and transferring crude oil to tankers is managed and controlled by metering systems near the loading docks. ▶



◀ In the last step, the crude oil is loaded into the tankers through loading arms installed on the export berths.



## IRANIAN OIL TERMINALS COMPANY

### North Oil Terminal (Mazandaran Province - Neka)



The Islamic Republic of Iran's strategic location near the Mazandaran Sea and its key role in the transfer and transit of crude oil from Central Asian nations to other countries made it necessary to build the North Oil Terminal at Behshahr Port (NAKA). The terminal, located on the seaside 22 km from the city of Neka, was established with the primary goal of accepting, storing, processing, and transferring crude oil from the Caspian Sea countries under the name of a swap scheme.

### Jask oil terminal (Hormozgan province)



The Ministry of Petroleum and the National Iranian Oil Company have undertaken conceptual and preliminary studies for a strategic plan to construct an oil terminal in Jask port - one of the most important national projects. The pipelines, tanks, and all related facilities are now being constructed and are set to become operational soon. Oil exports via this terminal will be facilitated by the use of floating spheres (SPM).

### Aprin Rail Oil Export Terminal (Tehran Province)

As part of its development plan, the company has taken into consideration the challenges and limitations faced by sea ports in the transportation industry, such as insufficient unloading/loading space or inadequate access to cargo destinations. To overcome these limitations, the company has established dry ports. Dry ports are multi-purpose inland ports that are directly connected to sea ports through road or rail links and serve as a center for transferring goods to different destinations. Iran's first dry port, Aparin, spans a land area of one thousand hectares, of which a part has already been put into operation. Several development phases have been defined across multiple industries, including the oil industry, to ensure its completion.





Currently, new systems have been installed in the South Pars terminal to facilitate gas condensate exports, and transfer of the gas to ships is carried out by the use of floating spheres (SPM). The company overseeing the terminal is now responsible for the final operation of the centralized storage tanks, as part of the ongoing integration efforts for oil terminals.

### South Pars Gas Condensate Ground Loading Facility (Asaluyeh)



In a bid to diversify the operations of the South Pars Gas Condensate Terminal, the Ministry of Oil and the National Iranian Oil Company have decided to transfer the ground loading facilities for oil products from the Oil Products Distribution Company to the Iran Oil Terminals Company in 1401. These facilities are now used for loading gas condensate onto tankers that are transported to refineries within the country via ground transportation. The ground loading facility for gas condensate, which is located in the Asalouye region of South Pars site 1, has an approximate daily capacity of 20,000 barrels. Plans to develop this terminal to a capacity of 100,000 barrels for loading are currently under consideration.

### Operation area of Mahshahr (Khuzestan province)

At present, the main focus of the Terminals Company in Mahshahr is on marine operations, specifically the docking and separation of finished ships for Abadan Oil Refining Company. With future projections and plans to expand the company's activities to include exporting oil, gas, and petrochemical products, Mahshahr Terminal is expected to become one of the most active operational areas of the Iran Oil Terminals Company.





## Social Responsibility

The Iranian Oil Terminals Company has effectively fulfilled its social responsibilities to achieve the important missions of the oil industry with the support of the National Iranian Oil Company. Through public benefit projects, the company has provided significant services in the areas such as education, green space development, sea freight transportation services, and passenger vessel traffic management for routes like Kharg, Ganaveh, and Bushehr. Additionally, the company has equipped hospitals to provide medical and health services, conducted extraordinary flights (per local weather conditions), provided water, electricity, and urban sewage services, collected, separated, and recycled municipal waste, and provided welfare services and environmental protection to residents living around its industrial facilities.



## Investment opportunities in Iran Oil Terminals Company

Iran Oil Terminals company's activities also include updating and renovating storage tank infrastructure in addition to crude oil and gas condensate export docks based on international standards. Significant investment opportunities are available for both domestic and foreign companies interested in the operational areas of this company.

## Technological needs of Iran Oil Terminals Company

- Design and manufacture of electronic cards
- Descaling of crude oil storage tanks
- Inspection of underground pipelines that cannot be flushed
- Inspection of non-inspectable submarine pipelines
- Optimal and effective methods of preventing sediment formation in oil tanks
- Implementation of energy consumption optimization plans
- Oil pollution cleanup plans
- Production of Fast Cure Marine Paints
- Leak detection of oil and gas pipelines
- Soil amendment services
- Construction of desalinated water (RO)
- External inspection of Rosmin pipelines
- Overhaul of storage tanks and floating spheres (SPM)
- Construction and basic repairs of loading arms (Loading Arms)

