



NATIONAL IRANIAN OIL COMPANY

IRANIAN OIL TERMINALS COMPANY



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Designed by Hamed Shahrabi



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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 domestication of goods and equipment required for operation of oil terminal terminals, effective steps and Positive has been taken.

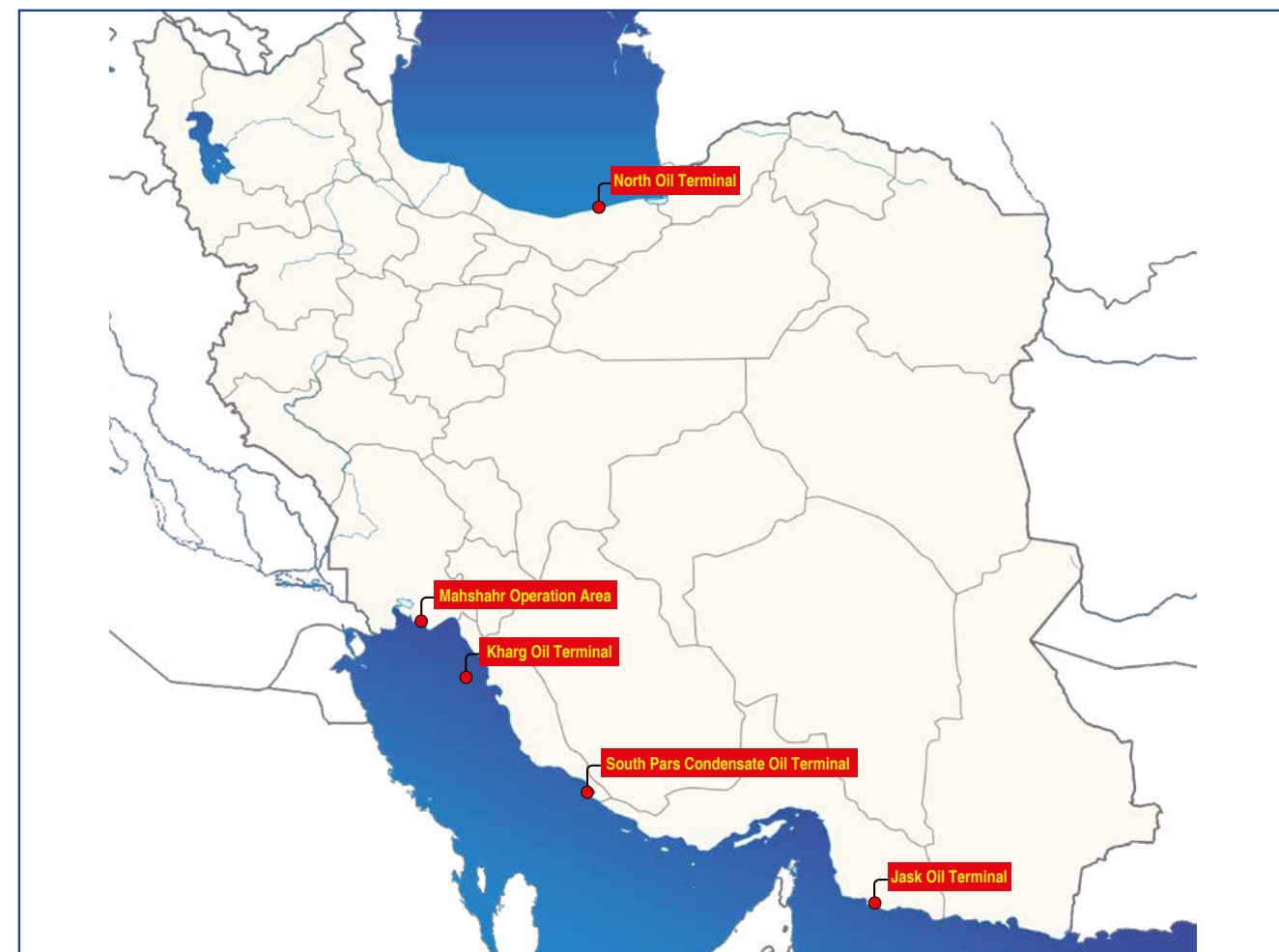
**Abbass Asadrooz**  
Managing Director

### Managing Director's Message



### 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.

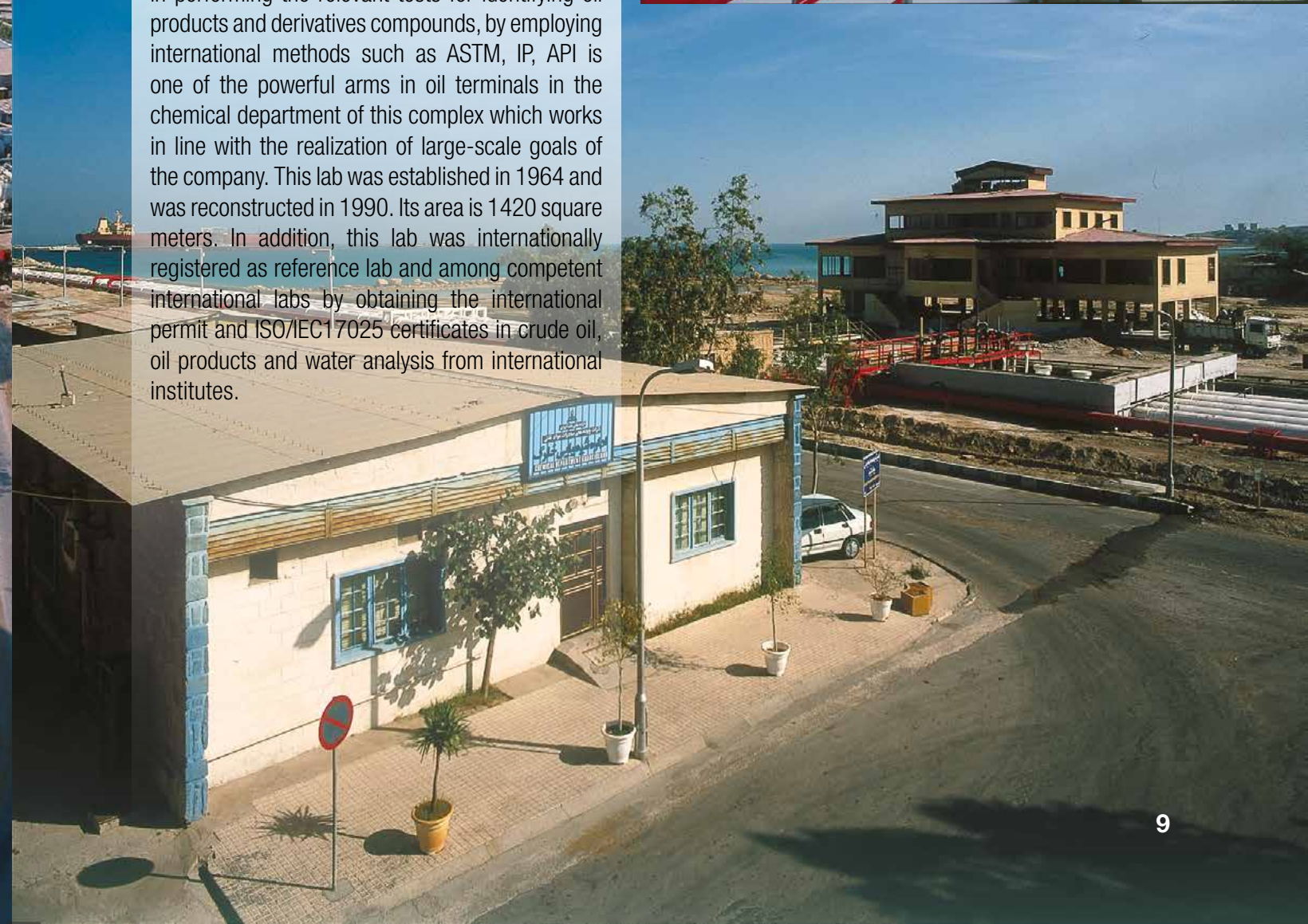
In Kharg operational area, there are more than 40 crude oil storage tanks with a capacity of over 20 million barrels that store crude oil from southern oil fields that enter Kharg by submarine pipelines. In this place, during storage, operations are performed to measure and distinguish the types of crude 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/IEC 17025 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 southern oil fields is first transported by pipelines from the Ahwaz, Omidieh and Gurreh pump stations to the Genaveh shores, and then by the submarine pipelines on the sea bed, passing a distance of about 32 km to the island of Kharg.



◀ Crude oil submarine pipelines land on the northern coast of the Kharg island.

Receiving, storing and exporting crude oil is managed by experts from the Export and Import Operations Department



Crude oil flows through the exits of the storage tanks through separate pipelines to the western jetty (Azarapad) and the eastern jetty(T).



◀ The process of receiving and transferring the crude oil to Tankers is measured and controlled by metering systems adjacent to jetty.

At the last stage, crude oil enters the tanker through the loading arms mounted on jetties.



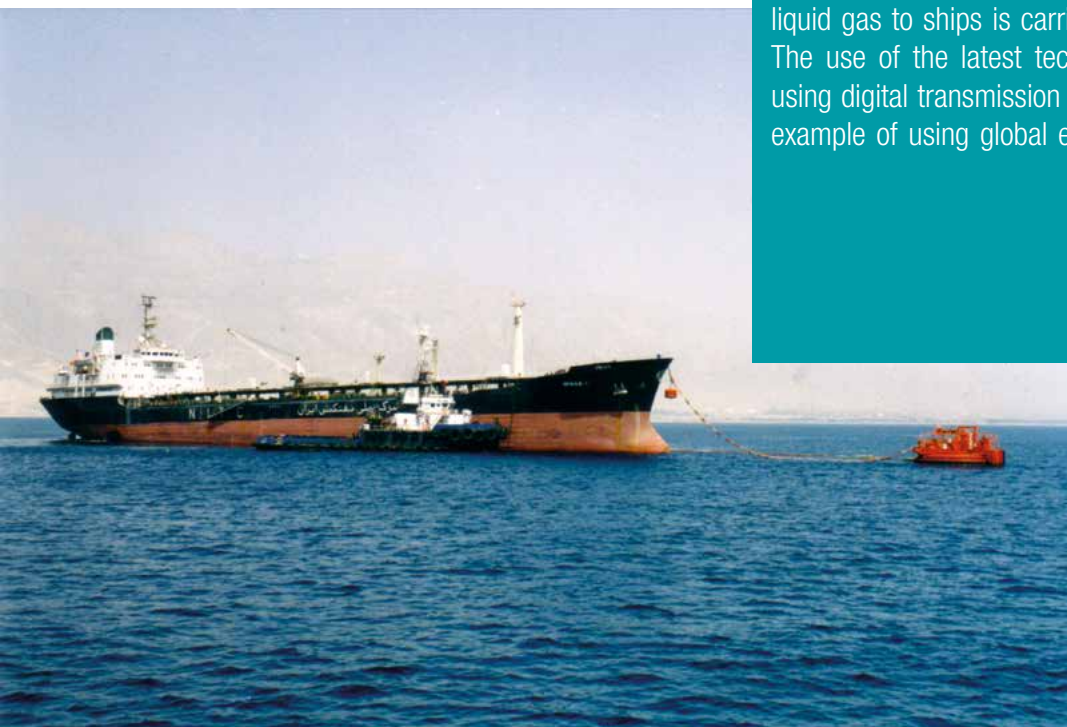
▶ Crude oil is stored in storage tanks located at the highest point of the island, in order to carry out the operations necessary for preparation for export.





### South Pars Condensate Terminal

Iranian Oil Terminals Company has the responsibility of exporting condensate in Pars Energy Special Zone. Currently, at the South Pars station, new systems for the export of gas condensate have been launched, and the transfer of liquid gas to ships is carried out by floating balloons (SPMs). The use of the latest technology for measuring condensate using digital transmission systems has proven to be a perfect example of using global ethernet systems.



### North Oil Terminal (Neka)

Due to the strategic situation of Islamic Republic of Iran in the margin of Mazandaran (Caspian) Sea and playing a core role in the transport and transit of crude oil of Central Asian Countries to other countries of the country, basic and infrastructural activities have been carried out in Behshahr Port (Neka). The terminals developed in this port are in 22 kilometer distance of Neka Town in the sea bank.







### Mahshahr Operation Area

Storing the products of Abadan Refinery and exports and imports of different products are carried out at Mahshahr operation area. Presently, most activities of terminals in Mahshahr focuses on marine operations (berthing and separating vessels for products), providing safety services, search and rescue in Abadan Oil Refinery. Based on the predictions and next programs, in line with developing the company's activities in different sectors of exporting oil, gas and petrochemical products, Mahshahr Terminal will become of the most active terminals of the company.



### Jask Oil Terminal

Iranian Oil Terminals Company has studied and adopted actions on conceptual and preliminary studies of the strategic plan for establishing oil and gas terminals in West of Jask Town as one of the most important national projects.

In this strategic terminal, following installations will be designed:

- Crude oil storage tanks in 10 million barrels capacity, to be developed up to 30 million barrels
- Jetties and SPMs for exporting 2 million barrels crude oil per day
- Procurement harbor for offshore support of oil region
- Power generation and distribution systems for the region
- Organizational residential towns including residential, administrative, health, sanitary, recreation and disciplinary buildings
- Suitable airport for oil terminals

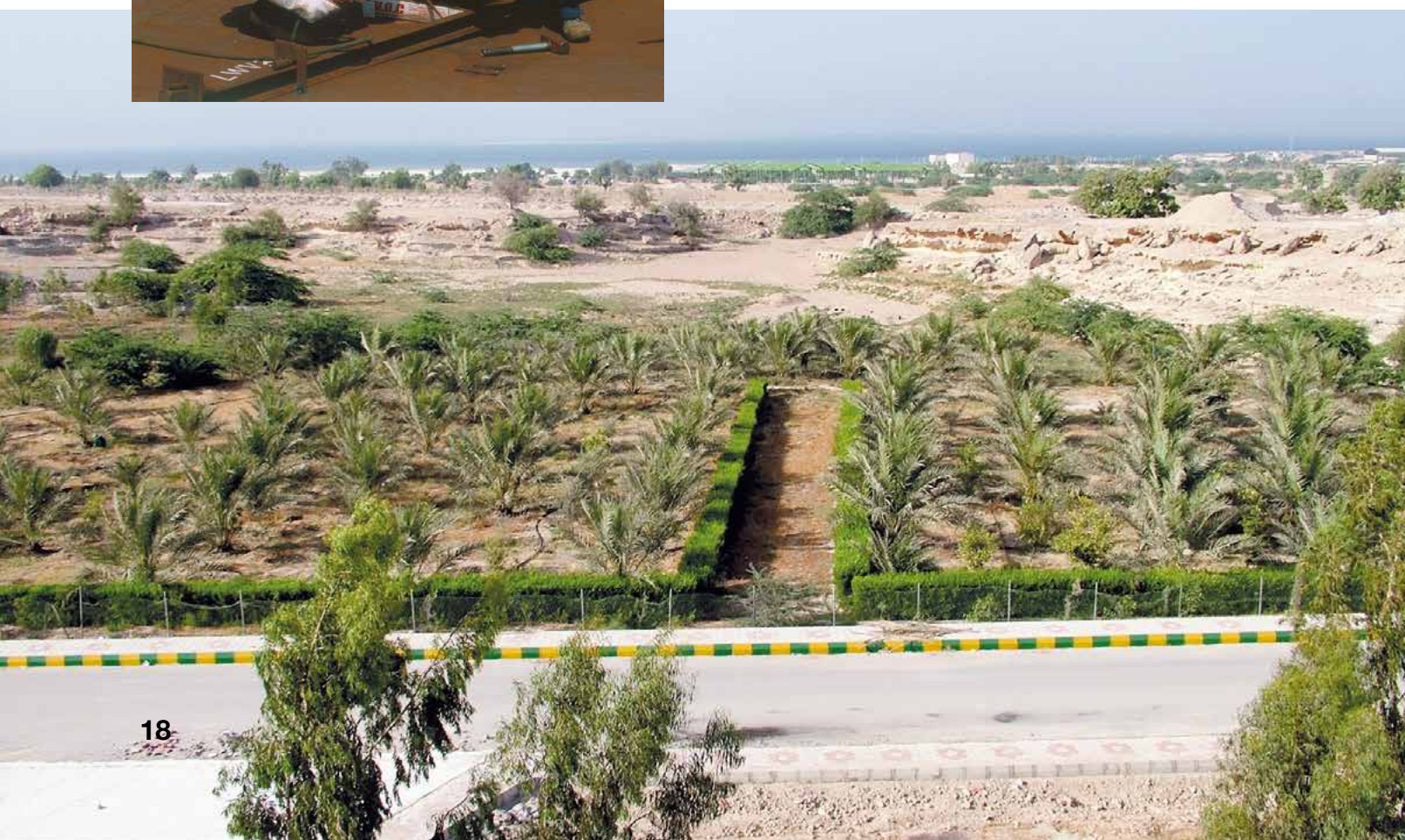






### Health, Safety, Environment And Passive Defense

By aiming at the constant improvement and promoting HSE management, Iranian Oil Terminals Company is committed to take corrective measures for omitting, controlling risks, improving operational and service processes in its agenda by creating a safe environment free from mal effects on human forces.



### Social Responsibility

Iranian oil terminals company has not neglected its social responsibilities in the field of important oil industry missions. In the form of public utility projects, the company has significant services in the field of educational services, green space development, sea transportation services, collecting and recycling of municipal waste, welfare services and protection Provides the environment to residents around its industrial facilities.







## Research And Investment Opportunities At Iranian Oil Terminals Company

Construction of power plant  
(Sustainable supply of industrial and non-industrial areas)



An important part of the activities of the Iranian Oil Terminals Company is focused on updating and modernizing storage facilities and export infrastructure for crude oil and gas condensate based on international day standards. In this context, significant investment opportunities have been provided for domestic and foreign companies in the operational areas of the company.

- Design and manufacture of electronic cards
- Upgrading the system of purifying water contaminated with oil (WWT)
- Application of modern inspection methods for equipment and pipelines
- Use of renewable and environmentally friendly energies to generate electricity
- The use of modern equipment in berthing / unberthing the tankers.
- Providing new methods to prevent oil sludge
- Metering system
- Floating and submarine hose

Maintenance and repairs of storage tanks, jetties, SPM

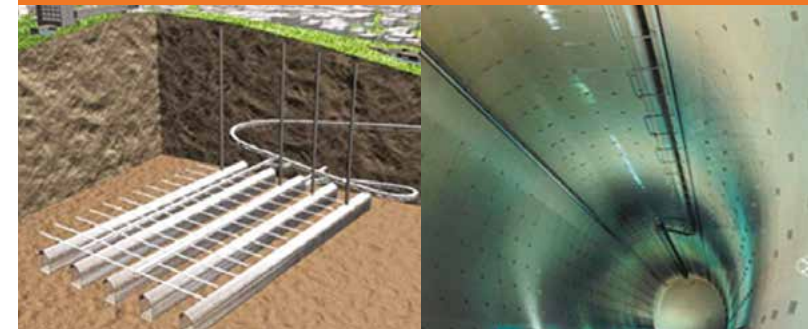


Construction and overhaul of the  
loading arms and jetties

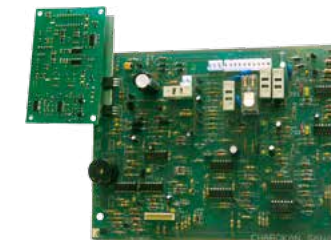


## Research And Development Achievement

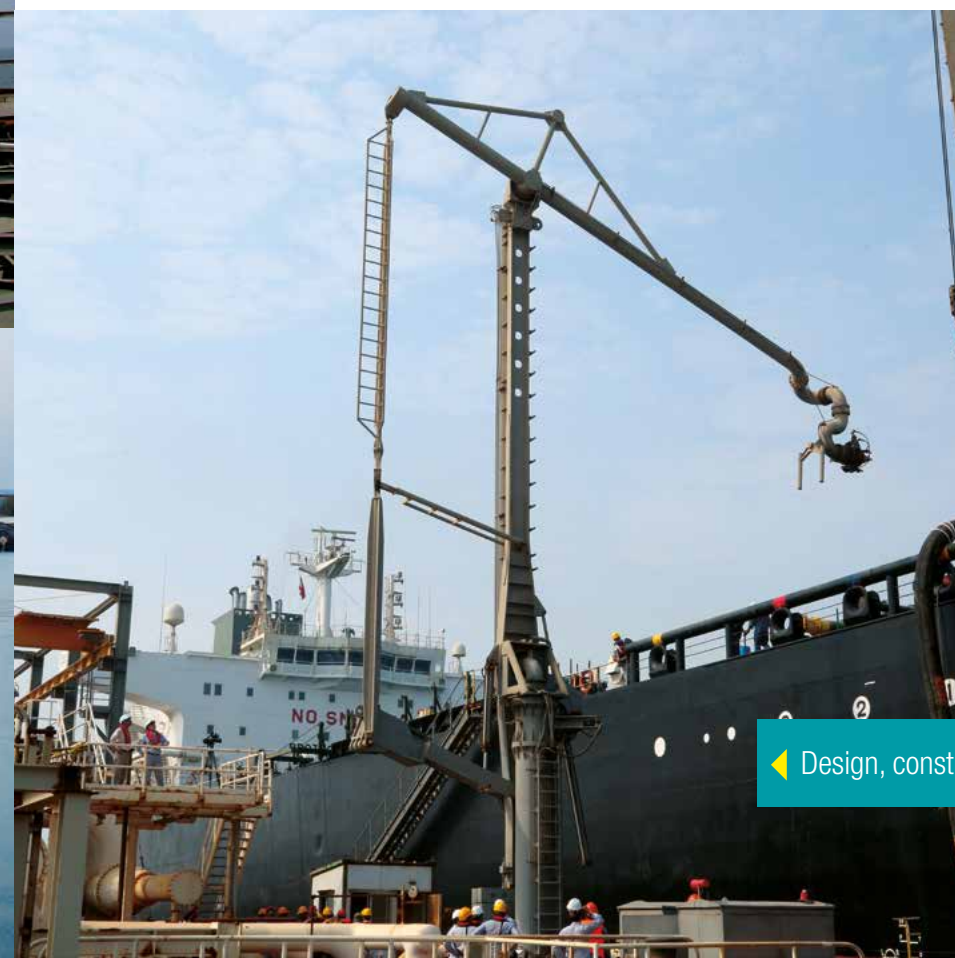
Feasibility study for the construction of underground reservoirs in Iran for the storage of crude oil



Designing and manufacturing of  
electronic cards for Flow PC and  
HART Modem, Mittering No. 1,  
Assaluyeh terminal and controller  
cards of Automatic sampling  
system for North Oil terminals and  
Assaluyeh



Design and production of a microbial powder  
sample for the elimination of oil pollution and  
the development of technical knowledge and  
the production of disperse matter of biological  
oil spill (Bio-OSD)



Design, construction and installation of loading arm