



NIORDC
National Iranian Oil Engineering
& Construction Company



**Company Profile
Plans and Projects**



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IN THE NAME OF GOD



● Managing Director's Message

In order to benefit from the world of creation, human beings contrive to meet their own needs and make continuous efforts, discoveries and constructions to reach the peak of their progress and prosperity through the gifts of reason and the power of their choice as well as by modeling on the world of creation. It is based on these basic principles that human beings are in need of resources and the driving force even in the smallest human actions to achieve the desired goals.

In addition to creating a new social identity and a novel world, the Islamic Revolution of Iran commenced a history-making movement through the synergy and integration between social, ideological and cosmological forces in 1978 which led to the formation of ideals, the realization of which required a firm resolution, power and belief. Such ideals led to a rereading of the notions of jihad and martyrdom, which has been used since the beginning of Islam to protect the spiritual unity and the Islamic government as the only strategy for change.

Jihadi thought is subject to an intellectual and cultural framework in which the preservation of the values and fundamental principles of the Islamic worldview are the basis of its models and theories. The world is fleeting and ephemeral in the Islamic worldview, in which the best choice is to use time for salvation. The main path in this world is man's journey from Creation to the Creator.

It is in line with this thought that the true value of world-specific phenomena and events is revealed, and the real force is spent on actions that seek the salvation of man. Alignment of forces in the use of resources to create a superior and better life for human beings is the basis of Jihadi thought.

Jihadi management applied in plans and projects is derived from the same approach and thought. Preventing the waste of resources and capital, achieving goals in the fastest time and through the shortest possible route, and creating the tools of independence and national identity to protect against the onrush of conflicting factors are regarded as the main frameworks of Jihadi management of plans and projects. The ultimate goal in such an approach is, without doubt, to create the highest added value in order to gain a share in national authority and prosperity.

Farhad Ahmadi
Managing Director



History

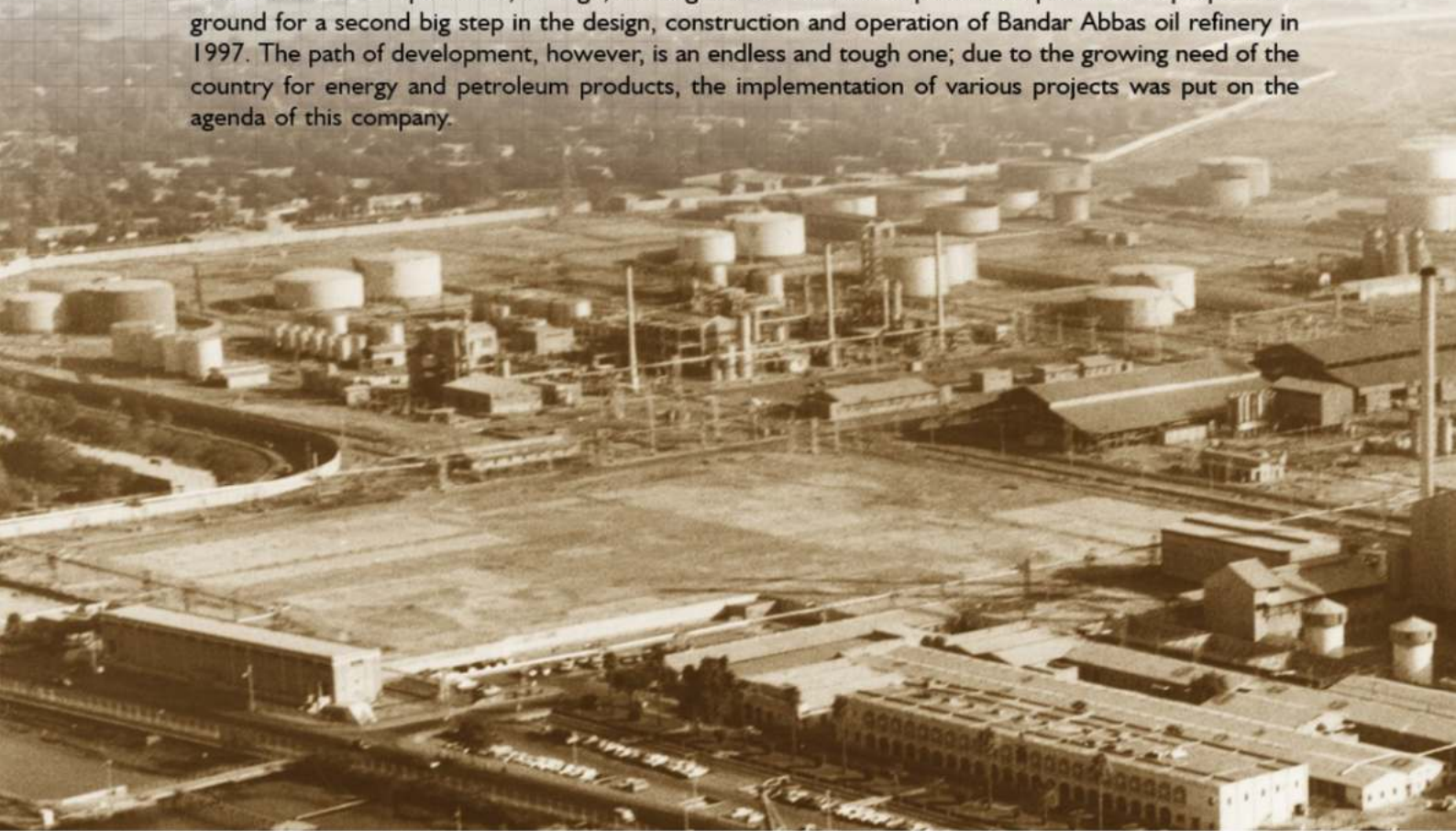
Necessity is the mother of invention and development. Simultaneously with the establishment of the automotive industry in Iran and at the beginning of the 1340s S.H. (March 1961, 21 – March, 20 1971), a new member was created in the National Iranian Oil Company entitled «Special Projects Management» to play a role in the implementation of basic projects of the petroleum industry, including the design and construction of refineries, oil depots and outlets for the sale of petroleum products and the implementation of national oil and gas transmission pipelines, design and construction of refineries No. 1 and 2 in Tehran in 1965 and 1976 by developing integrated management and engineering networks.

The major design and implementation activities which had been carried out by foreign companies were undertaken by local experts subsequent to the glorious victory of the Islamic Revolution. Self-sufficiency in the petroleum industry and the transfer of technical knowledge into the country were thereupon considered to be important in line with the general policies of the Ministry of Petroleum of the Islamic Republic of Iran.

Managers of the petroleum industry took the first big step in the development of downstream petroleum industries by starting the design, construction and operation of Arak oil refinery with the end of the imposed war in 1989 and simultaneously with the launch of the First Development Plan and promotion of the national will to build the country.

In March 1992, senior executives at the Ministry of Petroleum established one of the four specialized holding companies affiliated with the Ministry of Petroleum, entitled “National Iranian Oil Refining and Distribution Company (NIRODC)”, emphasizing the need to beef up the downstream sector of the petroleum industry.

Owing to the significant scope of activities related to the construction of refineries, pipelines and oil depots in the field of production, transmission and distribution of fuel and increase in the number of engineering projects, the National Iranian Oil Engineering and Construction Company was established in 1993 with the responsibility of developing the downstream infrastructure of the petroleum industry in the fields of transportation, storage, refining and distribution of petroleum products to prepare the ground for a second big step in the design, construction and operation of Bandar Abbas oil refinery in 1997. The path of development, however, is an endless and tough one; due to the growing need of the country for energy and petroleum products, the implementation of various projects was put on the agenda of this company.





● Perspective of Activities

The perspective of the country's industrial development necessitates extensive activities and investments in the field of petroleum industry. In this way, a great opportunity has been created for the growth and prosperity of Iranian companies active in this field as per the law of «Maximum Utilization of Domestic Capacities».

The National Iranian Oil Engineering and Construction Company is striving to improve its scientific and technical capacity all the more in order to play a worthy role in the implementation of development projects in the petroleum industry by strengthening engineering centers, preparing databases, developing standards, clarifying procedures and taking advantage of the latest scientific and technical achievements.

In this respect, the activities carried out and the developments that have taken place from the past to the present- which is the result of the actions and efforts of assiduous and go-ahead managers, officials, experts and employees of the company are evidence of the great strides that have been made in development and efficiency.



● Approaches and Areas of Expertise

- Design and implementation of, and supervision over, refinery projects, oil depots, crude oil transmission pipelines and petroleum products, as well as oil piers in compliance with safety principles and modern scientific and engineering standards
- Feasibility studies and conceptual design of refinery projects, oil depots, oil piers, crude oil transmission pipelines and petroleum products
- Emphasis on the policy of «Support for Domestic Production» in accordance with the comprehensive development plan via interaction and cooperation with domestic manufacturers to produce new products or beef up the quality of existing goods based on current standards of the petroleum industry
- Development of localized processes and technical documentation for more interaction with local manufacturers and knowledge-based companies
- Maintenance of quality and ecological balance in the process of project implementation via adoption of appropriate methods and in accordance with existing capacities
- Support for research projects, especially applied projects, in interaction with universities and research centers
- Interaction with and support for knowledge-based companies to develop a knowledge- and innovation-based economy, support for entrepreneurship and commercialization of science
- Continuous analysis of knowledge and experience gained in project design and implementation in specialized project management committees
- Interaction with universities to support research, technology transfer, knowledge transfer, and collaborative research
- Cooperation in the generation of knowledge for product development and process optimization and localization, rapid profit returns, improved performance and rapid return on investment, increased competitiveness in domestic and foreign arenas, and readiness to be active in global markets, enhance self-reliance, create more confidence in investing as a result of cooperation with scientific institutions, etc.
- Promotion of HSE culture to create a healthy environment as well as physically and mentally safe conditions for employees
- Establishment of HSE management system to prevent accidents, reduce financial and human losses, preserve resources and the environment and increase work efficiency



● Sustainable Development and Environmental Protection

Industrial development is regarded as one of the multiple dimensions of development, the realization of which requires balanced development of social, economic, biological and industrial sectors. The National Iranian Oil Engineering and Construction Company has made a significant contribution to creation and maintenance of environmental conditions and provision of a safe and healthy community centered on green engineering by playing an effective role in the sustainable development agenda.

● Basic Principles of Green Engineering

- Design of processes, and construction of refineries and transmission pipelines for oil and petroleum products and ancillary facilities in accordance with environmental considerations and utilization of the latest and environmentally friendly technologies to achieve the goals of the green industry and prevent the creation and emission of pollutants
- Environmental impact assessment studies in projects subject to EIA studies prior to the start of project implementation activities
- Supervision over and inspection of the process of compliance with environmental considerations of plans and projects in accordance with the approvals of the Department of Environment
- Design and implementation of online monitoring systems in refinery projects in collaboration with the General Directorate for Environmental Protection in the provinces
- Cooperation in locating projects in the feasibility stage, and basic design of plans and projects with respect to environmental requirements
- Planning, directing and managing plans and projects based on reduction and minimization of waste and environmental pollutants
- Implementation of environmental management programs and environmental impact reduction programs during the implementation activities of plans and projects
- Environmental monitoring studies in active plans and projects in the laboratories approved by the Department of Environment.





Outstanding

▶ Outstanding Experiences



● Construction and Development of Refineries

● Construction of Tehran First Oil Refinery

- Construction process from 1965 to 1967
- Nominal capacity of 85,000 barrels per day, which reached 120,000 barrels with process reforms in 1976
- Construction cost of \$ 130 million

● Construction of Tehran Second Oil Refinery

- Construction from 1972 to 1973
- Nominal capacity of 100,000 barrels, which increased to a capacity of 110,000 barrels in 2003.
- Construction of atmospheric distillation, vacuum distillation, oil production in vacuum, visbreaking, liquefied petroleum gas, naphtha hydro-treating, kerosene and gas oil, hydrogen, isomerization, Isomax, and sulfur production units



● Construction of Arak Oil Refinery

- Construction process from 1989 to 1993
- Nominal capacity of 150,000 barrels
- Construction of atmospheric and vacuum distillation, continuous catalytic reforming, visbreaking, hydrogen production, hydrocracking, liquefied petroleum gas recovery, refinery gas treatment, bitumen production, sulfur recovery, sour water stripping, wastewater treatment, nitrogen generation, water production, electricity, steam and compressed air and feed tanks, and intermediate and final products units

● Construction of Bandar Abbas Oil Refinery

- Construction process from 1993 to 1999
- Nominal capacity of 232,000 barrels
- Including vacuum distillation (No. 1 & 2), atmospheric distillation, visbreaking, liquefied petroleum gas production, kerosene hydro-treating, heavy naphtha hydro-treating, continuous catalytic reforming, nitrogen generation, hydrocracking, blown bitumen production, sulfur production, amine gas treatment, sour water stripping, water production, electricity, steam and compressed air and feed tanks, and intermediate and final products units

● Implementation of the Project to Eliminate Restrictions on Increasing Capacity of Bandar Abbas Oil Refinery

- Implementation process from 2005 to 2008
- Increase in capacity from 232,000 to 320,000 barrels and removal of restrictions on distillation units of Bandar Abbas oil refinery
- Construction of pumps, pipelines transporting crude oil to distillation units, and transportation system of the products of this unit
- Completion and repair of communication roads outside the oil refinery and lowering the groundwater level



● Implementation of the Project to Renovate and Increase Capacity of Abadan Oil Refinery (First Phase)

- Construction process from 2003 to 2010
- Construction of a new refinery with a capacity of 180,000 barrels per day
- Maintenance of the refining capacity of 360,000 barrels per day by constructing new units and dismantling the old ones
- Maximum increase in gasoline production and improvement in the quality of middle distillates
- Production of products with modern technology based on Euro 5 standard and reduction in environmental pollutants
- Supply of feed for downstream industries (Bandar Imam Petrochemical Company, oil and asphalt manufacturing factory)
- Construction of new storage tanks and collection of 13 old worn-out tanks





● Implementation of the Project to Increase Capacity and Improve Quality of Imam Khomeini (RA) Shazand Refinery products

- Implementation and construction processes from 2008 to 2013
- Increase in the crude oil refining capacity of the complex from 160,000 to 250,000 barrels per day
- Improvement in the quality of refinery products to comply with the 2005 European standard and maximum increase in gasoline production
- Change in feed (crude oil) of the refinery to a mixture of Ahvaz Asmari and heavier crude oil

● Implementation of the Project to Optimize Process and Improve Quality of Tehran Oil Refinery Products

- Construction process from 2009 to 2011
- Change of crude oil from Central Asian and Ahvaz Asmari to Marun and North Dezful and Ahvaz Asmari crude oil
- Reduction in sulfur output of diesel and kerosene products in accordance with European standards (Euro 5)
- Increase in sulfur production as a by-product in the sulfur recovery unit with a recovery capacity of 110 tons per day



● Implementation of the Project to Increase Gasoline Production in Bandar Abbas Oil Refinery

- Implementation process from 2010 to 2016
- Increase in gasoline production in Bandar Abbas oil refinery by 4.8 million liters per day
- Improvement in the quality of products in accordance with the 2009 European standard
- Production of refined diesel oil at a rate of 7.9 million liters per day
- Production of 120 tons of sulfur due to an improvement in the quality of the products

● Construction of Isfahan Lube Oil Complex

- Construction process from 1989 to 1992
- Including refining units for extraction of cyclic unsaturated hydrocarbons with furfural solvent, dewaxing unit, oil stabilization unit, storage tanks, unit for blending additives with base oil, container making unit, equipment for oil loading in bulk and weighing, cooling tower and water softener, oil-contaminated water treatment unit

● Construction and Development of Pipelines and Ancillary Equipment

- Construction of more than 14,500 kilometers of pipelines for the transportation of crude oil and petroleum products
- Construction of more than 170 pumping stations
- Construction of more than 100 warehouses and storage facilities for crude oil and petroleum products

● Construction and Development of Oil Piers and Ports

- Implementation of Mahshahr export port reorganization project
- Implementation of Shahid Rajaei and Foolad piers development project in Bandar Abbas

● Retrofitting and Construction Projects

- Construction and equipment of Arak Di Clinic
- Carrying out studies on retrofitting of oil depots located farther from oil refineries
- Carrying out studies on retrofitting of residential houses and facilities located in Morvarid town of Bandar Abbas
- Carrying out studies on retrofitting of central buildings of the National Iranian Oil Refining and Distribution Company
- Carrying out studies on retrofitting of pumping stations all over the country
- Carrying out studies on retrofitting of the country's important refineries
- Carrying out studies on retrofitting of gas station stations



● Overseas Projects

- Construction of Turkmenbashi gasoline processing unit
- Partnership in the study of investment in refinery projects in Malaysia, Indonesia, and Syria, as well as carrying out technical and economic studies and basic design



▶ Ongoing Plans and Projects



Electric cranes



● Ongoing Plans and Projects of the National Iranian Oil Engineering and Construction Company

● Oil Refinery Projects

- Development and capacity maintenance projects of Abadan oil refinery
- Process improvement and optimization projects of Isfahan oil refinery (RHU Unit)

● Pipeline and Pumping Station Projects

- Construction project of Abadan / Mahshahr pumping stations and terminals
- Construction project of Naein / Kashan / Rey pipeline
- Construction project of Sabzab / Rey sour crude oil transmission pipeline
- Construction project of Bandar Abbas / Sirjan / Rafsanjan pipeline

Section 1: Construction project of Bandar Abbas / Mehraran petroleum products transmission pipeline

Section 2: Construction project of Mehraran / Rafsanjan pipeline with Sirjan pipeline branch

- Construction project of pumping stations and terminals of Bandar Abbas / Sirjan / Rafsanjan pipeline
- Construction project of high voltage power transmission line
- Project of an increase in the transfer capacity of Tabriz / Khoy / Urmia petroleum products and complementary projects



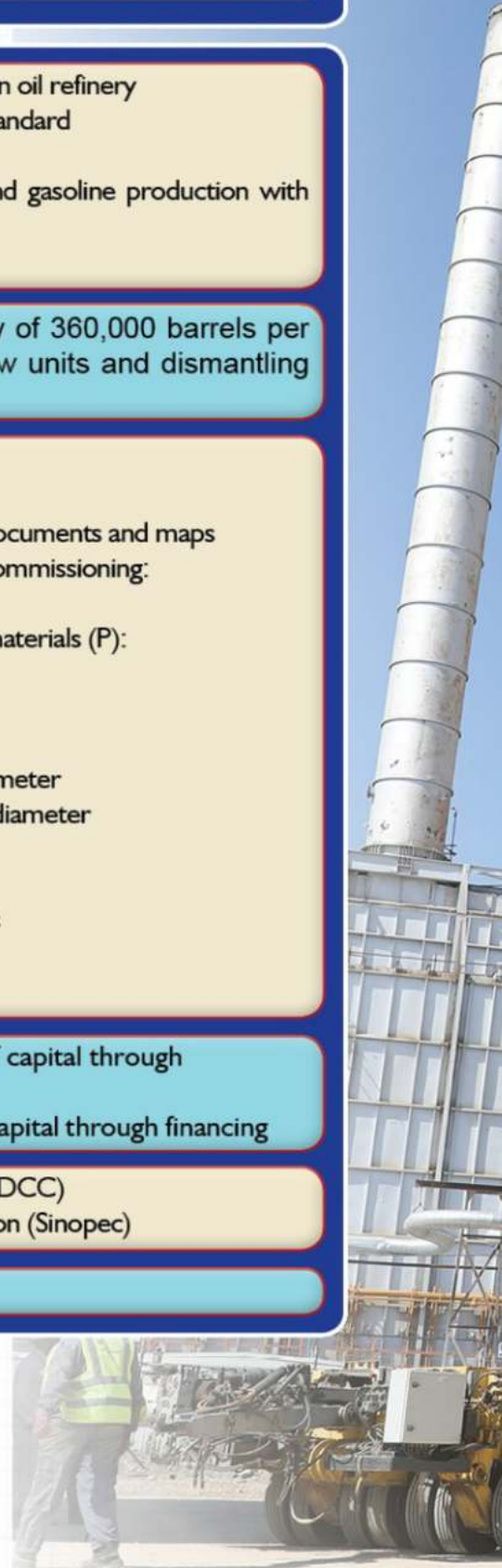
● Retrofitting Projects

- Study plan for retrofitting of pumping stations and pipelines throughout the country
- Study plan for retrofitting of oil depots located farther from oil refineries and filling stations
- Projects of Temporary Delivery
- Mahshahr export port reorganization project
- Construction project of Abadan / Shazand / Qom / Rey petroleum products pipeline
- Construction project of fuel pipeline to Chabahar power plant
- Construction of water pipeline from Bahmanshir river to Abadan oil refinery
- Construction project of the loading arms of Mahshahr export port
- Project of an increase in capacity and improvement in the quality of Imam Khomeini (RA) Shazand refinery products



● Ongoing Projects

Project Title	Development and Capacity Maintenance of Abadan Oil Refinery
Goals	<ul style="list-style-type: none"> ■ Maintenance the refining capacity of Abadan oil refinery ■ Production of products based on Euro 5 standard ■ Reduction in environmental pollutants ■ Increase in the percentage of diesel oil and gasoline production with improvements in production technology ■ Reduction in fuel oil production
Job Description	Maintenance of the refining capacity of 360,000 barrels per day (210 + 210) by constructing new units and dismantling the old units
Workload Details	<ul style="list-style-type: none"> ■ Engineering (E): Preparation of documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: ■ 10,787 documents ■ Purchase and procurement of goods and materials (P): ■ Procurement of 468 packages ■ Executive operations (C): ■ Piling: 15,000 pieces ■ Underground piping: 157,000 inches in diameter ■ Above-ground piping: 1,300,000 inches in diameter ■ Concreting: 160,000 cubic meters ■ Equipment installation: 30,000 tons ■ Installation of metal structures: 14,000 tons ■ Electrical cabling: 700,000 meters ■ Instrumentation cabling: 942,000 meters
Investment Amount	<ul style="list-style-type: none"> ■ In Local Currency: 28,169 billion Rials of capital through domestic sources ■ In Foreign Currency: 8.2 billion yuan of capital through financing
Contractor	Oil Design and Construction Company (ODCC) & China Petroleum & Chemical Corporation (Sinopec)
Contract Type	EPC+F







Project Title	Process Improvement and Optimization of Isfahan Oil Refinery Construction Project of Desulfurization Unit from Refinery Distillation Columns Residue, RHU Unit
Goals	Treatment of refinery distillation columns residue at 81,000 barrels per day
Job Description	Construction of a hydro-treating unit for the distillation columns residue, including two parts of catalytic reactors for the removal of impurities and sulfur, a part for the separation of main and by products and a part for preparation for catalyst replacement.
Workload Details	<ul style="list-style-type: none"> ■ Engineering (E): Preparation of documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: 10,787 documents ■ Purchase and procurement of goods and materials (P): Procurement of 176 packages ■ Executive operations (C): <ul style="list-style-type: none"> ■ Piling: 15,000 pieces ■ Underground piping: 157,000 inches in diameter ■ Above-ground piping: 1,300,000 inches in diameter ■ Concreting: 160,000 cubic meters ■ Equipment installation: 30,000 tons ■ Installation of metal structures: 14,000 tons ■ Electrical cabling: 700,000 meters ■ Instrumentation cabling: 942,000 meters
Investment Amount	€ 750 million (EPC)
Employer	Isfahan Oil Refining Company
Project Management	National Iranian Oil Engineering and Construction Company
Contractor	<ul style="list-style-type: none"> ■ EP Contractor: NARGAN Company ■ C Contractor: under the preparation of tender documents for the selection of the contractor
Contract Type	EPC

Project Title	Construction Project of Abadan New Pumping Stations and Terminals
Goals	Renovation, reorganization and updating of crude oil receiving facilities, transfer of fuel oil and receipt and transfer of Abadan refinery petroleum products
Job Description	<ul style="list-style-type: none"> ■ Construction of a 16-inch pumping station (Unit 201) for the transfer of products from Abadan to Ahvaz with a capacity of 140,000 barrels per day ■ Construction of a 12-inch pumping station (Unit 202) for the transfer of products from Abadan to Ahvaz with a capacity of 50,000 barrels per day ■ Construction of a 16-inch pumping station (Unit 203) for the transfer of products from Abadan to Mahshahr with a capacity of 106,500 barrels per day ■ Construction of a 16-inch pumping station (Unit 204) for the transfer of ORD from Abadan to Mahshahr with a capacity of 130,000 barrels per day ■ Construction of a 16-inch pumping station (Unit 204) for the transfer of ORD from Abadan to Mahshahr with a capacity of 130,000 barrels per day ■ Construction of a 26-inch pumping station (Unit 206) for the transfer of fuel oil from Abadan to Mahshahr with a capacity of 250,000 barrels per day ■ Construction of a 16-inch terminal (Unit 203) for the receipt of products from Mahshahr with a capacity of 106,500 barrels per day ■ Construction of a 16-inch terminal (Unit 210) for the receipt of crude oil from Darkhovin with a capacity of 110,000 barrels per day ■ Construction of a 24-inch terminal (Unit 208) for the receipt of crude oil from 40 miles of Mahshahr with a capacity of 210,000 barrels per day ■ Design, reorganization and implementation of communication pipelines of pumping stations and terminals inside Abadan oil refinery with a length of approximately 2 km
Workload Details	<ul style="list-style-type: none"> ■ Engineering (E): Preparation of documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: 2,298 documents ■ Purchase and procurement of goods and materials (P): Procurement of 92 packages ■ Executive operations (C): <ul style="list-style-type: none"> ■ Pile construction and piling: 48,464 meters ■ Road construction: 2,000 meters ■ Piping: 2,000 meters ■ Disposal of contaminated soils: 47,500 cubic meters ■ Backfilling and land leveling: 66,000 cubic meters
Investment Amount	<ul style="list-style-type: none"> ■ In Local Currency: 4,320 billion Rials ■ In Foreign Currency: € 21 million
Contractor	Sepehr consortium (Oil Design & Construction Co. and Pars Kayhan Co.)
Project Consultant	Middle East Energy Development Engineers Company (MED Co.)
Contract Type	EPC







Project Title	Construction Project of Sabzab / Rey Sour Crude Oil Transmission Pipeline
Goals	Transfer of sour crude oil from North Dezful oil fields at the rate of 450,000 barrels per day for refining to Kermanshah (Anahita), Arak and Tehran oil refineries with the construction of a 620 km long pipeline
Job Description	<ul style="list-style-type: none"> ■ Construction of a 102 km pipeline with a diameter of 30 inches with a transfer capacity of 450,000 barrels per day from Sabzab oil transfer center to Tang-e Fani oil transfer center (for transfer to Anahita oil refinery in Kermanshah) ■ Construction of a 239 km pipeline with a diameter of 26 inches with a transfer capacity of 295,000 barrels per day from Tang-e Fani oil transfer center to Shazand oil transfer center (for transfer to Arak oil refinery) ■ Construction of a 279 km pipeline with a diameter of 18 inches with a transfer capacity of 105,000 barrels from Shazand oil transfer center to Rey terminal oil transfer center (for transfer to Tehran oil refinery) ■ Construction of 6 intermediate oil transfer centers including Sabzab in Andimeshk, Tang-e Fani in Pol-e Dokhtar of Lorestan, Asar in Pol-e Dokhtar of Lorestan, Pol Baba in Khorramabad, Razan in Khorramabad and Shazand next to Arak oil refinery ■ Construction of pressure reducing station in Qom and Rey terminal facilities in Tehran oil refinery ■ Construction of power transmission lines and related electrical substations in Sabzab, Tang-e Fani, Asar and Razan oil transfer centers ■ Construction of two equalization tanks of 240,000 barrels in Sabzab
Workload Details	<ul style="list-style-type: none"> ■ Engineering (E): <ul style="list-style-type: none"> ■ Preparation of documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: 3,352 documents ■ Purchase and procurement of goods and materials (P): <ul style="list-style-type: none"> ■ Procurement of 152 packages ■ Executive operations (C): <ul style="list-style-type: none"> ■ Construction of a 620 km pipeline with 18, 26 and 30 inches in diameter with a transfer capacity of 450,000 barrels per day ■ Construction of 6 oil transfer centers, 1 pressure reducing station and 1 terminal ■ Construction of 63 kV power transmission lines for Tang-e Fani and Asar oil transfer centers with a length of 36 km, and 132 kV for Sabzab oil transfer center with a length of 7 km
Investment Amount	15,044 billion Rials
Contractor	Ghadir consortium (Nasr Misagh Ahvaz Co., Setiran Co., Nardis Co.)
Contract Type	EPC

Project Title	Construction Project of Naein / Kashan / Rey Pipeline
Goals	<ul style="list-style-type: none"> ■ Transportation of part of diesel oil, kerosene and gasoline produced in the Persian Gulf Star, Bandar Abbas and the future Hormoz refineries to Naein and Kashan and thence to Tehran and the northern regions of the country in a shorter route ■ Elimination of the daily traffic of 1,500 tankers and saving on the transportation costs and reduction in environmental pollutants and road accidents
Job Description	<ul style="list-style-type: none"> ■ Construction of about 420 km of 20-inch pipeline equipped with leak detection system between Naein, Kashan, and Rey ■ Construction of ten fixed and floating roof tanks with a total capacity of 300,000 cubic meters in Naein ■ Construction of new pumping station in Kashan and development of pumping station in Naein ■ Development and upgrading of the existing Naein 63 / 6.3 kV substation ■ Development of 63 kV power transmission line with a length of 6 km from Kashan to Kashan pumping station and development of 63 kV electrical substation in Kashan ■ Development of Rey terminal
Workload Details	<ul style="list-style-type: none"> ■ Engineering (E): <ul style="list-style-type: none"> ■ Preparation of all documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: 2,181 documents ■ Purchase and procurement of goods and materials (P): <ul style="list-style-type: none"> ■ Procurement of 74 packages ■ Executive operations (C): <ul style="list-style-type: none"> ■ Pipe-lay, welding, piping and hydrostatic testing operations: a total length of 420 km ■ Construction and installation of tanks: 8,800 tons ■ Construction of industrial buildings and structures: 5,330 square meters ■ Construction of office buildings: 2,867 square meters ■ Installation of rotating equipment: 30 devices
Investment Amount	<p>In Local Currency: 5,040 billion Rials In Foreign Currency: € 84.5 million</p>
Contractor	<ul style="list-style-type: none"> ■ NASR consortium (Danial Petro Co., Nasr Misagh Ahvaz Co., Iran Development of Industrial Services Co., & Bina Consulting Engineers)
Contract Type	EPC





Project Title

Construction Project of Bandar Abbas / Mehraran Petroleum Products Transmission Pipeline Section 1 of Construction Project of Bandar Abbas / Sirjan / Rafsanjan Pipeline

Goals

Renovation, reorganization and updating of crude oil receiving facilities, transfer of fuel oil and receipt and transfer of Abadan refinery petroleum products

Job Description

- Construction of a 26-inch pipeline with a capacity of 300,000 barrels per day to transport petroleum products from the Persian Gulf Star refinery to Mehraran Oil Transfer Center
- Detailed design and engineering, compilation of manuals for commissioning, operation, maintenance and engineering
- Supply and procurement of goods and materials
- Executive operations of pipeline construction, construction operations and installation of all devices and equipment until the completion of the project, pre-commissioning, commissioning and elimination of one-year defects

Workload Details

- Engineering (E):
 - Preparation of documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: 303 documents
- Purchase and procurement of goods and materials (P):
 - Procurement of 55 types of goods
- Executive operations (C):
 - Construction of a pipeline with a length of about 249 km (6 km from the Persian Gulf Star refinery to Bandar Abbas oil transfer center, 132 km from Bandar Abbas oil transfer center to Qotbabad oil transfer center and 111 km from Qutbabad oil transfer center to Mehraran oil transfer center)
 - Construction of a 260 km long fiber optic cable for intelligent leak detection systems and data transmission in a separate channel and parallel to the main pipeline channel
 - Design and construction of a complete temporary and permanent cathodic protection system with a length of 231 km, including the construction of all cathodic protection stations along the pipeline
 - Earthworks: about 5.5 million cubic meters
 - Supply of pipes: 21,000 pipes weighing approximately 57,000 tons
 - Welding: 23,000 pipe heads with a diameter of 26 inches
 - Drilling: 250 boreholes to a depth of 3 meters
 - Two-way valve: 22 pieces
 - 249 km long road construction, including 39 km of new road construction

Investment Amount

- In Local Currency: 2,044 billion Rials
- In Foreign Currency: € 2.66 million

Contractor

Consortium of Khatam al-Anbiya Construction Headquarters and Tadbir Energy Development Group

Project Consultant

Pars Consulting Engineers

Contract Type

EPC

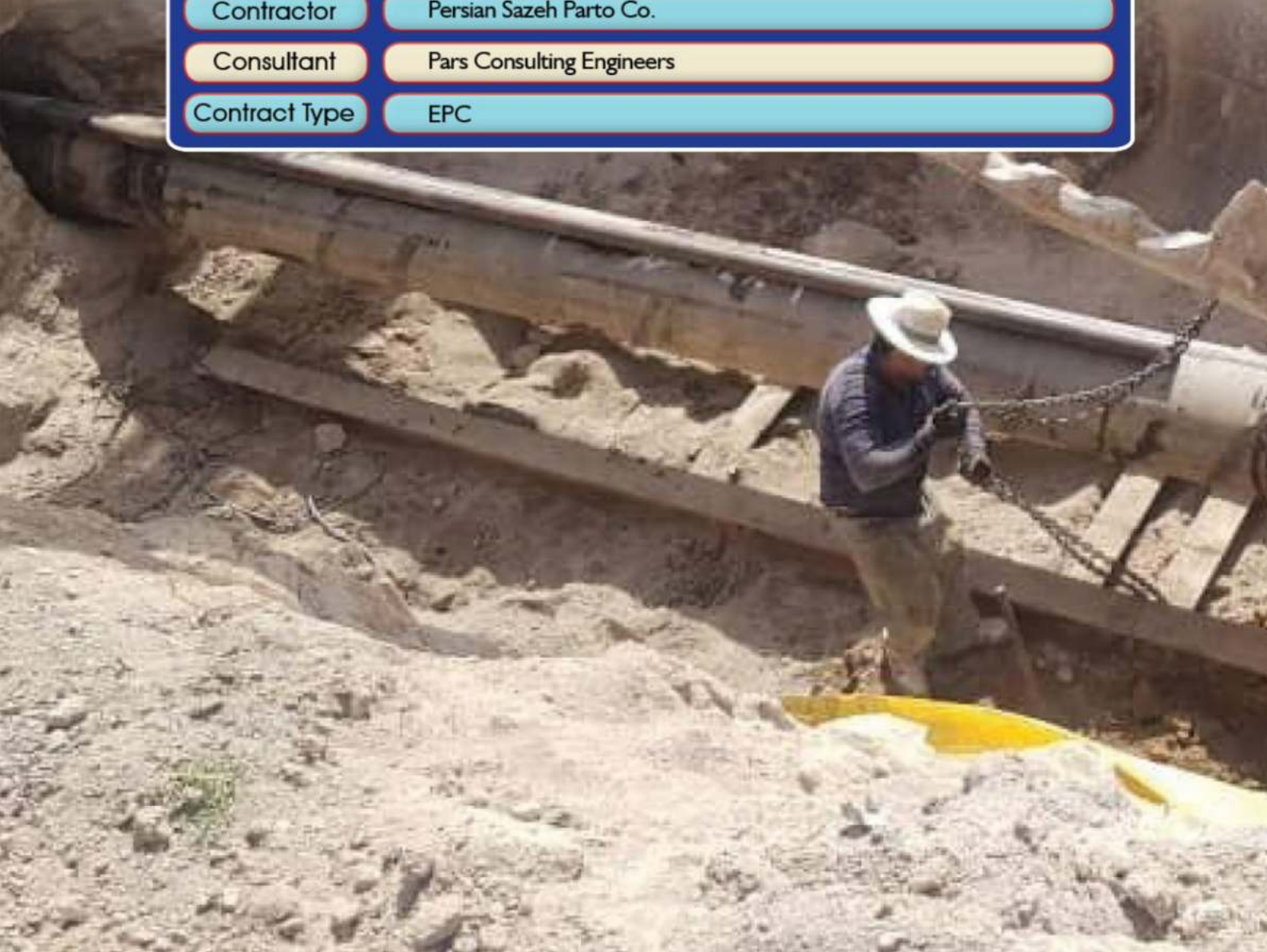


Project Title	Construction Project of Mehraran / Rafsanjan Pipeline with Sirjan Pipeline Branch Section 2 of Construction Project of Bandar Abbas / Sirjan / Rafsanjan Pipeline
Goals	Transfer of 300,000 barrels per day of petroleum products, including gasoline, kerosene and diesel oil from the products of the Persian Gulf Star refinery to the central regions of the country
Job Description	<ul style="list-style-type: none"> ■ Construction of a 26-inch pipeline with a capacity of 300,000 barrels per day for the transfer of petroleum products from Mehraran oil transfer center to Rafsanjan terminal ■ Construction of an 8-inch pipeline with a capacity of 35,000 barrels per day as the 'Sirjan branch' to feed the existing oil storage in Sirjan ■ Detailed design and engineering, compilation of manuals for engineering, commissioning, operation and maintenance ■ Supply and procurement of goods and materials required for the project ■ Executive operations of pipeline construction, construction operations, installation and commissioning of two-way valves and other equipment until the completion of the project, pre-commissioning, commissioning and elimination of one-year defects
Workload Details	<ul style="list-style-type: none"> ■ Engineering (E): <ul style="list-style-type: none"> ■ Preparation of documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: 315 documents ■ Purchase and procurement of goods and materials (P): <ul style="list-style-type: none"> ■ 64 items ■ Executive operations (C): <ul style="list-style-type: none"> ■ Construction of 20 kV power transmission line with a length of 35 km to cathodic protection stations ■ Construction of 26-inch diameter pipeline with a length of about 219 km from Mehraran oil transfer center to Rafsanjan terminal ■ Construction of 8-inch diameter pipeline with a length of about 24 km branching from the main pipeline to feed the oil storage in Sirjan ■ New road construction (ROW) with a length of about 70 km ■ Construction of 17 two-way valve stations ■ Construction of a fiber optic cable with a length of about 220 km for leak detection and data transmission systems ■ Construction of 18 main intersections with roads and seasonal rivers ■ Earthworks: 2 million cubic meters ■ Supply of 220,000 meters of API5LX60 pipe with an approximate weight of 37,000 tons with fusion bonded epoxy (FBE) coating for the project
Investment Amount	<ul style="list-style-type: none"> ■ In Local Currency: 1,640 billion Rials ■ In Foreign Currency: € 45 million
Contractor	Consortium of Kerman Jihad-e-Nasr Co. & Sisakht
Consultant	Pars Consulting Engineers
Contract Type	EPC

Project Title	Construction Project of Pumping Stations and Terminals of Bandar Abbas / Sirjan / Rafsanjan Pipeline
Goals	Construction of the terminal and pumping stations of Bandar Abbas / Sirjan / Rafsanjan new 26-inch pipeline for the transfer of gasoline, kerosene and diesel oil from the Persian Gulf Star refinery to the central regions of the country
Job Description	<ul style="list-style-type: none"> ■ Construction of a new pumping station in Bandar Abbas for the 26-inch pipeline with a capacity of 300,000 barrels per day ■ Construction of a new pumping station in Qotbabad for the 26-inch pipeline with a capacity of 300,000 barrels per day ■ Construction of a new pumping station in Mehraran for the 26-inch pipeline with a capacity of 300,000 barrels per day ■ Construction of a new terminal in Rafsanjan for the 26-inch pipeline with a capacity of 300,000 barrels per day ■ Construction of a new terminal in Sirjan for the 8-inch pipeline with a capacity of 35,000 barrels per day
Workload Details	<ul style="list-style-type: none"> ■ Engineering (E): <ul style="list-style-type: none"> ■ Preparation of documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: 1,900 documents ■ Purchase and procurement of goods and materials (P): <ul style="list-style-type: none"> ■ 61 items ■ Executive operations (C): <ul style="list-style-type: none"> ■ Supply and installation of 18 electric pumps and 3 diesel devices each with an electric power of about 4 MW ■ Supply and installation of variable-frequency drive (VFD) systems for an increase in energy efficiency ■ Design and installation of leak detection system (LDS) for 459 km of the 26-inch pipeline
Investment Amount	<p>In Local Currency: 1,520 billion Rials</p> <p>In Foreign Currency: € 45.6 million</p>
Contractor	Consortium of RAMPCO Group & Energy Industries Engineering & Design (EIED)
Consultant	Pars Consulting Engineers
Contract Type	EPC



Project Title	Construction Project of High Voltage Power Transmission Line Power Supply Project of Bandar Abbas / Sirjan / Rafsanjan 26-Inch Pipeline
Goals	Construction of 132 kV double circuit transmission lines of Mehraran / Haji Abad and Qotbabad / Haji Abad, development of 63/6.3 kV electrical substation of Bandar Abbas pumping station and construction of 132/6,3 kV electrical substations of Qotbabad and Mehraran
Job Description	<ul style="list-style-type: none"> ■ Construction of a total of 100 km of 132 kV transmission line, including 48 km of Qotbabad / Hajiabad transmission line and 52 km of Mehraran / Hajiabad transmission line ■ Construction of two 6.3 to 132 kV substations of Qotbabad and ■ Mehraran oil transfer centers and development of 63/6.3 kV Bandar Abbas oil transfer center
Investment Amount	1,900 billion Rials
Contractor	Persian Sazeh Parto Co.
Consultant	Pars Consulting Engineers
Contract Type	EPC



Project Title	Increase in Transfer Capacity of Tabriz / Khoy / Urmia Petroleum Products and Complementary Projects
Goals	Transfer of 65,000 barrels of products in Tabriz / Khoy / Urmia route and equipment of the pipeline with an intelligent leak detection system and environmental pollution prevention, and increasing the useful life of the pipeline
Job Description	Completion of Tabriz / Khoy / Urmia facilities and pipeline
Workload Details	<ul style="list-style-type: none"> ■ Supply and installation of three 1-megawatt electric pumps in Tabriz facilities ■ Supply and construction of 260 km of fiber optic cable along the Tabriz / Khoy / Urmia pipeline ■ Construction of 24 km of 10-inch pipeline in Khoy branch ■ Construction of Khoy electrical terminal near the existing oil depot ■ Construction of 8-inch electrical terminal of previous Miandoab / Urmia pipeline ■ Construction of 36 km of service road along the pipeline in the form of sandy soil mixture and paving ■ Construction of two radio station units along Tabriz / Urmia pipeline ■ Construction of intermediate facilities along the 10-inch Khoy branch pipeline
Investment Amount	2,100 billion Rials
Contractor	Consortium of Kiamaki Jolfa & Parsikan Iran Engineering and Management Consultants
Contract Type	EPC



Project Title	Overhaul plan for El palito refinery in Venezuela
Goals	<ul style="list-style-type: none"> ■ Increasing the capacity of the El Palito refinery in Venezuela to 140,000 barrels per day ■ Enabling the refinery to refine Iran's heavy crude oil and produce standard products
Job Description	<p>Supplying parts and equipment needed for major repairs and revitalizing the capacity of the refinery, as well as supplying spare parts for two years of support for the following operational units :</p> <ul style="list-style-type: none"> ■ CDU/VDU/Solvent ■ HDT/PTR ■ FCC/Merox ■ Utility ■ Tankage
Workload Deatails	Increase the capacity of the El Palito refinery to 140,000 barrels per day
Investment Amount	110 million Euros
Contractor	National Iranian Petroleum Construction Engineering Company
Contract Type	LUMP SUM

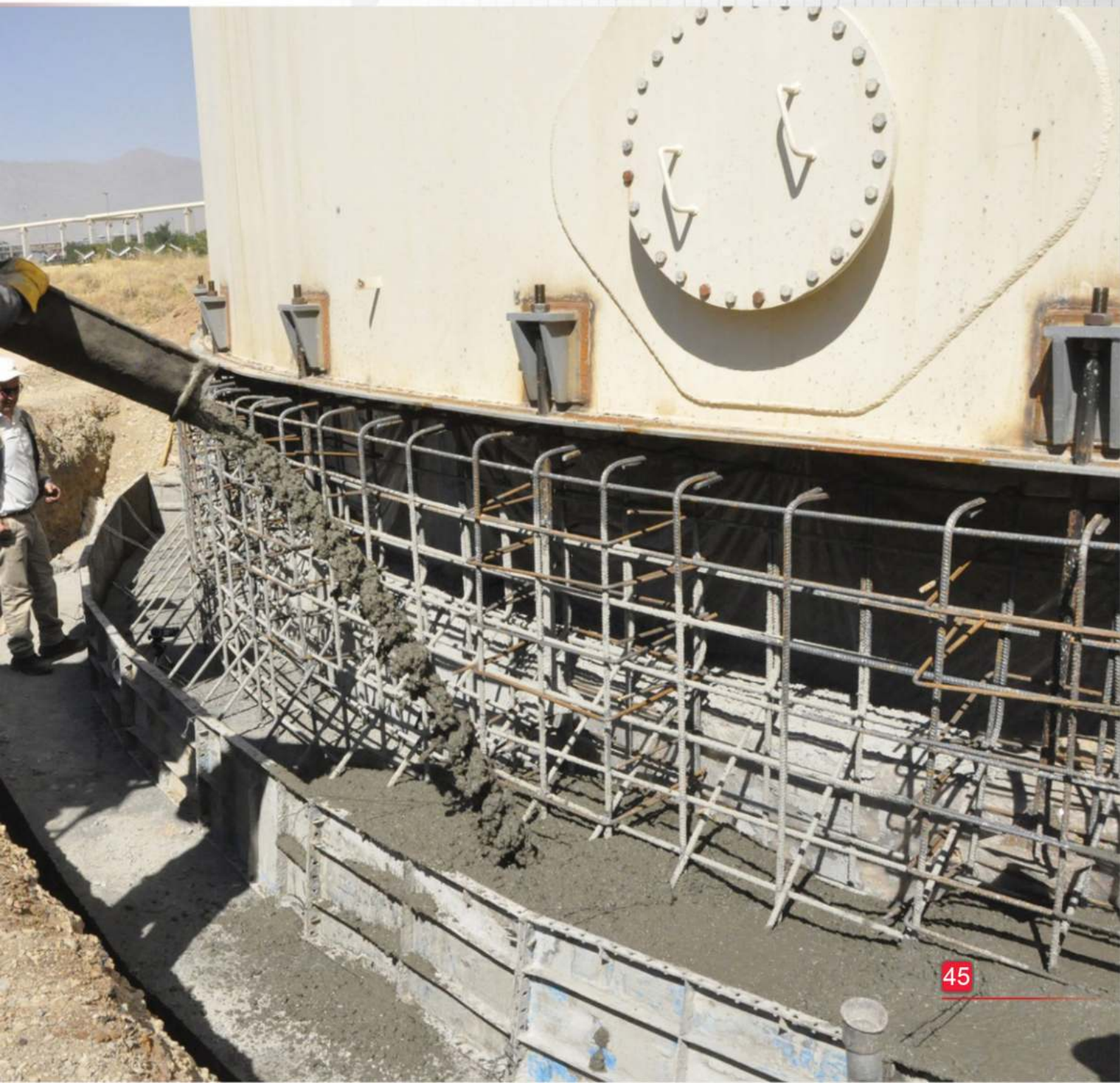


Retrofitting Projects

▶ Retrofitting Projects



Project



● Management of Construction and Retrofitting Projects

The main task of this management unit is to carry out all construction and retrofitting plans and projects defined in the National Iranian Oil Refining and Distribution Company and its subsidiaries. Defined on the basis of organizational and personnel needs at the level of National Iranian Oil Refining and Distribution Company and its subsidiaries, construction and retrofitting projects are notified to this unit subsequent to providing funds and gaining approval for studies and implementation.

These projects are defined and planned with the aim of maintaining the infrastructure of the petroleum industry and protecting manpower, as well as improving the structural condition and increasing the resilience of oil buildings and facilities in order to improve their serviceability and increase their useful life, the results of which would be a reduction and minimization of the risks of erosion, environmental factors and natural disasters, especially earthquakes. It increases, as a consequence, the importance and necessity of undertaking these projects and providing the required funding for them in the shortest possible time and in the best possible way.



● Key Experiences of Management of Construction and Retrofitting Projects

a) Construction Projects, including:

- Construction of 250 new housing units in Bandar Abbas
- Construction of Arak and Isfahan Di Clinics
- Construction of a 64-bedded hospital in Morvarid town of Bandar Abbas
- Construction of Warsaw (First Central) Building of the National Iranian Oil Refining and Distribution Company
- Construction of a 64-bed hospital in Abadan
- Studies on and design of the Faculty of Chemical and Petroleum Engineering at Hormozgan University



b) Retrofitting Projects, including:

- Vulnerability studies and retrofitting of the country's refineries
- Vulnerability studies and retrofitting of oil pipelines and pumping stations across the country
- Vulnerability studies and retrofitting of oil depots across the country
- Vulnerability studies and retrofitting of NIORDC headquarters buildings
- Studies on and implementation of the retrofitting of gas station stations across the country
- Vulnerability studies and retrofitting of the country's aircraft refueling stations



● Main Current Projects of Management of Construction and Retrofitting Projects:

- Initial vulnerability studies and assessment of the retrofitting of the National Iranian Oil Products Distribution Company (NIOPDC) headquarters building - Sari
- Vulnerability studies and retrofitting of NIOPDC building - Lorestan, Dorud
- Investigation of and supervision over retrofit studies of northeastern oil storage reservoirs – Quchak
- Feasibility studies and follow-up for vulnerability studies and retrofitting of the National Iranian Oil Products Distribution Company - Ilam
- Investigation of land subsidence in NIOPDC aircraft refueling station in Hamadan, and feasibility study for vulnerability and retrofit studies
- Follow-up for carrying out supplementary studies of retrofitting and reconstruction of NIOPDC headquarters building - Sari
- Follow-up and preparations for retrofitting of 12 oil depots located farther from oil refineries and 16 aircraft refueling stations across the country



New Projects

▶ New Projects



cts



Project Title	Construction Project of Rafsanjan / Yazd pipeline and Development Project of Rafsanjan and Yazd Transfer Centers
Goals	Increase in capacity, renovation and removal of restrictions on fueling operations due to the wear of the 16-inch pipeline on Rafsanjan / Yazd route which will increase the overall capacity of petroleum products transmission lines from Bandar Abbas to other consumption centers.
Job Description	<ul style="list-style-type: none"> ■ Construction of a 16-inch pipeline with a length of 228 km ■ Development and construction of pumping stations required for Rafsanjan and Yazd transfer centers ■ Procurement and installation of intelligent leak detection system (LDS) for the new 16-inch pipeline on Rafsanjan / Yazd / Naein route
Investment Amount	-----
Contractor	-----
Consultant	Middle East Energy Development Engineers Company (MED Co.)
Contract Type	EPC



Project Title	Construction Project of Bandar Abbas Gas Condensate and Crude Oil Branch Pipeline and Related Facilities
Goals	Sustainable supply of crude oil feed to Bandar Abbas oil refinery through Goreh-Jask Pipeline
Job Description	Construction of a 30-inch pipeline branch and the required facilities from the gas condensate station of the Persian Gulf Star refinery with a length of about 37 km and a capacity of 300,000 barrels per day for temporary transfer of gas condensate to the station at the intersection with Goreh / Jask oil pipeline until the operation of Goreh / Jask pipeline, and in the next stage, the transfer of crude oil from Goreh / Jask pipeline to the station next to Bandar Abbas Oil Refining Company and supply of feed to the aforementioned company
Workload Details	<ul style="list-style-type: none"> ■ Engineering (E): <ul style="list-style-type: none"> ■ Preparation of documents and technical specifications, procurement engineering, documents and maps required for full implementation and commissioning of the project and development of a three-dimensional model using PDMS software for the project in all disciplines ■ Purchase and procurement of goods and materials (P): <ul style="list-style-type: none"> ■ Supply and procurement of goods and materials required for full implementation and commissioning of the project ■ Executive operations (C): <ul style="list-style-type: none"> ■ Executive and construction operations and installation of all devices and equipment until the completion of the project, pre-commissioning, commissioning, compilation of manuals for commissioning, operation, maintenance and elimination of one-year defects ■ Total volume of excavation: 1,166,000 cubic meters ■ Total volume of backfilling: 135,650 cubic meters ■ Pipeline: about 37 km
Investment Amount	In Foreign Currency: € 32 million
Contractor	Maroun Mechanic Company
Contract Type	EPC

Project Title	Construction Project of 5,000 Ton Pier in Qeshm Island
Goals	Sustainable supply of crude oil feed to Bandar Abbas oil refinery through Goreh-Jask Pipeline
Job Description	<ul style="list-style-type: none"> ■ Renovation and elimination of risks due to the wear of the existing pier ■ Rockfill on the seabed and rock placement around the existing pier ■ Increase in the berth capacity of ships up to 5000 tons ■ Construction of access road at sea and along the access road to the existing pier with driven steel pile and concrete deck structural system ■ Construction of the shed of fire water pumping house and fire building and control room and around the concrete tank of fire water ■ Change in the fire extinguishing system from non-automatic mode to automatic system with water and foam
Workload Details	<ul style="list-style-type: none"> ■ Construction of 150 meters of access road with a width of 5 meters in the sea ■ Construction of an operating platform and two berthing dolphins and four mooring dolphins using 73 driven steel piles Rockfill and rock placement operations: about 23,000 cubic meters ■ Construction of the shed of fire water pumping house and fire building and control room ■ Installation of three 6-inch loading arms, three diesel fire pumps ■ Construction of two firefighting water storage tanks, each with a capacity of 3,500 cubic meters ■ Carbon steel and polyethylene piping ■ Other equipment required for mechanics, electricity, instrumentation, cathodic protection and safety
Investment Amount	-----
Contractor	-----
Contract Type	EPC



Project Title	Construction Project of 300,000-barrel Shahid Soleimani Oil Refinery
Goals	Construction of a petro-refinery with a capacity of 300,000 barrels per day to refine heavy export crude oil and produce refinery items such as gasoline, diesel, jet fuel and petrochemical products such as benzene, toluene, polypropylene, xylene, HDPE, LLDPE.
Job Description	Construction of a petro-refinery with a capacity of 300,000 barrels per day in order to refine heavy export crude oil and produce refinery items with the following process model: VCC + FCC + BTX + STC In this model, downstream vacuum distillation towers of process units (VEBA COMBI CRACKER) VCC, which is a process unit with the ability to convert vacuum distillation tower residues to items such as naphtha, diesel, etc. and is used in the catalytic fracture unit. The upstream sector has used aromatization units (BTX) and STEAM CRACKER (BTX) to produce high value-added petrochemical products.
Workload Details	<ul style="list-style-type: none"> ■ Civil ■ Electrical items, equipment and volumes ■ Safety and firefighting ■ Instruments and telecommunications ■ Manpower machines ■ Catalyst ■ Welding items and insulation cover of cathodic protection
Investment Amount	Fixed capital: \$12,823 million Annual operating costs: \$ 641 million
Contractor	-----
Contract Type	EPCF







Project Title

Tehran Bypass Pipeline Project
(Passive Defense Project)

Goals

Safe and continuous supply of petroleum products required in the northwestern and northeastern regions of the country as well as sustainable transportation of petroleum products to Tehran and its suburbs

Job Description

- Construction of 20-inch X60 grade crude oil pipeline between Cheshmehshour to Eshtehard oil transfer center with a transfer capacity of 165,000 barrels per day in the form of burial with FBE coating and construction of Cheshmehshour station
- Construction of 24-inch X60 grade product pipeline between Cheshmehshour station to Eyvanki oil transfer center with a transfer capacity of 300,000 barrels per day in the form of burial with FBE coating and construction of Eyvanki station
- Construction of 26-inch X60 grade product pipeline between Cheshmehshour station to Palangabad station with a transfer capacity of 320,000 barrels per day in the form of burial with FBE coating and construction of Palangabad station
- Construction of equipment related to branches, intelligent leak detection system and control and monitoring system for all routes Cheshmehshour / Eshtehard, Cheshmehshour / Eyvanki and Cheshmehshour / Palangabad
- Construction of all relevant two-way valve stations and cathodic protection rooms
- Construction of two strands of fiber optic cable for Cheshmehshour / Eshtehard, Cheshmehshour / Palangabad and Cheshmehshour / Eyvanki routes with all connections and relevant intermediate stations
- Preparation of maps and land acquisition documents

Workload Details

Activities in the field of engineering services, supply of materials and equipment, construction operations, installation, commissioning and operation based on documents and approved plans and current standards and instructions approved by the Ministry of Petroleum in accordance with the job description

Investment Amount

€ 300 million

Contractor

Project Title	Construction of Rafsanjan/Birjand/Mashhad Products Transfer Pipeline (Tabesh Pipeline)
Goals	The construction project of 22 and 18-inch pipelines in Rafsanjan, Birjand, Mashhad (Tabesh Pipeline) with a length of 950 km, which is being built in order to provide sustainable energy and fuel needed in the eastern and northeastern regions of the country and also reduce the cost of transporting petroleum products to the mentioned areas with a capacity of 130 to 156,000 barrels per day (diesel and gasoline), is on the agenda.
Job Description	<p>This project includes five projects as follows:</p> <ul style="list-style-type: none"> ■ 1- Area 1: Construction of a pipeline with a length of 250 km (Rafsanjan - Cheshmeh Sefid); ■ 2- Area 2: Construction of a 250-km pipeline (Cheshmeh Sefid - Birjand) and Cheshmeh Sefid pigging station; ■ 3- Area 3: Construction of a 300-km pipeline (Birjand - Torbat Heydariyeh); ■ 4- Area 4: Construction of a 150-km pipeline (Torbat Heydariyeh - Mashhad) and construction of Torbat Heydariyeh, Imam Taghi and Mashhad terminal facilities; ■ 5- Construction of pump houses in Rafsanjan and Birjand
Workload Details	<p>Implementation of this project includes:</p> <ul style="list-style-type: none"> ■ 1- Construction of a 22-inch pipeline between Rafsanjan Pump House and Imam Taghi Pumping Facility with an approximate length of 900 km and an 18-inch 5 L-X60 pipeline from Imam Taghi Facility to Mashhad Terminal with an approximate length of 50 km with FBE coverage. This line will be equipped with intermediate facilities such as valves, cathodic protection system and an intelligent leak detection system. ■ 2- Construction of a new 22-inch line pump house will be required at the site of the existing pump house in Rafsanjan with a nameplate capacity of 130,000 barrels of gasoil per day, including installation of main pumps, booster pumps, filters, pigging transmitter, anti-corrosion injection system as well as other systems and ancillary facilities along with the required buildings and structures; ■ 3- Construction of facilities for receiving and sending Cheshmeh Shoor Pigging equipment at kilometer 245 of a 22-inch line; ■ 4- Construction of the new 22-inch Birjand pump house at Kilometer 500 of the pipeline with an installed capacity of 130,000 barrels of diesel per day, which includes installation of main pumps, booster pumps, filters, balance tanks, pigging equipment, anti-corrosion injection system and implementation of other systems and ancillary facilities along with buildings and structures. ■ 5- Construction of an offshoot station in the existing facilities of Torbat-e Heydariyeh terminal at Kilometer 800 of a 22-inch pipeline which includes equipment for sending and receiving filter pigs, metering system and other ancillary and building requirements. ■ 6- Construction of an offshoot station in the existing facilities of Imam Taghi at Kilometer 950 of the 22-inch pipeline which includes equipment for sending and receiving filter pigs and other ancillary necessities and buildings. ■ 7- Construction of an 18-inch pipeline end facilities in the existing terminal facilities in Mashhad which include equipment for sending and receiving filter pigs, metering systems and other ancillary and building requirements. ■ 8- Supply of electricity to pump houses, including: construction of a two-circuit transmission line and 132/6.3 KV new Birjand pump house, development of existing pump and substation electrical facilities in Rafsanjan and supply of electricity to other terminals of Torbat Heydariyeh, Imam Taghi and Mashhad through equipment installation and development of existing facilities and buildings.
Investment Amount	The initial estimate of the project is a total of €372 million
Contractor	Not determined yet
Contract Type	EPC





Project Title	Construction project of Mehraran/Fasa/Shiraz Petroleum Products Transmission Pipeline (Pars Pipeline)
Goals	<ul style="list-style-type: none"> ■ Sustainable supply of fuel in Fars province ■ Reduce road transport costs ■ Increase energy security by constructing and developing the province's oil depots
Job Description	<ul style="list-style-type: none"> ■ Construction of a 14-inch pipeline with an approximate length of 400 km and relevant stations ■ Construction of a new oil depot in Fasa ■ Development of Shahid Tongdovian oil depot in Shiraz
Workload Details	
Investment Amount	106 million euros
Contractor	Not determined yet
Contract Type	



Project Title

SHAHID MAHDAVI TANK FARM PROJECT

Goals

INCREASING THE AMOUNT OF STORAGE REFINED PRODUCTS IN PRODUCTION BASES

Job Description

The Tank farm includes 18 fixed and floating roof storage tanks which contain 600 million liters of Gasoline and Gasoil in addition to their transfer pumps and related facilities

Workload Details

The Tank farm includes 10 floating roof storage tanks which contain 360 million liters of Gasoline and 8 fixed roof storage tanks which contain 240 million liters of Gasoil in addition to their transfer pumps, inlet and outlet pipeline ,firefighting sys. ,control sys. ,electrical and instrument equipment and the other related facilities and buildings

Investment Amount

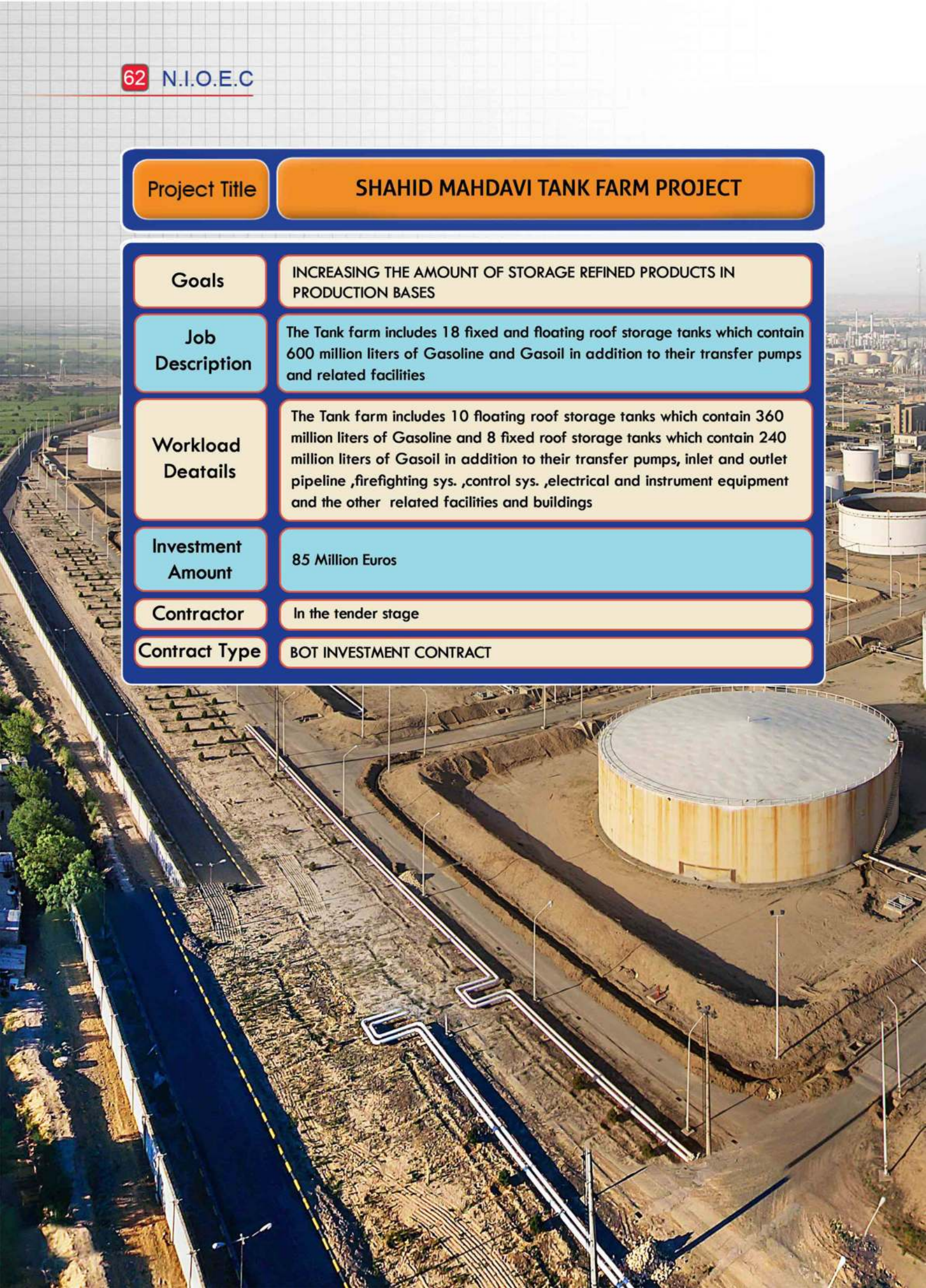
85 Million Euros

Contractor

In the tender stage

Contract Type

BOT INVESTMENT CONTRACT





Projects of Temporary Delivery



Tempo

ery
Delivery



Project Title	Construction Project of Fuel Pipeline to Chabahar Power Plant
Goals	Continuation of safe fuel supply to Chabahar power plant and prevention of daily traffic of more than 100 oil tankers in the city and suburban area and reduction of possible road accidents
Job Description	<ul style="list-style-type: none">■ Construction of a pumping station including three electric pumps, a diesel pump, a corrosion inhibitor system, a measuring system■ Construction of 21.5 km of 14-inch pipeline and construction of terminal facilities in Chabahar power plant
Investment Amount	433 billion Rials
Contractor	Shiraz Sadid Co.
Contract Type	EPC



Project Title	Construction Project of Abadan / Shazand / Qom / Rey Petroleum Products Pipeline
Goals	<ul style="list-style-type: none"> ■ Increase in transfer capacity of petroleum products from Abadan to Nezamiyeh in Ahvaz up to 250,000 barrels per day ■ Increase in transfer capacity of petroleum products from Shazand to Rey up to 300,000 barrels per day
Job Description	Construction of a 26-inch pipeline from Abadan oil refinery to Nezamiyeh of Ahvaz, and from Shazand of Arak to Tehran with a length of 428 km
Workload Details	<p>Construction of a pipeline from Abadan to Nezamiyeh of Ahvaz with a capacity of 250,000 barrels per day</p> <p>Construction of a pipeline from Shazand to Rey with a capacity of 300,000 barrels per day</p> <p>Construction of the equipment required in Shazand, Qom and Rey stations for operation</p>
Investment Amount	3,800 billion Rials
Consultant	Tarh-e-now Andishan Consulting Engineering Co.
Contractor	Khatam al-Anbiya Construction Headquarters - Energy Development Specialized Group
Contract Type	EPC

Project Title	Reorganization Project of Mahshahr Export Port
Goals	<ul style="list-style-type: none"> ■ Reconstruction of 6 piers and dredging for mooring ships of 30,000 to 80,000 tons ■ Increase in loading and unloading capacity of petroleum products from 50,000 tons to 90,000 tons ■ Construction of 17 new storage tanks and renovation of 28 existing storage tanks and increase of storage volume by 3 million and 500 thousand barrels ■ Adding equipment for exporting fuel oil, kerosene, diesel oil, gasoline, etc. (totally from 50,000 tons to 90,000 tons) ■ Equipment of new piers with advanced control systems ■ Adding equipment for importing gasoline, MTBE and diesel oil ■ Adding equipment to export various types of ship fuels ■ Updating the existing facilities
Job Description	Construction of tanks and reconstruction of piers and renovation of worn-out equipment of Mahshahr export port in order to increase productivity and meet the growing need for export and import of petroleum products from Mahshahr export port
Workload Details	<p>Onshore Sector:</p> <ul style="list-style-type: none"> ■ Engineering (E): <ul style="list-style-type: none"> ■ Preparation of documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: 4,082 documents ■ Purchase and procurement of goods and materials (P): <ul style="list-style-type: none"> ■ 80 items ■ Executive operations (C): <ul style="list-style-type: none"> ■ Excavation operations: 2,400,000 cubic meters ■ Steel reinforcement: 2,000 tons ■ Formwork: 95,000 square meters ■ Concreting: 23,000 cubic meters ■ Piping: 103,000 meters ■ Welding: 370,000 inches in diameter ■ Construction of 17 new storage tanks with a total capacity of 557 million liters ■ Construction of surface water conduction channels with a length of 12,000 meters ■ Construction of industrial and non-industrial buildings: 6,500 square meters ■ Road construction: 17 km ■ Electrical cabling: 694 km ■ Construction of 132 and 33 kV double circuit transmission lines with a length of 17 km ■ Construction of 132 to 133 kV main electrical substation and development of 132 kV Dobi in 400 kV substation of Mahshahr and the export port <p>Offshore Sector:</p> <ul style="list-style-type: none"> ■ Engineering (E): <ul style="list-style-type: none"> ■ Preparation of documents and technical specifications, procurement engineering, documents and maps required for project implementation and commissioning: 2,180 documents ■ Purchase and procurement of goods and materials (P): <ul style="list-style-type: none"> ■ 33 items ■ Executive operations (C): <ul style="list-style-type: none"> ■ Demolition and construction of 6 new piers ■ In-situ concrete: 18,000 cubic meters ■ Centrifuge piling: 22,000 meters ■ Metal piling: 3,000 meters ■ Piping: 53,500 meters ■ Dredging: 2 million cubic meters
Investment Amount	9,000 billion Rials
Contractor	Offshore Sector: Khatam al-Anbiya Construction Headquarters, Omran Sahel Co. Onshore Sector: Mashin Sazi Arak Co.
Contract Type	EPC





Project Title	Installation and Commissioning of Metering System in Two New Piers 5 and 6 of Mahshahr Export Port
Goals	Installation and implementation of fuel oil meters in piers 5 and 6
Job Description	Operations related to the procurement, construction and installation of JB, control panels and instrumentation, electrical, and cabling equipment and accessories related to two metering and provers systems
Workload Details	<ul style="list-style-type: none"> ■ Procurement and supply of goods and materials (P): ■ Procurement of mechanical equipment, electrical equipment and instrumentation ■ Executive operations (C): ■ Installation and implementation of mechanical equipment, electrical equipment and instrumentation
Investment Amount	16.8 billion Rials
Contractor	Behtaz System Company
Contract Type	PC



Project Title	Installation and Commissioning of 5 Loading Arms of Mahshahr Export Port
Goals	Procurement, installation and commissioning of 5 loading arms on piers 5 and 6
Job Description	Replacement, installation and commissioning of 3 loading arms from piers 1 and 2 to pier 5, installation and commissioning of 2 loading arms on pier 6
Workload Details	<ul style="list-style-type: none"> ■ Procurement and supply of goods and materials (P): ■ Procurement of mechanical equipment, electrical equipment and instrumentation ■ Executive operations (C): ■ Installation and implementation of mechanical equipment, electrical equipment and instrumentation
Investment Amount	176 billion Rials
Contractor	Iran International General Contracting Company (IGC)
Contract Type	PC



Project Title	Construction of Water Pipeline from Bahmanshir River to Abadan Oil Refinery
Goals	Supply of raw water required by Abadan oil refinery from Bahmanshir river
Job Description	<ul style="list-style-type: none"> ■ Construction of about 7 km of 48-inch pipeline between Bahmanshir River and Abadan oil refinery ■ Construction of 2 pumping stations and ancillary equipment including electrical substation, control and reconstruction room and catchment basins
Workload Details	Construction of 2 pumping stations, a water collection station, 6 pumps and 7 water transfer stations
Investment Amount	445 billion Rials
Contractor	Khatam al-Anbiya Construction Headquarters, Omran Sahel Co.
Contract Type	EPC



Project Title	Plan to enhance capacity and improve the quality of products of Imam Khomeini (RA) Shazand refinery
Goals	<ul style="list-style-type: none"> ■ Increasing the refining capacity from 170,000 barrels to 250,000 barrels per day by installing a new CDU unit with a capacity of 80,000 barrels per day with the implementation of the project ■ Increasing the daily production capacity of gasoline from about 30,000 to about 100,000 barrels per day ■ Changing the feedstock composition of the refinery from 100% of Ahwaz crude oil to a mixture of 55% of Ahwaz crude oil and 45% heavy oil from other fields ■ Increasing gasoline production in exchange for reducing fuel oil ■ Reduction of fuel oil (which is a heavy refinery product) from 38,000 barrels to 15,000 barrels per day ■ Production of products with specifications and quality of Euro 4 and 5 standard ■ Reduction of environmental pollutants
Job Description	The development project of Imam Khomeini (RA) Shazand Refinery has been implemented in order to respond to the change in the consumption pattern of the country from mid-range products to gasoline and improving the quality of items processed by Arak Refinery based on international standards.
Workload Details	<ul style="list-style-type: none"> ■ More than 2 million cubic meters of excavation and embankment ■ 1.652 km of pipe-laying ■ 4,000 km of cabling ■ 650 km of pipe welding ■ Laying an 84-inch pipeline ■ Construction and installation of 61 storage tanks with 160,000 square meters of sheet metal ■ Installation of the 1502 reactor with a diameter of more than 16 meters at the thickest part ■ Installation of the heaviest integrated equipment in the whole country weighing 1,470 tons
Investment Amount	IRR 49,200 billion
Contractor	A consortium of Oil Construction, Design and Construction Companies (ODCC) and (SEI)
Consultant	Workshop Management and Supervision Consultant: Partnership between Chemical Engineering Company and Abdal Industrial Design Management Company (MAPSA) Basic Design Consultant: JGC
Contract Type	EPC



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