





## At Iritec

We Take The Land



Deliver a Qualified
Plant





IRITEC seeks to create superior values, upgrading its main beneficiaries and customers' level of satisfaction through quality management, systematic approach and creating a strategy oriented, learning, healthy and elevated organization. Applying and sustaining continuous improvement are its fundamental strategies

( Part of the Strategy declaration )



### **Massage From Head Manager**

Iran International Engineering Company (IRITEC) as a systematic company which does his works, and services according to a well established system and plan is a thorough, efficient and determined company mainly specialized in the field of steel, metallurgy, mine, oil & gas and petrochemical and being leader in establishing and commissioning of industrial plants is hounored with half of a century experience as the first fore-runner in engineering consultancy in the field of metals and continuously is one of the flag holders of the country in the fields of engineering, procurement and supply of equipment, erection, commissioning and also training of Iranian personnel.

The great family of IRITEC inside or outside the country by reliance on capability and its human resources for achieving to a position of an active and flexible international company recognizes his duty to serve the country parallel with the growth and progress of country's industry and for achieving his goals commits it self to consider the fundemental and professional values of the industry . It goes, without saying that the direction (route) is difficult

to follow and the growth and betterhood without elevation of competencies and whole heartedly participation of all employers shall not be feasible.

It is my sincere hope in the future with the change of our attitudes and enhancing our moral values we can achieve the organizational main goals of IRITEC.

### **Farokh Aalipour**



### Introduction

### AT IRITEC

WE ARE COMMITED TO IDENTIFYING AND SATISFYING THE NEEDS AND EXPECTATIONS OF OUR COSTOMERS IN ALL ASPECTS THROUGH THE SKILLS AND EXPERTISE OF OUR STAFF.

Iran International Engineering Company (IRITEC) is one of the most successful general contractors in Iran with over 40 years of experience and skilled staff. IRITEC offers a wide range of services in EPC projects. Feasibility studies, planning, project management, engineering services, supply of equipment, inspection, equipment installation, supervision, commissioning and financing to cover its services to customers. Iran's growing industries and the requirements for the presence of capable and experienced contractors to reach the goals of the development of industries has given IRITEC the chance to become a general contractor with valuable experience gained through decades. IRITEC is capable of implementing huge projects in different fields both inside and outside Iran, exporting its services through the establishment of local and foreign companies and subsidiaries with a wide range of capabilities.

International and UP\_to\_date ISO certificates Holder and the first grade certificate from the Presidential Strategic Monitoring and Planning Management Organization (PSMPMO), has made IRITEC capable of offering services with a higher quality.



### History in Brief

1975 Iran International Engineering Company (IRITEC) was established with the cooperation of National Iranian Steel Industries Company, Bank of Industry and Mine and former Italian Company "ITALIMPIANTI" as shareholders to provide engineering services to Iranian Steel Industries

1990 Restructuring the company to meet the requirements of EPC projects

1991 Transformation from governmental to a private company.

1994 IRITEC establishes IRASCO, an Italian company, to facilitate the purchasing of imported equipment and implementation of huge turnkey projects.

1996 The first turnkey project assigned to the consortium of IRITEC & IRASCO from Mobarakeh steel company for the expansion of steel making shop.

2000 IRITEC turned into a general contracting company on the way towards development, through activating major business fields of mining, metallurgy, oil, gas and petrochemical industries.

2004 IRITEC becomes one of the five MIDREX ® license holders, by signing a license agreement with Kobe Steel, LTD.

2006 IRITEC's shining as a brand.

Today IRITEC provides a wide range of services to Mega industrial projects.



## IRITEC GROUP

IRITEC is a leading company with a group of subsidiaries, staffing more than 2000, enjoying the synergy of a cooperative workspace. Developing activities through the group, it can cover the full spectrum of capabilities needed to accomplish mega projects.

### **IRITEC**

BIDEC Engineering Company

IRIKA Engineering & Commercial Company (established in Dusseldorf, Germany)

IRASCO Commercial and Equipment Supply Company

IKA Inspection Company (with offices in Italy, Germany and China)

IKA sakht Manufacting Company

PAMICCO The construction Contractor Company

IMPADCO Metal Production Company

IMECCO Mining Consultant Company



## Orpanization

## IRITEC Company

**Board of Directors** 

Managing Director

**Subsidiaries** 

Shares, Assets and General Meetings Management

**Legal Actions Management** 

**ICT Management** 

**HSE Management** 

**Public Relation Management** 

Organizational Excellence & Development Management

**Engineering and Projects Deputy** 

Managing Director

Consultants

Finance & Human Recourse Development Deputy Marketing,
Development &
Contracts Deputy

**Commercial Deputy** 



## Local and foreign offices

## Offices

Inside the country offices and workshops

Ahwaz Bandar Abbas Esfahan Mobarakeh Chadormalou Tabas

Songun Neyshabur Kharg

Binak

Ardakan

Chabahar

Sarcheshmeh, Kerman

Ghaenat

Shahre Kord

Saqqez

Khaf

Outside the country offices

IRASCO (Italy / Genoa)

IRIKA (Germany/ Dusseldorf)

> IKA (China/ Beijing)



### Organization

### IRITEC Group companies (Companies in which IRITEC has stock)

### Bita Tarh Noavar (BIDEC)

Bita Innovative Design Engineering Company – Bita tarh Noavar Offering engineering services as well as the supervision of industrial projects

Irika Registered in Germany Engineering and commercial company

### Irasco Registered in Italy

Providing financial resources to projects, supply of industrial machinery and spare parts

### lka

Ika Engineering and Technical Inspection Company - with offices in Iran, Italy, Germany, China

Local and foreign inspections, NDT and reverse engineering of spare parts, investiving in the local manufacturing and supply companies

### Pamicco

Pars Mining and Industrial Construction and Installation Company Construction services for big industrial & mining projects

#### Imecco

(International Mine Engineering and Consultation Company) Mines and exploration engineering consultant

















### IRITEC Group companies (Companies in which IRITEC has stock)

### Impadco

International Metals Production and Development Company Establishing plants for producing metals (sponge iron) for steel industries

### Pipe Co

(Pars International PipeLine Company)
General contractor for pipe line implementation

### Foulad Paya

Manufacturing and installation of industrial equipments

### Touka Beton

Industrial civil works contractor

### Tamco

Supply of special equipment required for the execution and operation period of industrial projects

### Ika Sakht

(Manufacturing Company)

Specializes in manufacturing steel industries equipment and machinery.

### **Foulad Metil**

(Metil Iran and Steel Industries)

Manufacturing, industrial, commercial and technical activities in iron and steel industries





### **OUR CAPABILITIES**

Delivering sustainable and environmentally friendly products and solutions for customers is IRITEC's responsibility. During decades, we have learned how to choose the best international and local partners to construct plants with higher performance.

Costumers trust IRITEC's experienced team to manage and lead their projects with highest standards, efficiently and sensitive to environmental issues.

### Our Services

- Project Definition
- Project Management
- Feasibility Study
- Engineering
- > MC
- Inspection, Testing and Expediting
- Transportation
- > Construction, Erection and Commissioning
- Performance Test
- Training and after Sales Services

## Approach to Metallurgical and Mining projects: the full production chain

- Ore Excavation
- Ore Concentration
- Pelletizing
- Direct reduction of Iron ore
- Blast Furnace
- Melt shop
- Casting
- Billet Caster
- Slab Caster
- Hot Rolling Mill
- Cold Rolling Mill
- Galvanizing
- Final Products



Germany

### Membership

## Membership in associations and chambers of commerce ICC International Chamber of Commerce

- Banking & Credit Investment Consultant Center
- International Consultants and Contractors Association of Iran
- Iran Industrial Equipment Manufacturers Association (SATSA)
- Iron and Steel Society of Iran
- The R&D Society of The Iranian Industry, Mine & Commerce
- Deutsch Iranische Industrie und Handels Kammer
- Iran Italy Chamber of Commerce and Industry
- Iran- China chamber of commerce and industry
- Iran Iraq Chamber of Commerce and Industries
- Iran Emirates Chamber of Commerce
- Iran Afghanistan Chamber of Commerce Industries & Mines
- Iran France Chamber of Commerce and Industry
- Iran Germany chamber of commerce and industry





### Certificates

In order to fulfill its vision, IRITEC as one of the capital members of the country's technical & engineering societies and holder of certification for performing large EPC projects from the Presidential Deputy Strategic Planning and Control and the Oil Ministry, has always tried to keep up with the global knowledge and has settled the management systems accordingly by creating a team of specialized companies with broad skills, experience and knowledge.

In the first step, in 1995, this company received ISO9001:1994 certificate as the first engineering company in Iran and in 2002 it successfully transformed all its processes into ISO9001:2000 standard.

Now, all processes related to quality, safety, professional health and environmental management of this company are designed and integrated based on ISO9001:2008, OHSAS14001:2004 and OHSAS18001:2007 standards.















### Main Clients

## Metallurgy Mobarakeh Steel Company Khuzestan Steel Company Khorasan Steel Company Hormozgan Steel Complex Esfahan Steel Company Iran Alloy Steel Company Heavy Foundry and Forging Plant Project-Esfarayen Fajre Sepahan Galvanizing Industries Company National Iranian Steel Company National Iranian Copper Industries Company Iranian Aluminum Company (Iralco) Iranian Ghadir Iron and Steel Company Arfa Iron and Steel Company Persian Gulf Saba Steel International Metals Production & Development Company (IMPADCO) Chahar Mahal & Bakhtiari Automotive Sheet Company



Makran Chabahar Steel Co

Zobahan Saqqez Company

### Oil, Gas and Petro chemistry

National Iranian Oil Company

Iranian Offshore Oil Company

National Iranian South Oil Company

Khuzestan Petrochemical Company

National Iranian Gas Company

National Petrochemical Company

Petrolium Engineering & Development Company

Petrochemical Industries Development Management Company

Iranian Central Oil Fields Company

National Iranian Oil Engineering & Construction Company

Marun Petrochemical Company

Persia Oil and Gas Company

### Mine and Mining Industries

Iranian Mines and Mining Industries Development & Renovation Organization IMIDRO

Tabas Chadormalou Mining and Industrial Company

Gol Gohar Iron Ore Company

Iranian Mineral Production and Supply Company (IMPASCO)

Mavad Madani Shargh Foulad Khorasan MFG & Preparation

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Mazandaran Wood and Paper Industries



## Foreion Partners

Name of the Company	Country
ВНРЕ	Australia
WORLEY PARSONS	Australia
ROCHE MINING	Australia
SCI	Austria
INTECO	Austria
EBNER	Austria
UNIHA	Austria
CMI	Belgium
EMERSON	Canada
HATCH	Canada
ADAM	Canada
AMEC	Canada
GLE	Canada
NORWEST	Canada
SNC LAVALIN	Canada
TDE	Canada
SIMMONS	Canada
CIGC	China
GINTECH	England
ESKANSKA	England
MCLELLAN	England
COSTAIN	England
OUTO KUMPU	Finland
METSO	Finland
SKANSKA CEMENTATION	Finland
EVAC	Finland
OUTOTEC	Finland/Sweden/Germany
SOFREGAS	France
SOFREMINES	France
PROSERNAT	France
LITWIN	France
MIWENTI	Italy

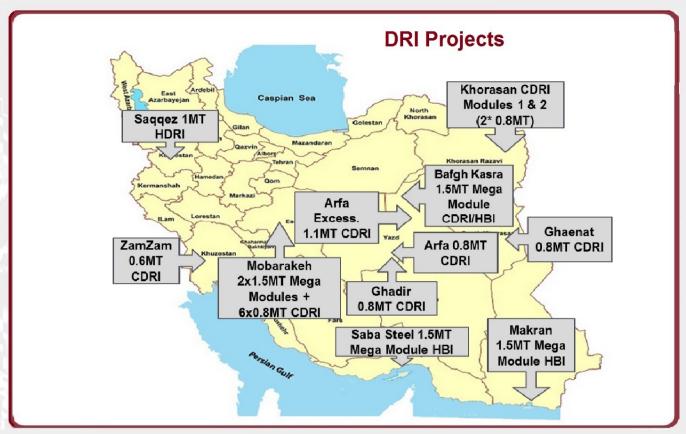


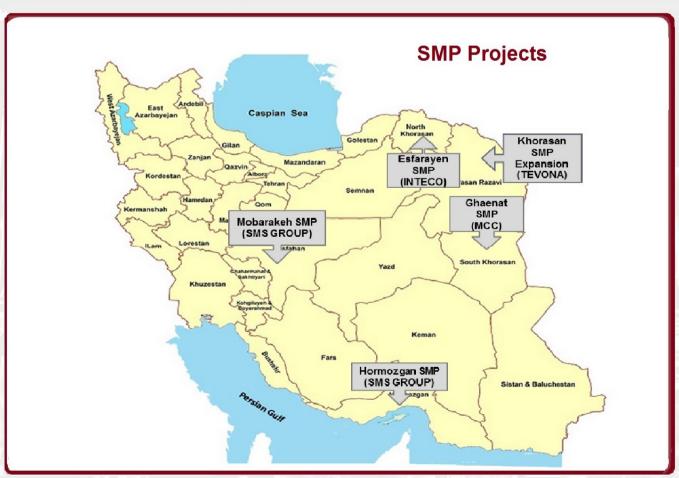
## Foreion Partners

Name of the Company	Country
AERZENER	Germany
BAYER TECHNOLOGY SERVICES	Germany
man ferrostaal	Germany
SMS- SIEMAG	Germany/ Italy
DASTUR	India
EIL	India
FLAT PRODUCT	India
HEG LTD.	India
TATA STEEL	India
KME	Italy
BASSI	Italy
SMS-INSSE	Italy
TENOVA	Italy
MINO	Italy
APS	Italy
ECOMIN	Italy
DANIELI	Italy
IMS	Italy
FISIA	Italy
SIIRTEC NIGI	Italy
TECHINT	Italy
TECHINT- TECHNOLOGIES	Italy
TECHNIMONT	Italy
ISI	Japan
KOBE STEEL	Japan
FAMUR	Poland
PYROMET	South Africa
BATEMAN	South Africa
tecnicas reunidas	Spain
SVEDALA	Sweden
ABB	Switzerland



## **Projects Location**







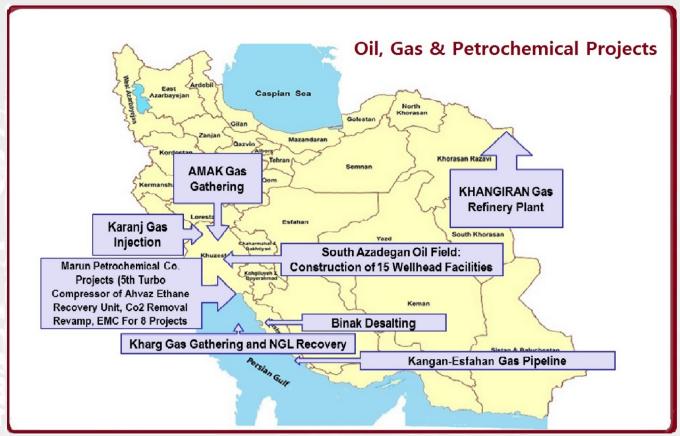
## **Projects Location**

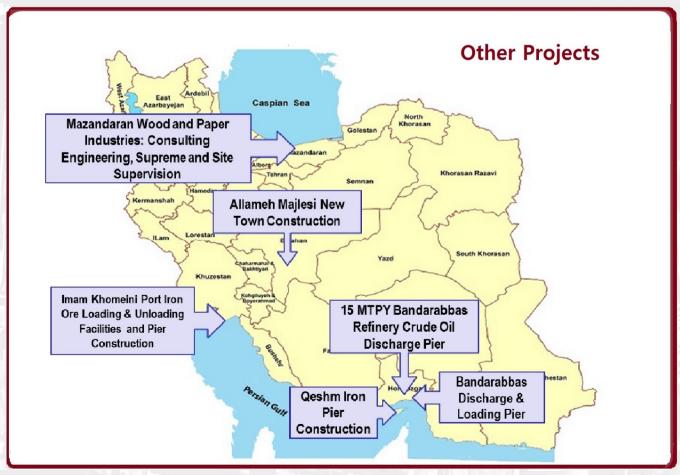






## **Projects Location**











## Preheat slab furnace



Project name	Preheat slab furnace
Client	Mobarakeh Steel Company
Contract typ	e EP
Commissioni	ng 1999
Location	Mobarakeh Steel Complex
Goals	Implementation of two preheat slab furnaces, each of which have the capacity of 310 tons an hour in the hot rolling mill unit of the complex
Project detai	To increase the production capacity of the complex, new furnaces were installed next to the existing furnaces and started up without interruption in the production of the complex. Furnace number 2 was started up inv Mehr 1999 and subsequently, the complex production capacity enhanced from 2.4 million tons to 3.2 million tons a year. In second phase of this project, the capacity of the hot rolling mill unit increased to 4.2 million tons a year by installation and start up of the preheat furnace number one along with making necessary changes on R3 shelf and coilers.



## Projects

## Ladle furnace Project



Project name	ladle furnaces
Client	Mobarakeh Steel Company
Contract type	EPC
Commissioning	1998
Location	Mobarakeh Steel Complex
Goals	Increasing the capacity of meltshop to 600 thousand tons per year
Project details	This workshop is able to deliver Clean & Slag- free ready for casting quality steel to the casting workshop as well as increasing the capacity of the melting shop products to 600 thousand tons a year by installing 4 ladle furnaces, changing the unloading mechanism of 8 arc furnaces to EBT and Argon gas blowing system.  The installation operation of 4 ladle furnaces and making changes on 8 arc furnaces were done simultaneously with producing the product of meltshop. Decreasing the melting time (tab to tab), saving energy and replacing the chemical energy with the electrical energy by blowing natural gas are the results of this project.



## Direct reduction Plant (F Module)



Project name	Direct Reduction Unit (F Module)
Client	Mobarakeh Steel Company
Contract type	EPC
Commissioning	2006
Location	Mobarakeh Steel Complex
Goals	Enhancing the production of sponge iron to 800 thousand tons per year
Project details	Module F direct reduction plant was established to increase the production of sponge iron and also to optimize the use of the existing establishments besides the other existing modules of the complex. The total weight of this plant's equipments is over 8300 tons and more than half of these equipments are local.



# Project of increasing the million tons 3.2 capacity of hot rolling mill to



Project name	Project of increasing the capacity of hot rolling mill to 3.2 million tons
Client	Mobarakeh Steel Company
Contract type	EPC
Commissioning	1998
Location	Mobarakeh Steel Complex
Goals	Increasing the capacity of hot rolling mill production from 2,400,000 tons to 3,200,000 tons per year
Project details	Design and installation of a new platform (F7) and making changes on the two existing shelves (F6, F5) in Mobarakeh hot rolling mill for the purpose of increasing the annual capacity of this unit's production. The important executive point of this project is performing the F7 shelf installation simultaneously with putting the existing production line into operation. IRASCO and INSSE undertook the equipment supply and IRISA was responsible for the project automation.



## Hot Charging project



Albert Brown	
Project name	Hot Charging project
Client	Mobarakeh Steel Company
Contract type	EPC
Commissioning	2011
Location	Mobarakeh Steel Complex
Goals	Enhancing quantity– quality of production, reducing the problems and warehousing costs, saving energy and reducing environmental pollution
Project details	By implementing this project, the hot slabs produced in the continuous casting unit (Pu. 28), are directly transferred to the hot rolling mill unit (Pu. 51) through roller tables and hardware and software systems.  The main feature of this project is manufacturing and installation of the modern advanced equipments of Hot Slab Handling with the cooperation of SMS DEMAG which is used for the first time in Mobarakeh Steel Complex to for hot charging.



## Batch Annealing furnace project



Project name	Batch Annealing Furnace project
Client	Mobarakeh Steel Company
Contract type	EPC
Commissioning	2006
Location	Mobarakeh Steel Complex
Goals	Balancing the downstream line capacity including the previous Annealing furnaces as required in the cold rolling mill expansion project.
Project details	Annealing furnaces project includes 33 furnaces with a new technology and a higher efficiency that removes the tension in H S L A, E D D Q, D D Q, D Q & C Q carbon steels. New furnace capacity is 700 thousand tons per year and uses H2 gas as the shielding gas.



# Steel Making Expansion to the capacity of million tons 4.2



Project name	Steel Making Expansion to the capacity of 4.2 million tons
Client	Mobarakeh Steel Company
Contract type	EPC
Commissioning	2005
Location	Mobarakeh Steel Complex
Goals	Improvement of the existing equipments in the steel making unit to increase the quantity and the quality of the molten metal production
Project details	<ul> <li>Improvement of the electric arc furnaces number 2 &amp;1 of module A and furnaces number 8&amp;7 of module B</li> <li>Making fundamental changes in material charging systems, dedusting, water cooler, different parts of the furnace and lime charging system</li> <li>Adding a 320 ton crane to the casting hall, a 110 ton crane in the ladle repair hall, provision and installation of 2 transfer cars to carry the empty ladle and provision and installation of 4 vertical stations of ladle preheater</li> <li>Increasing molten steel production to 4.2 million tons per year</li> </ul>



## Projects

### Shelf Tandem Mill and new Skin Pass 5 /Cold Rolling Mill Expansion



	Part of the second seco
Project name	Cold Rolling Expansion/ 5 shelf Tandem Mill and new Skin Pass
Client	Mobarakeh Steel Company
Contract type	EPC
Commissioning	2006
Location	Mobarakeh Steel Complex
Goals	making the cold rolling mill continuous and increasing the production
Project details	To make the cold rolling mill continuous by adding some equipments in the input and output of the shelves, Mobarakeh Steel Company chose IRITEC for the renovation of cold roll shelves and also installation of the new skin pass shelf, some parts of basic and detail design, provision of local equipment, montage of major part of foreign equipment in local workshops and the construction, installation and participation in start up. The installation activities of this project was successfully done after 2 predicted production line stops and the start up led to cold rolling mill becoming continuous and the increase in production capacity from 800 thousand tons to 1.5 million tons per year.



## Hot Rolling Mill Expansion



Project name	Hot Rolling Mill Expansion
Client	Mobarakeh Steel Company
Contract type	EPC
Commissioning	2005
Location	Mobarakeh Steel Complex
Goals	Improving the existing equipments of hot rolling mill to enhance the quality and quantity of the Hot Roll Sheets.
Project details	- Thermal tunnel installation - Improvement of final F-1 F6 shelves through Bending System installation - Improvement of final R3 roughing Installation of hydraulic loopers between F-1 F6 shelves - Installation of hydraulic pinch roll & slide guide for coilers ,1 3 & 2



## Projects

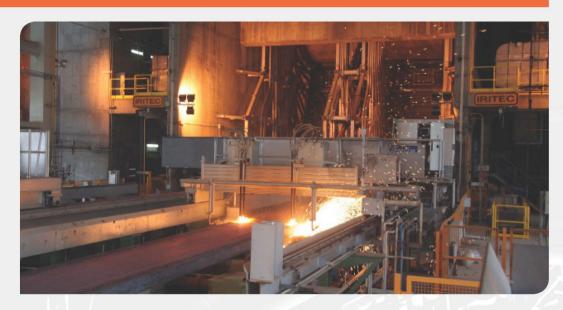
# Steel making unit reconstruction and capacity enhancement to 5.4 million tons



Project name	Steel making unit reconstruction and capacity enhancement to 5.4 million tons
Client	Mobarakeh Steel Company
Contract type	EPC - MC
Commissioning	2010
Location	Mobarakeh Steel Complex
Goals	Increasing the production capacity through optimization and updating the existing under roof equipments to the capacity of 5.4 million tons of molten steel per year
Project details	<ul> <li>Local equipments and structure and spare parts amounting to 20 thousand tons</li> <li>Installation and start up of all local and foreign equipments</li> <li>Providing necessary conditions for increasing molten steel production to 7.2 million tons per year</li> <li>This project is consisted of 2 parts: part A of the project is EPC and part B is MC</li> </ul>



## Hormozgan Steel Complex Project



Project name	Hormozgan Steel Complex Project
Client	ranian Mines and Mining Industries Development and Renovation Organization (IMIDRO)
Contract type	EPC- Finance
Commissioning	2010
Location	20 kilometers from Bandar Abbass west
Goals	Implementation of a Steelmaking Plant for production of 1.5 million tons of steel slab per year with the expansion capacity of 3 million tons
Project details	IRITEC, as the consortium leader, is responsible for the following:  - Performing detail engineering of local equipment and structures, foundations, buildings and infrastructure facilities.  - supply of 42500 tons of local equipment and structures  - Implementing all the civil works, foundations and metal structures and equipment installation and contribution in the start up of all SMS DEMAG units, whole plant design and providing financing and main part of foreign supply. Irasco is responsible for the provision of the other part of foreign supply spare parts and consumables.



## **Shahid Kharazi Direct Reduction**



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Project name	Shahid Kharazi direct reduction
Client	Mobarakeh Steel Company
Contract type	EPC
Commissioning	Under construction
Location	Mobarakeh Steel Complex
Goals	Establishing two direct reduction mega modules through Midrex method
Project details	Mobarakeh Steel Company has established two direct reduction mega modules through Midrex method, each by the capacity of 1.5 million tons per year (totally 3 million tons per year) to increase its steel production capacity by Making a contract with IRITEC & Irasco. Other facilities like Oxide pellet transportation system, sponge iron storage piles, product transportation system, cold briquette making unit, water cooling and purifying system will be designed and implemented simultaneously along with these modules. The total weight of project equipments is 30 thousand tons. IRITEC is responsible for all basic & detail engineering services, planning and project control, manufacturing and supply of local equipment, civil works and equipment installation, start up and production guarantee. The employer has to provide a part of equipments and concrete.



## Direct Reduction Plant (Zamzam module)



Project name	Direct reduction Plant (Zamzam module)
Client	Khuzestan Steel Company
Contract type	E
Commissioning	2001
Location	Ahwaz Steel Complex
Goals	Increasing the production of sponge iron in Ahwaz Steel Complex to 800 thousand tons per year
Project details	Khuzestan Steel Company assigned the establishment of a direct reduction plant to IRITEC to increase its production capacity. In this project, the possibility of optimized use of the existing infrastructure facilities in this unit adjacent to the direct reduction plants has been considered.  The total weight of this project's equipments is over 8700 tons. IRITEC has been responsible for all engineering services including the detail engineering, inspection an acceleration of local equipments, planning and project control and supervision and performance managements up to the end of the start up.



## Mining and Metals Marine Terminal



Project name	Mining and Metals Marine Terminal
Client	National Iranian Steel Company
Contract type	EM
Commissioning	2001
Location	20 kilometers from Bandar Abbass west
Goals	Implementation of a Mining and Metals Terminal for facilitating the loading and unloading of steel products and the raw material required in steel industries
Project details	Bandar Abbas Marine Terminal for mines and metals is the largest terminal for sending and receiving bulk mineral materials in the middle east and the eighth largest in the world. This terminal's jetty is 320 meters long and 38 meters wide which is made in the deep part of the sea with the distance of 1680 meters from the shore for berthing of the ships up to 100 thousand tons of capacity and is linked to the shore through a 13.8 meter access bridge. For the ships to reach the jetty, a 200 meter wide and 6.5 meter long canal and a rotating pool have been dredged under the sea. This terminal's equipments including ship & train loading and unloading equipments, shunting yard, material handling machines and the material transferring system weigh about 20 thousand tons and are provided by the German Krupp Company. This terminal is able to load and unload 8 million tons of bulk material per year by ship and 6 million tons by train.



# Khorasan Steel Direct Reduction 1<sup>st</sup> Module



Project name	Khorasan Steel Direct Reduction 1st Module
Client	International Metal Materials' Production and Development (IMPADCO)
Contract type	EPC
Commissioning	2009
Location	Neyshabur– Sbzevar kilometer 20, old road
Goals	Establishing Midrex direct reduction unit with the capacity of 800 thousand tons of sponge iron per year
Project details	Due to the demands of Khorasan Steel Complex and to increase the country's steel production capacity, Khorasan direct reduction project in 20 kilometers from Neyshabur, has been established on top of Khorasan Steel Complex and includes one Midrex direct reduction unit, train unloading, iron oxide handling, sponge iron collecting system and cold briquette making. The plant's capacity can be increased through Oxygen Injection. The basic and detailed engineering have been done based on the experiences of successful projects like Khuzestan Steel Zamzam, Mobarakeh Steel F module and the latest Midrex technologies.



# Khorasan Steel Direct Reduction 2<sup>nd</sup> Module



Project name	Khorasan Steel Direct Reduction 2nd Module
Client	Khorasan Steel Complex
Contract type	EPC
Commissioning	2010
Location	Neyshabur– Sbzevar kilometer 20, old road
Goals	Establishing one Midrex direct reduction unit with the capacity of 800 thousand tons of sponge iron per year
Project details	After executing Khorasan direct reduction 1st module project, due to requiring more sponge iron, Khorasan Steel complex decided to implement Khorasan's second module simultaneously with module 1with the aim of meeting the needs of melting unit and also better use of the facilities of Khorasan direct reduction 1st module project, and for this purpose, by increasing the capacity of iron oxide material handling units, sponge iron collection system, briquette making and utility were considered for being commonly used in both modules. Based on a contract, implementing the project as Turn Key has been rewarded by Khorasan Steel Complex to IRITEC-Irasco consortium. Plant establishment location is adjacent to the first module and Khorasan Steel Complex



#### **Ghadir Direct Reduction**



Project name	Iranian Ghadir direct reduction
Client	Iranian Ghadir Iron & Steel Company
Contract type	EPC
Commissioning	2010
Location	Kilometer 20 of Ardakan- Nayin road
Goals	Establishing a Midrex direct reduction unit with the capacity of 800 thousand tons of sponge iron per year next to Ardakan pelletizing complex.
Project details	Besides establishing a direct reduction unit, construction and operation of the cold briquette making unit, voltage reduction post from 63KV to 6.6 KV, sponge iron storage, material transfer system from Ardakan pelletizing, 27 kilometer water supply line and 1500 meter gas supply line are also in this project scope of works. Pamicco Is responsible for construction and Irasco is in charge of foreign supply.



## **Arfa Steel Direct Reduction**



Project name	Arfa Steel Direct Reduction
Client	Arfa iron & steel Company
Contract type	EPC
Commissioning	Under construction
Location	Kilometer 20 of Ardakan- Naein road
Goals	Establishing one Midrex direct reduction unit with the capacity of 800 thousand tons of sponge iron per year adjacent to Ardakan pelletizing complex.
Project details	In addition to establishing a direct reduction unit, construction and start up of the cold briquette making unit, voltage reduction post (from 10 kv to 6.6 kv), sponge iron storage, system of material transmission from Iranian Ghadir direct reduction entrance, sponge iron transfer from site to steelmaking, and 1,500 meter gas supply Were also included in the scope of this project. Pamicco is responsible for construction and Irasco for foreign supply. For the time being, a part of engineering, construction and supply has been carried out before the effectiveness of the Contract under an early start agreement.



# Galvanized sheet production



Project name	Galvanized sheet production
Client	Fajr e Sepahan Galvanizing Industries Company
Contract type	EM
Commissioning	2000
Location	Kashan
Goals	Producing 60 thousand tons of roll and 40 thousand tons of sheet annually
Project details	Production method is continuous in this project, that is, the cold rolled sheet enters the plant as roll and after it is opened and washed with chemicals and steam, it enters the non oxide furnace which is filled with HNX neutral gas. Then, the sheet enters the molten zinc ladle and after being plated in cooling tower, it is cooled with the air and retracted as a roll. 40 thousand tons of this product enters the market after being cut in sheets and packaged.



## Esfarayen ingot melting and casting



Project name	Esfarayen ingot melting and casting
- Tojeci name	Laray or migor moning and cashing
Client	Industrial Development and Renovation Organization of Iran (IDRO)
Contract type	EPC within the project section
Commissioning	2010
Location	North Khorasan– Kilometer 10 of Esfarayen– Bojnurd road
Goals	Establishing refined alloy steel melting and casting unit with the capacity of 120 thousand tons per year to provide the required ingot of rotary forging and press units of Esfarayen steel complex
Project details	<ul> <li>Foreign supply equipment weigh 2000 tons and local portion equipment weigh 5000 tons</li> <li>Total steel structure weight: 5000 tons</li> <li>Melting and casting hall area:23500 m2, melting hall 62 foundations, casting hall: 66 foundations, roof and body coverage: 36308 m2</li> <li>12 cranes of 160-8 tons in melting &amp; casting halls, 2 jib cranes, 2 EOT cranes in raw water and cool water treatment plants, 11 monorail cranes</li> <li>Concreting 45800 m2, reinforcement 2300 tons, formwork 54300 m2, earthwork 41000 m3</li> </ul>



## Kashan Cold Roll



Project name	Kashan cold roll
Client	Fajr e Sepahan Galvanizing Industries Company
Contract type	EM
Commissioning	2006
Location	Kashan– kilometer 14 of Kashan – Ardestan road
Goals	Establishing a cold roll line with the capacity of 250 thousand tons per year for producing steel sheets with the thickness of 2–0.3 mm and maximum width of 1250 mm.
Project details	Due to the growing local market specially for quality products and the proper supply of the input sheet for the existing galvanized sheet production line, Fajr e Sepahan Galvanizing Industries Company decided to establish a cold roll unit for producing 250 thousand tons cold sheet rolls per year in the location of the existing galvanizing plant. 100 thousand tons of the 250 thousand tons produced sheet is consumed in the existing galvanizing line and the other 150 thousand will go directly to the market after treatment and improvement of sheet quality surface.



Kashan cold rolling expansion project (Acid washing line and Stress Relieving furnaces)



	1.7.1
Project name	Kashan cold roll expansion project (Acid washing line and stress relieving furnaces)
Client	Fajr e Sepahan Galvanizing Industries Company
Contract type	Contract Management
Commissioning	2006
Location	Kashan– kilometer 14 of Kashan – Ardestan road
Goals	– Supplying cold roll unit raw material – Enhancing the product quality level
Project details	- Establishing a Stress Relieving furnace unit (Batch Annealing) with the capacity of 150 thousand tons a year - Establishing an acid washing unit with the capacity of 300 thousand tons a year



# Ghaenat Direct Reduction and Material Handling



Project name	Ghaenat direct reduction and material handling
Client	National Iranian Steel Company
Contract type	EPC
Commissioning	Under construction
Location	National Iranian Steel Company
Goals	Establishing the direct reduction unit by Midrex method with the capacity of 800,000 tons per year
Project details	National Iranian Steel Company has proceeded to establish a Midrex direct reduction unit with the capacity of 800 thousand tons per year in a contract with the cooperation of IRITEC- Irasco and Iran Offshore Engineering and Construction Company (IOEC) as the cooperation leader. Along with this unit establishment, other facilities like the material handling unit with the capacity of 2.5 million tons per year, sponge iron storage piles, briquette making unit, voltage reduction post, water purification and cooling system, executing gas and water supply lines will be designed and carried out. All activities regarding basic engineering and most of the detail engineering of this unit will be carried out based on the knowhow existing in IRITEC and its design& construction experiences in similar projects.



## Chaharmahal & Bakhtiari galvanized sheet



Project name	Chaharmahal & Bakhtiari galvanized sheet
Client	Chaharmahal & Bakhtiari Automotive sheet company
Contract type	EPC
Commissioning	2010
Location	Chaharmahal & Bakhtiari Province, 33 kilometers from Borujen
Goals	Producing 400000 tons of galvanized sheet roll per year with a high quality and suitable for being used in automobile manufacturing industries
Project details	IRITEC as the consortium leader has been responsible for the following:  - Performing the detail engineering of structures, foundations, buildings and local equipments  - Supplying structures and local equipments  - Executing all civil works, foundations, metal structures and equipment installation and contributing in the start up.  CMI Company has been in charge of Basic design, supplying foreign equipment and project start up.



## Khorasan Steel Making Expansion



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Project name	Khorasan Steel Making Expansion
Client	Khorasan Steel Complex
Contract type	EP
Commissioning	Under Constroction
Location	Khorasan Razavi Province, Kilometer 15 of Neyshabur– Sabzevar old roadce
Goals	Enhancing the production capacity of different levels of billet to 650 thousand tons per year
Project details	Khorasan Steel Complex proceeded to conclude a contract with IRITEC- Irasco consortium in 1387 to establish a melting and casting line with the capacity of 650 thousand tons with the aim of increasing its annual production capacity to 1.2 million tons.  This projects' main equipments include:  An electric arc and a ladle furnace each with the capacity of 110 tons  a six branch continuous casting station with the dimensions of 130x150 ,130x180 & 150x180, material transfer systems, water supply unit, electricity distribution, oxygen production and distribution, dedusting systems and central repair shop and lab  The local portion Equipments weigh about 1100 tons and the local portion equipments weigh 7000 tons  Total steel structure weighs 8150 tons  Area of Melting and casting: 24650 m2



# **Ghaenat Steel Making Project**



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Project name	Ghaenat Steel making project
Client	National Iranian Steel Company
Contract type	EPC
Commissioning	Under construction
Location	South Khorasan,35 kilometers North West of Ghaen province
Goals	Producing billet in different levels amounting to 800 thousand tons per year
Project details	National Iranian Steel Company has proceeded to establish a steel making unit and its facilities with the capacity of 800 thousand tons of billet per year in a contract with IRITEC-Irasco cooperation. This units' main equipments are as follows:  – An electric arc furnace and a ladle furnace, each with the capacity of 140 tons.  – a six branch continuous casting station for producing 130x130 to 200x200 billets of 6 to 12 meters long, material transfer systems, water supply unit, electricity distribution, oxygen production and distribution, dedusting systems and central repair shop and lab  – The local portion Equipments weigh about 9300 tons and the foreign portion equipments weigh 3300 tons. The steel structure weighs 7000 tons.









#### Persian Gulf Saba Steel Direct Reduction



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Project name	Persian gulf Saba Steel Direct Reduction
Client	Persian Gulf Saba Steel Company
Contract type	EP
Commissioning	2012
Location	Bandar Abbas / Khalij e Fras Metal & Mineral Industries' special zone
Goals	Establishing a direct reduction mega module by Midrex method with the capacity of 1.5 million tons a year
Project details	In this method, iron oxide is transferred to the material handling through train unloading or the truck in the form of pellets and then will be transferred from material handling area by conveyor belt to the storage piles and the top of the furnace and will be charged into the furnace afterwards. The pellet will be reduced and transferred to HBI machines from under the furnace after passing through various parts of the furnace. The reduced pellet which is called HBI hereinafter will be transferred to the product storage and accumulation area and will be prepared for sale or being transferred to the melting unit. The reduction gas is made through reforming natural gas inside the reformer and is injected into the reduction furnace.



# Bangestan Gas Gathering (AMAK)



Project name	Bangestan gas gathering (AMAK)	
Client	National Iranian Oil Company ( MATN)	
Contract type	EPC, Finance, Buy Back	
Commissioning	2012	
Location	Ahvaz	
Goals	Preventing the burning and wasting of 242 r layer which has continued since the beginni	
Project details	– Distribution of the execution Area	60000 km2
	- pipelines	280 km
	– Power transmission lines	95 km airline
	– Power post enhancement and expansion	3 posts
	– Sour gas pressure boosting	7 stations
	– Gas and sour gas liquid sweetening unit	1 plant
	– Acid gas pressure boosting	1 station
	- Number of compressors	83 with total power of 42000 horsepower
	- Number of compressors	23950 m2
	– Equipment approximate weight	45000 tons
	- Concreting volume	75000 m3
	– Earth work volume	363000 m3
	- Steel structure tonnage	5740 tons



## Kharg Gas Gathering and NGL Recovery



Project name	Kharg gas gathering and NGL recovery
Client	Iranian Offshore Oil Company
Contract type	EPC, Finance
Commissioning	Under construction
Location	Kharg Island
Goals	Construction of facilities for collection and separation of acid gasses from associating gasses, establishing 2 NGL units, injection of acid gasses, storage tanks and export jetty in Kharg Island
Project details	<ul> <li>2 units of onshore field gas reception facilities and their pressure boosting</li> <li>2 units of marine oil field gas reception facilities</li> <li>2 units of NGL with the total capacity of 600 MMSCFD</li> <li>2 pressure increasing units for the gas collected from oil wells and separating acid gas</li> <li>1 unit of depentanizer &amp; condensate stabilization</li> <li>3 cryogenic liquid butane &amp; propane full containment storages</li> <li>Gas condensate reservoir as floating roof</li> <li>Panthan reservoir with a fixed roof</li> <li>Product export jetty</li> <li>Power plant with 4 gas turbine units each by the power of 20 MW</li> <li>Water &amp; waste water purification facilities</li> <li>Other facilities such as instrument air package, nitrogen production, fire fighting system, flare, burn pit,etc.</li> </ul>



# Binak desalting plant



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Project name	Binak desalting plant
Client	National Iranian South Oil Company
Contract type	EPC
Commissioning	2013
Location	Boushehr province, Binak region
Goals	Establishing a desalting unit with the capacity of 50 thousand oil barrels per day
Project details	The input feed enters the desalting unit from the operation unit through a 10 inche pipeline. In this unit, the input oil is heated in 2 stages after increasing the pressure and enters the desalting package in which water & salt will be separated from the oil. Project's side facilities include compact air system, diesel generator, fire fighting water, flare, burn pit and evaporation pool.



# Projects

# **Engineering polymers**



Project name	Engineering polymers
Client	Khuzestan petrochemical company
Contract type	MC
Commissioning	2001
Location	Imam Khomeini Special Economic zone Port
Goals	Producing strategic products of polycarbonate and epoxy resins in different ranges
Project details	Establishing engineering polymer units that produce 25000 tons of polycarbonates & 10000 tons of epoxy resins per year by using the high tech and are mainly for exporting purposes. Considering polycarbonate features such as transparency, color stability, pressure and temperature resistance, formability and the like, this product will soon replace the glass in the world. Moreover, it is widely applicable in industrial final products like eye contact lenses, computer diskettes, building construction, aerospace, army & electronic industries. Epoxy resins have applications in paint and cover manufacturing industries due to having EPICHLORIDE materials in their formula and the three dimensional feature discovered in them.



# **Tabas Coal Mine Equipping Project**



Project name	Tabas coal mine equipping project
Client	National Iranian Steel Company
Contract type	EPC
Commissioning	2007
Location	85 kilometers south of Tabas province
Goals	Annual mechanized extraction of 1500000 tons of ROM (Run Of Mine) coal and producing 750000 tons of coal concentrate to be used in steel industries (phase one of the project)s
Project details	abas coal mine mobilization project is the first mechanized coal extraction project in Iran that uses mine machineries like Road Header, Shearer& Continuous Miner to extract coal. A turnkey contract based on financing with the insurance coverage of Italian export insurance organization (SACE) was concluded in 1378 between the client and IRITEC- Irasco consortium and became effective in 1380.  Based on the Addendum signed in 1383, the consortium is also responsible for the underground tunnels advancement operation.



# Projects

# Sarcheshmeh Copper Concentration Expansion



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Project name	Sarcheshmeh Copper Concentration Expansion
Client	National Iranian Copper Industries Company
Contract type	EP
Commissioning	2004
Location	Sarcheshmeh– Kerman province
Goals	Increasing the capacity of copper concentrate in Sarcheshmeh copper complex to 160000 tons per year concentrate grade %28 of copper- sulfur and 1600 tons of molybdenum concentrate grade %55.
Project details	IRITEC, as the consultant engineer, has been in charge of the design, local equipment procurement, supervision on the construction and installation, foreign equipment inspection and also planning & project control management.  Project measurements are as follows:  - local equipment: 6200 tons  - Foreign equipment: 4100 tons  - Concreting volume: about 60000 m3  - Steel structure weight: 5100 tons  - Number of local manufacturers: 50



## Sarcheshmeh Copper Concentration Expansion – Phase2



Project name	Sarcheshmeh Copper Concentration Expansion– Phase 2
Client	National Iranian Copper Industries Company
Contract type	EPC
Commissioning	2011
Location	Sarcheshmeh- Kerman province
Goals	Increasing the capacity of copper concentrate of %28 grade in Sarcheshmeh copper complex to 160000 tons per year
Project details	As a member of IRITEC- Irasco-Tanavob consortium, IRITEC is the leader of this cooperation. This project offers the following services:  - Management, engineering, local & foreign equipment procurement, manufacturing, installation, testing, precommissioning, commissioning, performance tests, training employer's personnel, operation management for 6 months and supplying the spare parts for 2 years of operation, and supplying consumables for 6 months of the plant operation. IRITEC's main commitments in this project are:  - Participating in the finalization of project basic engineering endorsement, carrying out the detail design of the project, procurement of local equipment and consumables, leadership & participation in testing and commissioning of the project.



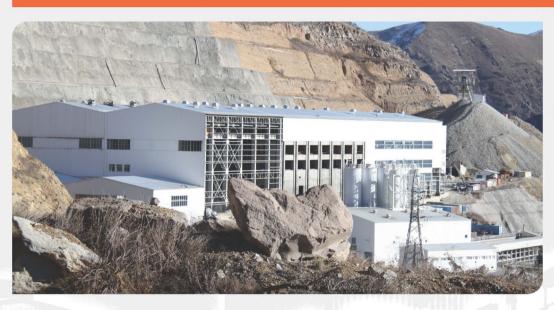
# Engineering & Procurement of Chadormalu Iron Ore Concentration Plant Fourth Line



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Project name	Engineering & Procurement of Chadormalu Iron Ore Concentration Plant Fourth Line
Client	Chadormalu mining & industrial company
Contract type	EM
Commissioning	2007
Location	180 kilometers North East of Yazd, Yazd province
Goals	Establishing the fourth line of iron ore concentrate production & concentration plant with the capacity of about 1.5 million tons per year
Project details	IRITEC is responsible for the engineering and local equipment procurement management of this project which Kobe Steel supplies its foreign equipment. The total weight of the project equipments' is about 10000 tons, about 2500 tons of which being local and are classified as follows:  - Metal equipment including all storage tanks, floatation cells, chute, etc  - Material transfer equipment including the conveyor belts, roof crane and elevators  - Utilities like fan, compressor, pipes, joints,  - Electric equipment including MV boards, diesel generators, cables,



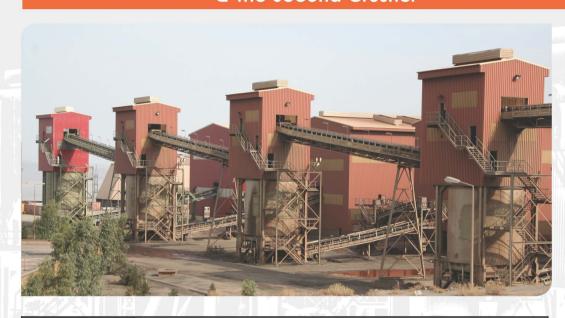
# **Sungun Copper Concentration Plant**



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Project name	Sungun Copper Concentration Plant
Client	National Iranian Copper Industries Company
Contract type	EP
Commissioning	2006
Location	East Azerbaijan – Ahar province
Goals	Establishing a copper concentration plant with the capacity of 7 million tons mine ore as the plant feed and producing 150,000 tons of (about) %30 grade concentrate per year in phase one.
Project details	IRITEC as the consultant engineer, has been in charge of design, local equipment procurement, supervision on the construction and installation, foreign equipment inspection and also planning and project control management.  Project measurements are as follows:  - Local equipment: 6000 tons  - Foreign equipments: 3800 tons  - Concreting volume: 82750 m3  - Steel structure weight: 3600 tons  - Number of local manufacturers: 60



# Chadormalu Fifth Concentration Line & The Second Crusher



Project name	Chadormalu fifth concentration line and the second crusher	
Client	Chadormalu mining & industrial company	
Contract type	EPC , crusher on EP basis	
Commissioning	2012	
Location	180 kilometers North East of Yazd, Yazd province	
Goals	Establishing the fifth line of iron ore concentration plant with the capacity of 1.7 million tons per year	
Project details	<ul> <li>Total weight of project equipments: about 11000 tons</li> <li>About 2500 tons local equipment</li> <li>Project main foreign equipments: crusher, fag mill, bullet mills</li> <li>Process equipments such as HGMS, floatation and thickeners mechanism system</li> <li>Filters system equipments, slurry pumps, screens and Hydro cyclones, instrument &amp; control systems, etc</li> <li>Project main local equipments: all thickener and material storages, pump boxes, floatation cells and chutes, silos and pressure vessels</li> <li>Material transfer equipments including cranes and conveyor belts, utilities like compressor, cooling tower, electrical equipments like boards, transformer, diesel generator and cables, process equipments like screw classifier, HIMS, etc</li> </ul>	



## Kahnouj Titanium Project – Consultant Services



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Project name	Kahnouj Titanium Project Consultant Services
Client	IMPASCO
Contract type	E
Commissioning	-
Location	Kerman province, 250 kilometers South of Kahnouj province
Goals	Stdy, investigation and exploration of titanium mine in order for the implementation of concentrate, slag plant to produce pigment and as a result, titanium
Project details	titanium mine is divided into two mining fields, one of them is rock mine deposit and the other is placer deposit. In this contract IRITEC and its local & foreign subcontractor are responsible for the following activities:  • Kahnouj Titanium deposit detailed exploration studies  • Feasibility studies of mines  • Environmental engineering  • Power supply engineering  • Fuel supply engineering  • Water supply engineering  • site selection



## Floating Cardboard & Paper Production Plant



Project name	Floating cardboard & paper production company
Client	Mazandaran paper & wood industries' company
Contract type	MC
Commissioning	1997
Location	Sari
Goals	Implementation of a plant with the capacity of 175 thousand tons newspaper paper, print paper and floating cardboard per year
Project details	Design & procurement contract with a consortium of four European & Canadian companies which became effective in winter 1992 and IRITEC was assigned as project's main consultant. Equipment installation of this project ended in summer of 1997 and right now it's being operated. The notable point about the management method in this project is its execution duration. Despite unpredicted delays and specific circumstances of its execution, this project was ready for the operation a year earlier than the date predicted by the consortium.



#### **Saqqez Direct Reduction Plant**



Project name	Saqqez Direct Reduction Plant	
Client	Foolad Gostar Almas Company	
Contract type	EPC	
Commissioning		
Location	Saqqez, Kordestan Province	
Goals	1,000,000 TPY DRI Plant (CDRI/HBI)	
Project details	Engineering Services, Procurement and Construction Services, Inspection, Installation, Testing, Commissioning and Implementation of 1,000,000 TPY DRI Plant using MIDREX Technology including Warehouses and Stacker and Reclaimer System and all other infrastructures.	



#### Makran Chabahar Steel Complex Mega Module Direct Reduction



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Project name	Makran Chabahar Steel Complex Mega Module Direct Reduction				
Client	Makran Chabahar Steel Company				
Contract type	EPC				
Commissioning					
Location	Chabahar, Sistan and Balouchestan Province				
Goals	1,600,000 TPY DRI Plant (CDRI/HBI)				
Project details	Engineering Services, Procurement and Construction Services, Inspection, Installation, Testing, Commissioning and Implementation of a Mega Module DRI Plant using MIDREX Technology including Warehouses and Stacker and Reclaimer System and all other infrastructures at the site which is located close to Chabahar Commercial Free Zone.				



# Projects

## Sangan Iron Ore Concentration



Project name	Sangan Iron Ore Concentration		
Client	Mavad Madani Shargh Foulad Khorasan MFG & Preparation		
Contract type	EPC		
Commissioning	_		
Location	Sangan Iron Ore Mine Region in Khorasan Razavi Provice		
Goals	Implementation of an Iron Ore Concentration Plant with a Capacity of 2/5 mt/Y		
Project details	The Plant includes all Beneficiation Operations such as Crushing Units, Ore Handling, Stacking & Reclaiming with a total Capacity of 280,000 t/d and Crushed Ore Storage Equipment for annual Capacity of 5,000,000 t/y, Grinding & Dewatering System, Truck & Wagon Loading, Landscaping & Constraction of Semi-industrial Buildings and other non-proccess buildings and Facilities. In this Project the Production of Iron Ore Concentrate is at Least Grade of 67.8% and Diameter of 40 Microns, for the Main Charging of Pelletizing Plant		



## **Iritec Projects From the Beginning Until Now**

Rov	Projects	Row	Projects
1	Mobarakeh Steel Complex: Direct Reduction Plant F Module (EPC)	30	Mobarakeh Steel Complex: Under the Roof Expansion Project (MC)
2	Mobarakeh Steel Complex: Shahid Kharazi Mega Module Direct Reduction Plant 1 & 2 (EPC)	31	Mobarakeh Steel Complex: Hot Rolling Mill Plant Expansion-Walking Beam Project (EPC)
3	Mobarakeh Steel Complex: 5 Direct Reduction Plants Module A to E (EMC)	32	Mobarakeh Steel Complex: Hot Rolling Mill Roller Table Construction (EPC)
4	Mobarakeh Steel Complex: Direct Reduction Plant Exploitation (E)	33	Mobarakeh Steel Complex: Steel Making Plant Expansion (EPC)
5	Khouzestan Steel Complex: Zamzam Direct Reduction Plant (E)	34	Mobarakeh Steel Complex: Preheat Slab Furnace 1 & 2 (EPC)
6	Khorasan Direct Reduction Plant 1st Module (EPC)	35	Mobarakeh Steel Complex: Local Equipment Engineering and Procurement (EP)
7	Khorasan Direct Reduction Plant 2nd Module (EPC)	36	Mobarakeh Steel Complex: Cold Rolling Mill No. 2 Local Equipment Engineering & Procurement (EP)
8	Ghaenat Steel Complex: DR & Material Handling Plant (EPC)	37	Mobarakeh Steel Complex: Central Workshop Construction (MC)
9	Persian Gulf Saba Steel Mega Module Direct Reduction Plant (EPC)	38	Mobarakeh Steel Complex: Material Handling Plant Expansion (EMC)
10	Iranian Ghadir Iron and Steel Company (IGISCO): Direct reduction Plant Project (EPC)	39	Mobarakeh Steel Making Plant Rivisory Engineering and Technical Consulting (E)
11	Iranian Ghadir Iron and Steel Company: Engineering, Consulting and Supreme & Site Supervision Services (E)	40	Mobarakeh Steel Complex: Two Stands Tendem Cold Rolling Mill Unit (E)
12	Arfa Iron and Steel Company: Direct Reduction Plant Project (EPC)	41	Mobarakeh Steel Complex: Supreme and Site Supervision (EMC)
13	Arfa Iron and Steel Company: Capacity Excess of the Direct Reduction Plant (EPC)	42	Mobarakeh Steel Complex: Galvanizing & Color Coat Plating Plant (E)
14	Makran Chabahar Steel Complex: Mega Module Direct Reduction Plant (EPC)	43	Amir Kabir Kashan (Fajre Sepahan): Galvanized Sheet Production Plant (EPC)
15	Foolad Gostar Almas: Saqqez Direct Reduction Plant (EPC)	44	Amir Kabir Kashan (Fajre Sepahan): Cold Rolling Mill Plant (EPC)
16	Bafgh Kasra: Mega Module Direct Reduction Plant (E)	45	Amir Kabir Kashan (Fajre Sepahan): Annealing and Pickling Line of Cold Rolling Mill Plant (EPC)
17	Khouzestan Steel Complex: Engineering Services (E)	46	Chaharmahal & Bakhtiari: Galvanized Sheet Plant (EPC)
18	Khouzestan Steel Complex Expansion (EMC)	47	Esfarayen Ingot Melting and Casting Plant (EPC)
19	Mobarakeh Steel Complex: Supervison Services (EMC)	48	Esfarayen Steel: Consulting Engineering Services (E)
20	Mobarakeh Steel Complex: Engineering Services (E)	49	Hormozgan Steel Making Plant (EPC)
21	Mobarakeh Steel Complex: Equilibrium & Expansion Projects (MC)	50	Hormozgan Oxygen Plant Expansion- Hp & LP Tanks (EPC)
22	Mobarakeh Steel Complex: Ladle Furnace Project (EPC)	51	Hormozgan Steel Complex: Lance System for Electric Arc Furnaces (EPC)
23	Mobarakeh Steel Complex: Hot Rolling Mill Expansion (EPC)	52	Hormozgan Steel Complex: Rail Loading and Unloading in Bandarabbas (EMC)
24	Mobarakeh Steel Complex: Batch Annealing Furnace Project (EPC)	53	Ghaenat Steel Making Plant (EPC)
25	Mobarakeh Steel Complex: Cold Rolling Mill Expansion Skin pass & Pickling line (EPC)	54	Khorasan Steel Making Plant (EPC)
26	Mobarakeh Steel Complex: Hot Slab Transfer Project (EPC)	55	Khorasan Steel Complex: Oxygen Plant (EPC)
27	Mobarakeh Steel Complex: Tension Reel (No. 2) Construction for New Pickling Unit (EPC)	56	Khorasan Steel Complex: Warehousing Services for Steel Making Plant
28	Mobarakeh Steel Complex: Revamp of Furnace Dust Cleaning System (EPC)	57	Ardakan Graphite Electrode Plant (EPC)
29	Neyshabour Khayyam Steel: Hot Rolling Mill Project (MC)	58	Finex-Kem Steel Making Process (EMC)



## **Iritec Projects From the Beginning Until Now**

Rov	v Projects	Row	Projects
	Mobarakeh Steel Complex: Esfahan Iron and Steel		Khouzestan Petrochemical Complex: Engineering
59	Research Institute Establishment (MC)	88	Polymers Project (E)
60	National Iranian Steel Company: Consulting Engineering Services (E)	89	Karoun Petrochemical (EMC)
61	Esfahan Steel Company: Supreme Supervision Services for Oxygen Plant (EMC)	90	Mahshahr Refinery Revamp Project (EPC)
62	Kavian Steel: Engineering Services (E)	91	AMAK Plant: Bangestan Gas Gathering Project (EPC)
63	Azarbaijan Steel: Engineering Services (E)	92	National Iranian South Oil Company: Binak Desulting Plant (EPC)
64	Sarcheshmeh Copper Equilibrium Project (EC)	93	Kharg Island Gas Gathering & NGL Recovery Project (EPC)
65	Copper Concentration Expansion Consulting Services (E)	94	National Iranian South Oil Company: Karanj Gas Injection Project (E)
66	Sarcheshmeh Copper Concentration Expansion Engineering Services (E)	95	Maroon Petrochemical Complex: 5th Turbo Compressor of Ahvaz Ethane Recovery Unit (E)
67	Sarcheshmeh Copper Concentration Plant: Local Equipment Procurement (P)	96	Maroon Petrochemical Complex: Co2 Removal Revamp Project (E)
68	Sarcheshmeh Copper Concentration Plant Expansion Phase 2 (EPC)	97	Maroon Petrochemical Complex (EMC)
69	Sungun Copper Concentration Phase 1 (EP)	98	South Azadegan Oil Field: Construction of $15$ Wellhead Facilities (EPC)
70	Sungun Copper Industry Smelt, Acid & Refinery Units (EMC)	99	National Iranian Steel Company: Feasibility Study for Steel Export Potentials (FS)
71	Sungun Copper Concentration Phase 2 (E)	100	Hormozgan Steel Complex: Feasibility Study for Phase Zero (FS)
72	National Iranian Oil Products Distribution Company: 15 MTPY Bandarabbas Refinery Crude Oil Discharge Pier (EPC)	101	General Organisation of Engineering Industries *Handasieh: Feasibility Study for Establishment of a Steel Making Plant in Syria (FS)
73	Hormozgan Steel Complex: Bandarabbas Discharge & Loading Pier (EMC)	102	National Iranian Steel Company: Feasibility Study for Cold Rolling Mill Plant (FS)
74	Imam Khomeini Port Iron Ore Loading & Unloading Facilities and Pier Construction (EPC)	103	Khorasan Steel Complex: Feasibility Study for 1.2 MTPY Production Excess (FS)
75	Qeshm Iron Pier Construction (EMC)	104	Industrial Development & Renovation Organization of Iran: Feasibility Study for Wide Sheet Production Plant (FS)
76	Konarak Chabahar: Desalination System (MC)	105	TATA Steel Company: Feasibility Study (FS)
77	Allameh Majlesi New Town Construction (EPC)	106	Oroumieh Steel Company: Feasibility Study (FS)
78	Mazandaran Wood and Paper Industries: Consulting Engineering, Supreme and Site Supervision (EMC)	107	Sahand-e-Gharb Steel Company: Feasibility Study for Composite Sections Production Plant (FS)
79	Sangan Iron Ore Concentration Plant (EMC)	108	Poolad Kavian Pasargad: Feasibility Study for Steel Making Plant (FS)
80	Tabas Parvarde Coal Company: Mining Services (EMC)	109	Mobarakeh Steel Complex: Feasibility Study for Plant Expansion (FS)
81	Tabas Coal Mine & Coal Washing Plant (EPC)	110	North Fars Steel Complex: Feasibility Study (FS)
82	Kahnouj Titanium Processing Plant: Consulting Engineering Services (E)	111	Fasa Steel Complex: Feasibility Study for Pipe Production Project (FS)
83	Chadormalou Iron Ore Concentration Plant Line 4 Engineering & Local Equipment Procurement (EP)	112	Persian Gulf Mining & Metal Industries Special Economic Zone: Feasibility Study for 1 MTPY Slab Production (FS)
84	Chadormalou Iron Ore Concentration Plant Line 5 (EPC)	113	Asr-e-Arman Tejarat Company: Feasibility Study for Construction of 20,000 Barrels of Crude Oil Petro Refinery (FS)
85	Chadormalou Iron Ore 2nd Crushing Unit (EPC)	114	Negin Sofal Minab Company: Feasibility Study for Construction of $10,000$ Barrels of Crude Oil Mini Refinery (FS)
86	Sangan 2.5 MTPY Iron Ore Concentration Plant (EPC)	115	Hami Petroleum and Refinery: Feasibility Study for Construction of $25,000$ Barrels of Gas Condensate Refinery (FS)
87	Second Iran Gas Trunk Line (Kangan-Isfahan Section): Installation Supervision (MC)	116	Khangiran Gas Refinery: Engineering Supervision (MC)



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Prepared by
IRITEC public relations
department
(Four edition)
2020





