

**MMTE**  
Mines/Metals Technology & Engineering Co.







## MMTE in Brief

---> Mines & Metals Technological Engineering (MMTE) Company was founded in 2002 with initial investment partnership of Mines & Metals Engineering (MME) Company.

The main purposes for establishment of the company is to transfer the latest technologies to Iran, development and localization of those technologies in processing of crude metals and mining industries, efforts to stop the sale of raw minerals, efficiency enhancement and exportation of technical services and equipment in this area.

In the framework of an economic institute and by the observance of technical and qualitative principles, MMTE is active in diverse business lines including: research, design and engineering, procurement and construction (EPC), consultancy and supervision, operation and management of mining and metal industries.

Based on experiences and achievements due to the efforts of engineers and experts, acquisition of international standards and active presence in large steel complexes, MMTE Company has been able to bring a great honor for our precious country Iran in design and execution of industrial projects by increasing the production capacity of Direct Reduced Iron (DRI) and Steelmaking plants.





Steelmaking Project ,Sirjan, Iran



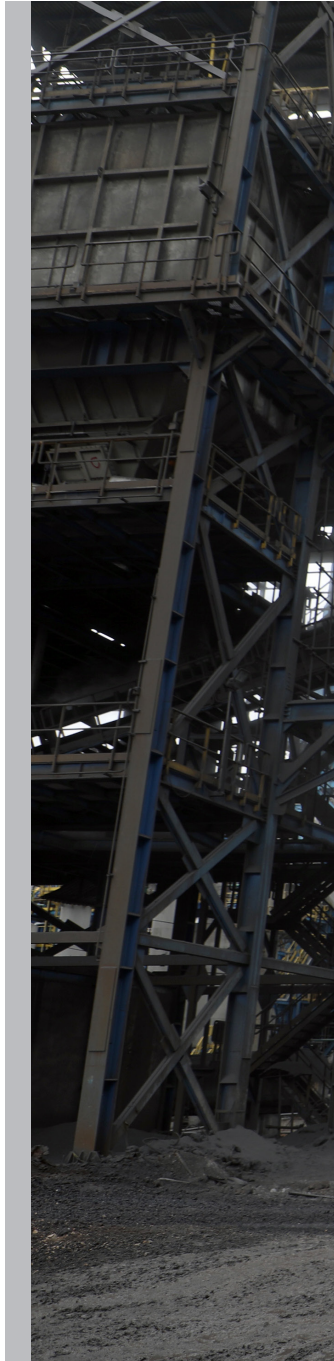


## Traits of MMTE Co.

- ✧ Integrated effective macro-management
- ✧ Possessing a MIDREX DRI license from Kobelco/Kobe Japanese steel company
- ✧ Utilizing the specialized, young, skilled and experienced staff
- ✧ Compliance with professional ethics
- ✧ Providing services with up-to-date world knowledge, responsibility and accountability
- ✧ Possessing license, knowledge and expertise in direct reduction technology
- ✧ Consultation and execution of pelletizing unit
- ✧ Execution of steelmaking unit by electric arc method
- ✧ Holding an engineering, procurement and construction (EPC) certificate in the area of metal industries from Iran`s Management and Planning Organization
- ✧ Holding a certificate of consulting services in the fields of facilities installation, electrical, mechanical and structural engineering and basic metals industries from Iran`s Management and Planning Organization
- ✧ Comprising subsidiary companies in order to empower EPC activities including: Fouladkar Company, Aria hadeed Company and Madaen Company
- ✧ Effective communication with companies holding the latest technologies in the world such as: Danieli, SMS, TENOVA, Kobe Steel and MCC
- ✧ Communication and cooperation with the best equipment manufacturers including: Siemense, ABB, Aertzener, Venti-Oelde, Tamini, Schmidt+Clemens, Taim

## MMTE Roadmap

- ✦ Increasing the contribution in the execution of industrial and mining projects in Iran, the formation of commercial consortia, acquiring technical knowledge and application of new technologies in the world, development international activities.
- ✦ Purposeful development of the company`s human resources through the promotion of knowledge, professional ability, teamwork, increasing personnel satisfaction, and protection of expert staff
- ✦ Increasing customers and business partners satisfaction and reliance through accurate planning in order to complete projects on time
- ✦ Supply of goods, equipment, and services with desirable quality
- ✦ Continuous development of facilities and infrastructures to promote service quality, prevention of environmental pollution, eliminating hazards and reducing safety risks and occupational health, and commitment to comply with legal and professional requirements
- ✦ Development activities through the subsidiary companies in the terms of execution and construction of the required equipment for projects and the localization advancement of processes and equipment
- ✦ Systematic integration of subsidiary companies affiliated to MMTE as the parent company
- ✦ Activity development through entry into the operation of steel plants







Pasargad Project ,Shiraz, Iran



Ardakan Project, Yazd, Iran



Four Direct Reduced Iron (DRI) Projects ,Operating & Under Construction by MMTE Company

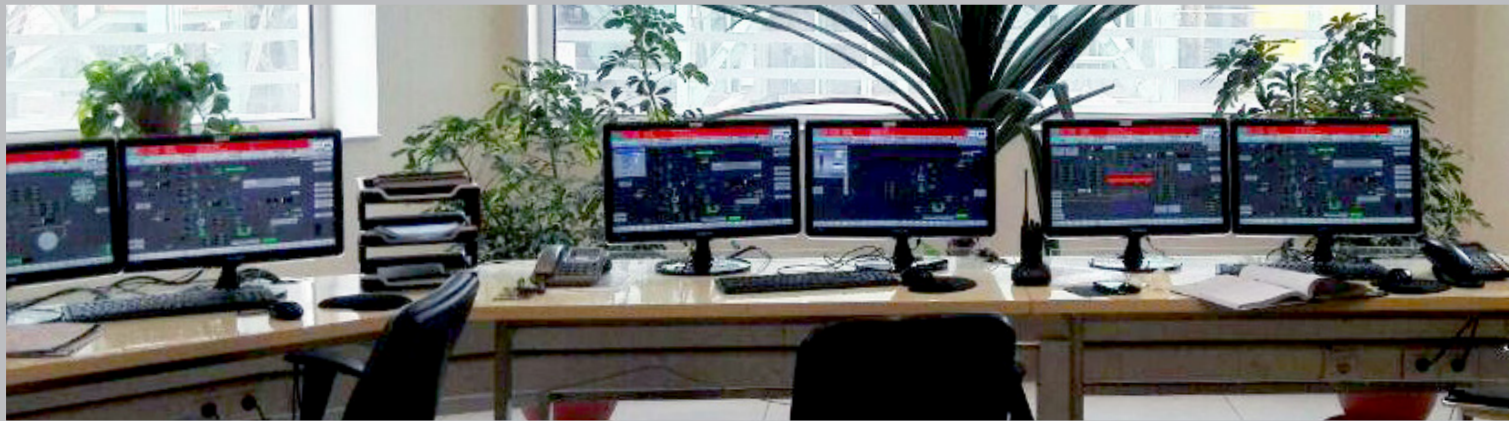
Gohar Project, Sirjan, Iran



Kowsar Project, Sirjan, Iran



Pasargad Project, Shiraz, Iran





## MMTE group

### Fouladkar Co.

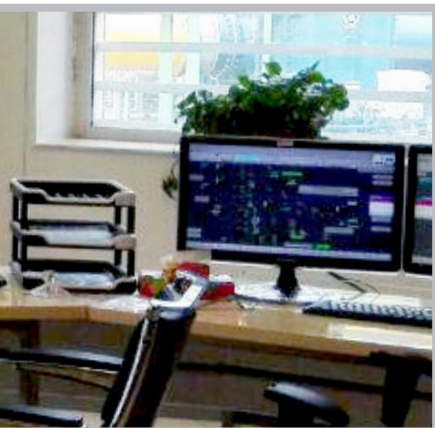
as a member of MMTE group, possessing a separate workshop equipped with machines related to the steel industry continuum, is active in the area of manufacturing fixed and heavy equipment for steelmaking factories and other related areas of industry. Some of the major projects carried out by Fouladkar Company are the equipment manufacturing for steelmaking and DRI plants including Gol Gohar, Kowsar, Jahan Foulad Sirjan, Chaharmahal (Sepid Dasht steel plant), Saba Mobarakeh, Sabzevar, Pasargad, Zamzam 3, Tooba, Torbat Heydariyeh and Miyaneh.

### Aryahadeed Co.

a member of MMTE group, which is active in construction of metallic structures, installation and operation of steelmaking factories and other related areas of industry by employing capable engineers, utilizing factory construction machineries and benefiting from sufficient experience in the field of civil.

### Madaen Co.

as a member of MMTE group, is active in design and consulting, construction, installation and operation of industrial automations and information technology development.





A steelmaking plant in operation  
(Jahan Foulad Sirjan)



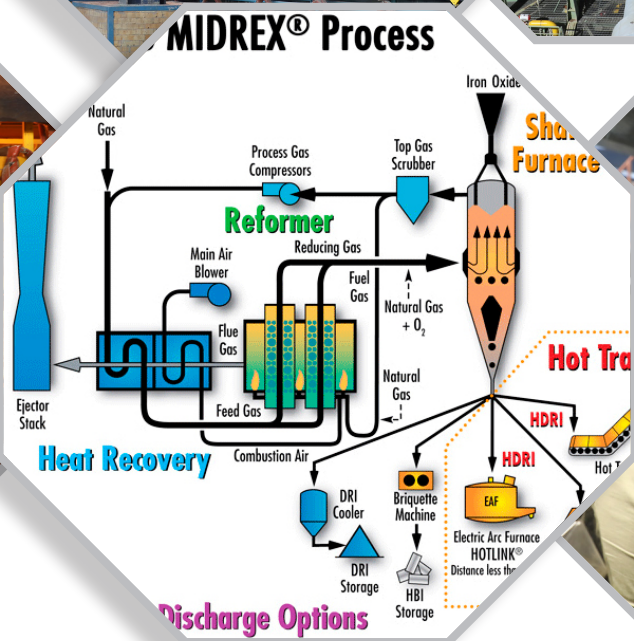


## Fields of Activity

- > 1. Execution of EPC and EPCF projects in the steel industry continuum comprising:
  - a) Mines
  - b) Pelletizing
  - c) Direct Reduction
  - d) Steelmaking
  - e) Rolling (rebar-sheet)
- > 2. Design and engineering of projects
- > 3. Supply of goods and equipment
- > 4. Execution of projects (civil, construction and installation of equipment)
- > 5. Reconstruction and improvement of projects, increasing the capacity under the existing limits
- > 6. Research and feasibility studies
- > 7. Consulting and project management in the mining and steel industries, including: pelletizing, direct reduction, steelmaking and sheet rolling units
- > 8. Execution of steel plants operation

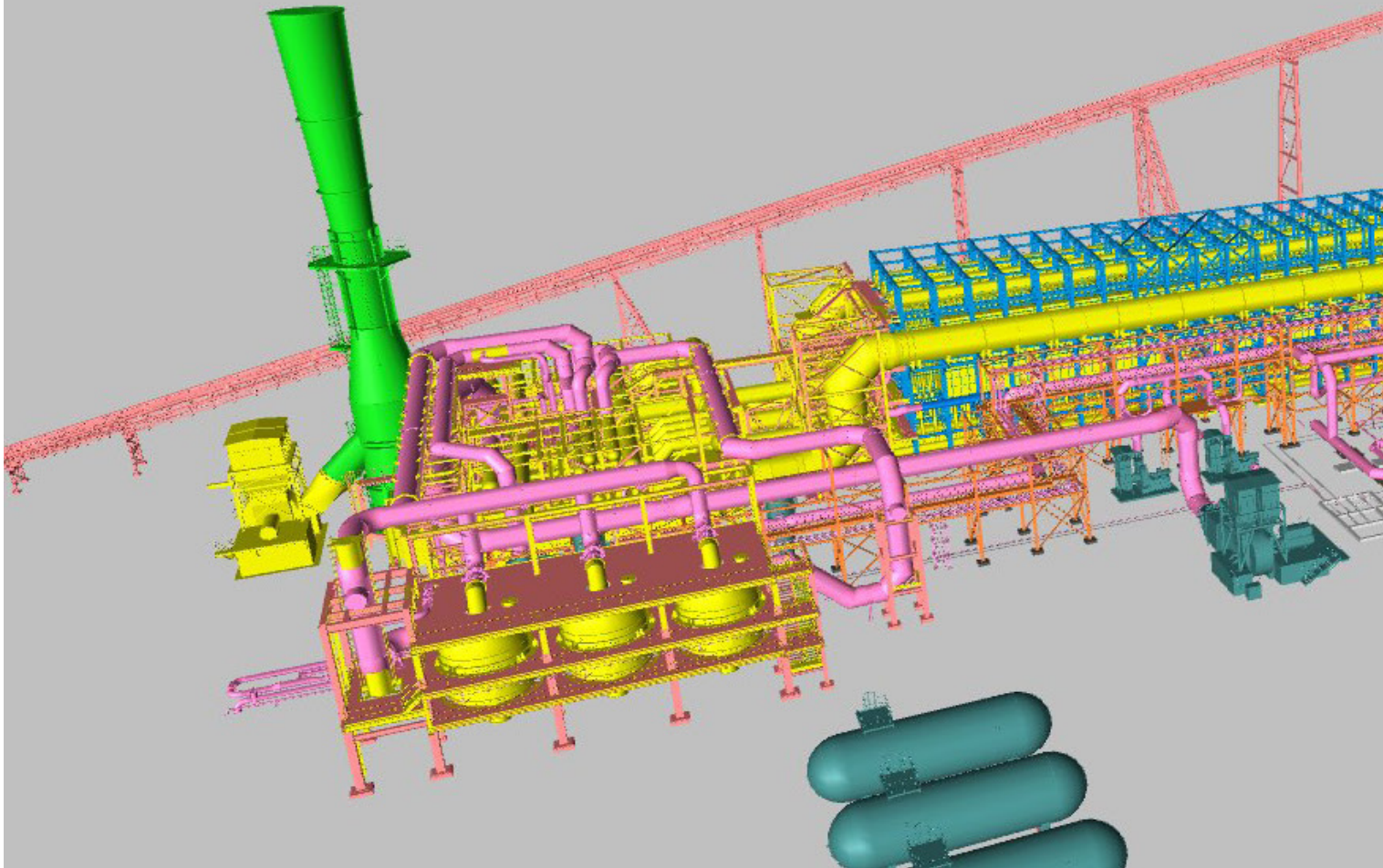


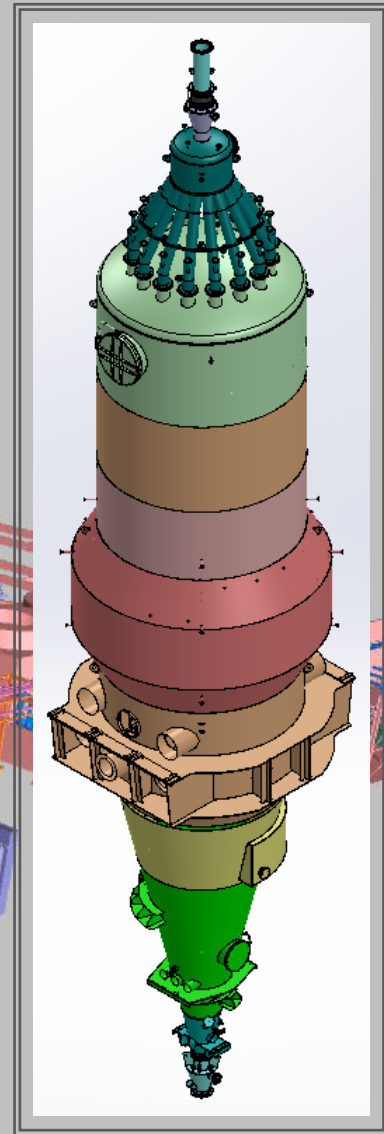
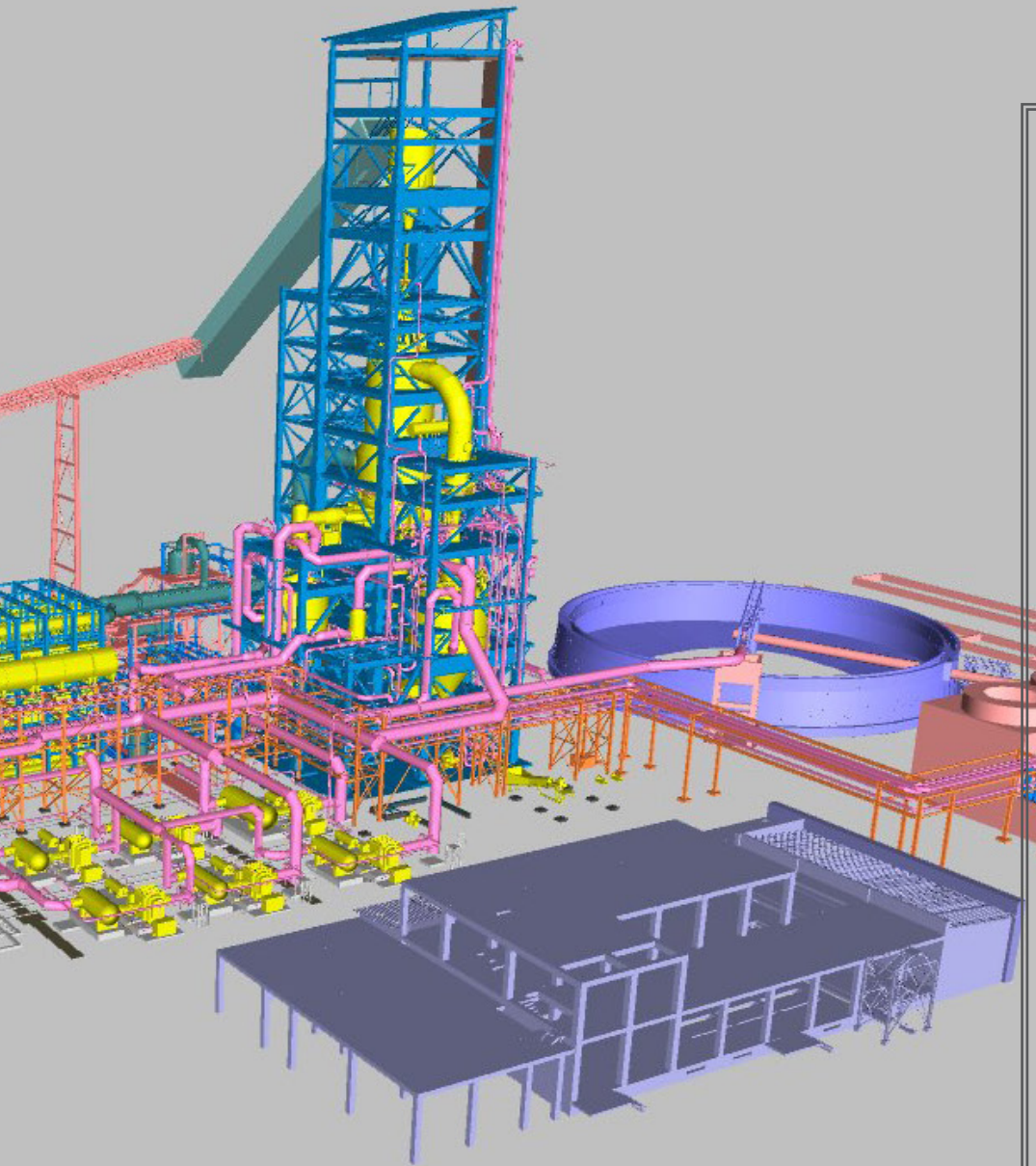






Fourteen Direct Reduced Iron (DRI) Projects in Operation





3D Modeling of Direct Reduction Project

## Major Activities

- ✧ Leading Iranian company in the field of EPC and EPCF contracts for iron and steel projects (since 2003)
- ✧ Automation and systems control
- ✧ Basic engineering and detailed engineering
- ✧ PDMS, PMS, SCADA
- ✧ Supply and purchase engineering
- ✧ Civil, equipment manufacturing, installation and operation
- ✧ Projects consulting and feasibility investigations
- ✧ Holding the MIDREX license in the field of direct reduced iron technology with an annual production capacity of 0.5 to 2.5 million tons of cold sponge iron, hot sponge iron and hot briquette (HBI) with series capacities of 400 and 600, mega module and super mega module plants



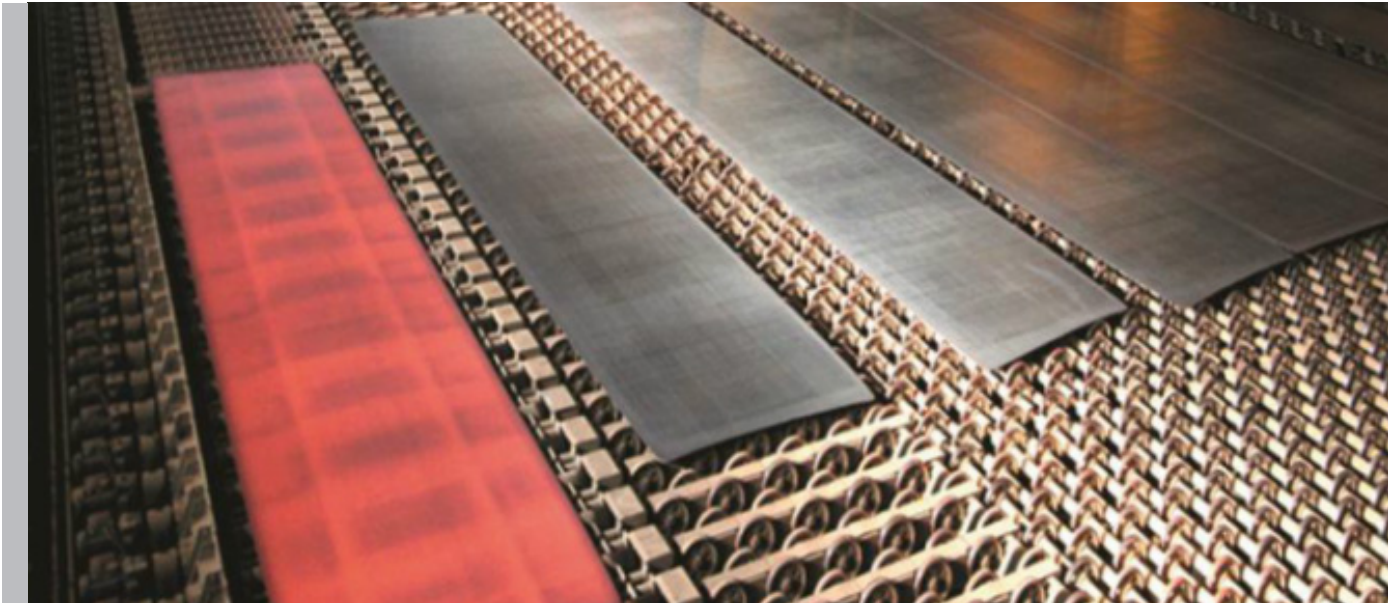
Pasargad Project ,Shiraz, Iran





Consultant in 3 Steel Complex Projects  
(Gol Gohar pelletizing plant, Oxin wide  
sheet plant, Khorasan Steel pelletizing  
and steelmaking plants)





## In Operation Projects

1. Zamzam 1 Direct Reduction Project with the capacity of 800,000 ton per year (Engineered by IRITEC, procured and executed by Khuzestan Steel (as client), cooperated in operation by MME (as holding company) which led to the formation of MMTE's primary core)
2. Zamzam 2 Direct Reduction project with the capacity of 960,000 ton per year
3. Hormozgan Engineering Project with the capacity of 825,000×2 ton per year
4. Gol Gohar Pelletizing project with the capacity of 5,000,000 ton per year (consulting project)
5. Oxin Wide Sheet project with the capacity of 1,050,000 ton per year (consulting project)
6. Chaharmahal Direct Reduction project with the capacity of 800,000 ton per year
7. Karachi Supervisory project with the capacity of 1,200,000 ton per year
8. Kaveh South Steel Direct Reduction project with the capacity of 928,000×2 ton per year
9. Saba Mega Module Direct Reduction project with the capacity of 1,500,000 ton per year
10. Gohar - Gol Gohar Mega Module project with the capacity of 1,760,000 ton per year
11. Jahan Foulad Sirjan No.1 Direct Reduction project with the capacity of 960,000 ton per year
12. Jahan Foulad Sirjan Steelmaking project with the capacity of 1,000,000 ton per year
13. Kowsar - Gol Gohar Mega Module project with the capacity of 1,850,000 ton per year
14. Khorasan Steel project, Steelmaking & Pelletizing (consulting project)
15. Bardsir project with the capacity of 960,000 ton per year
16. Pasargad Mega Module project with the capacity of 1,760,000 ton per year
17. Ardakan Steel Direct Reduction project with the capacity of 960,000 ton per year
18. Sabzevar project with the capacity of 800,000 ton per year

## Under Construction Projects

19. Bafgh Direct Reduction project with the capacity of 800,000 ton per year
20. Miyaneh Steel Steelmaking project with the capacity of 800,000 ton per year
21. Torbat Mega Module Direct Reduction project with the capacity of 1,850,000 ton per year
22. Zamzam 3 Mega Module project with the capacity of 1,760,000 ton per year
23. Gol Gohar Iron & Steel Development No.3 (Tooba) Mega Module Direct Reduction project with the capacity of 1,850,000 ton per year





- DRI Plant Mega Module
- DRI Plant Series 600
- Pelletizing Plant
- Steel Making Plant
- Milling Plant



A steelmaking plant under construction (Miyaneh Steel)

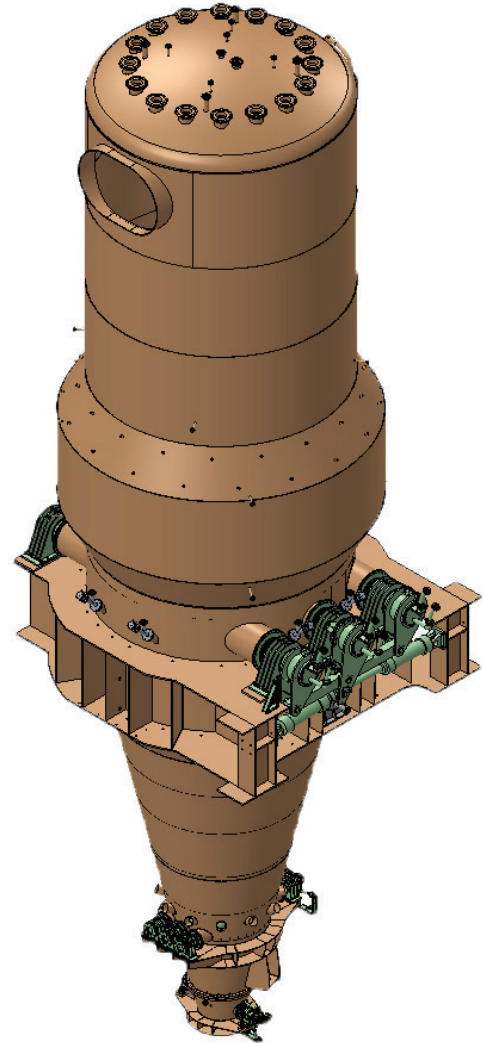


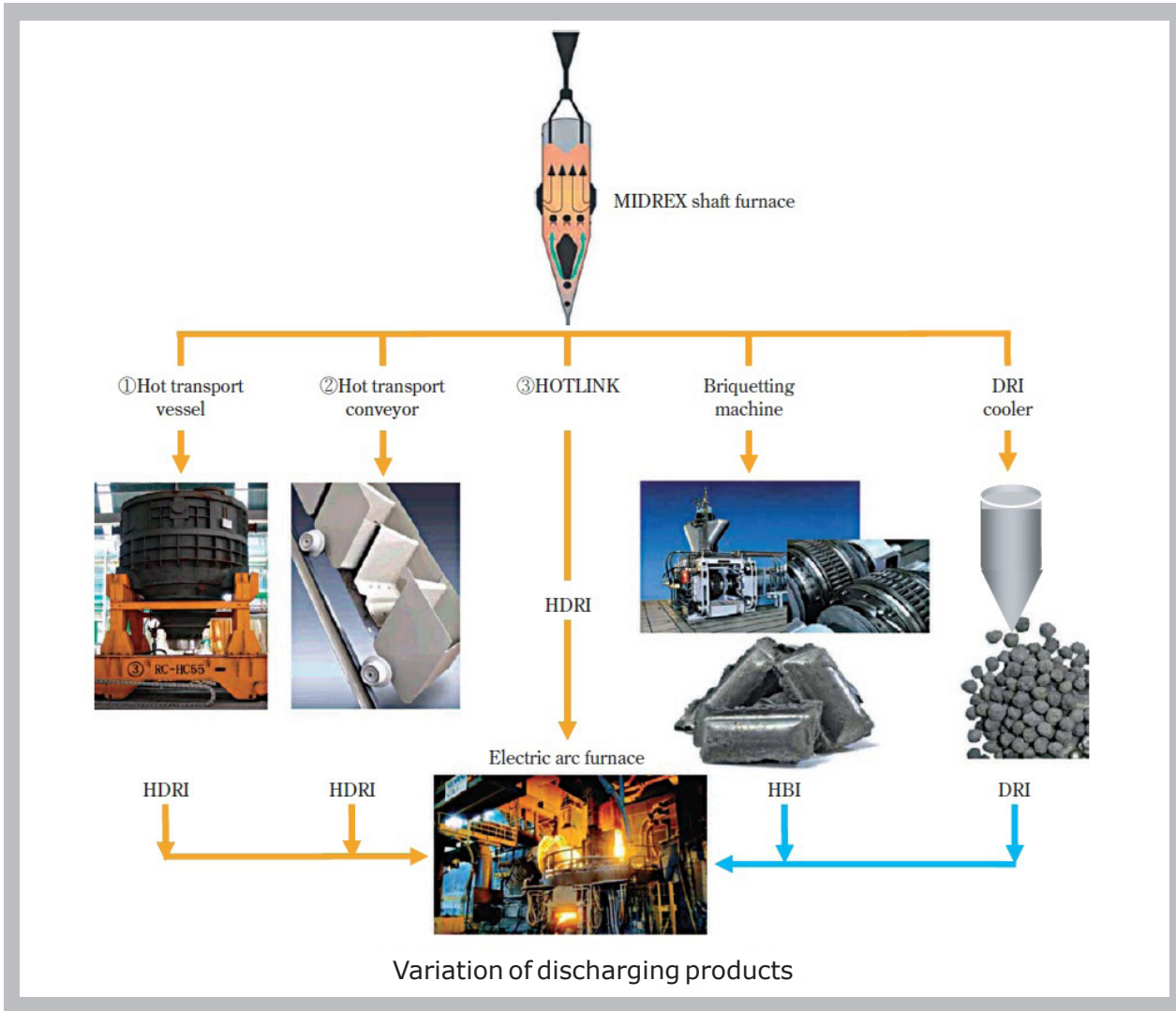


## MIDREX

Direct reduction of iron oxide is a process for the production of sponge iron which is carried out in pelletizing factories and steel industries. Midrex technology plays a leading role in the production of sponge iron in the world.

Specification	Shaft Furnace Dia.	Capacity (MTPY)	Product
400Series	5.15	0.5-0.8	CDRI
600Series	5.65	0.8-1.2	CDRI
Mega Module	6.65	1.2-2	CDRI/HDRI/HBI COMBO
super Mega Module	7.15	2-2.5	CDRI/HDRI/HBI COMBO





## Management Standards

In order to achieve the company's objectives, MMTE has taken action for establishment of the integrated management system and its continuous improvement based on ISO 9001:2015, ISO 14001:2015 and ISO 54001:2018.

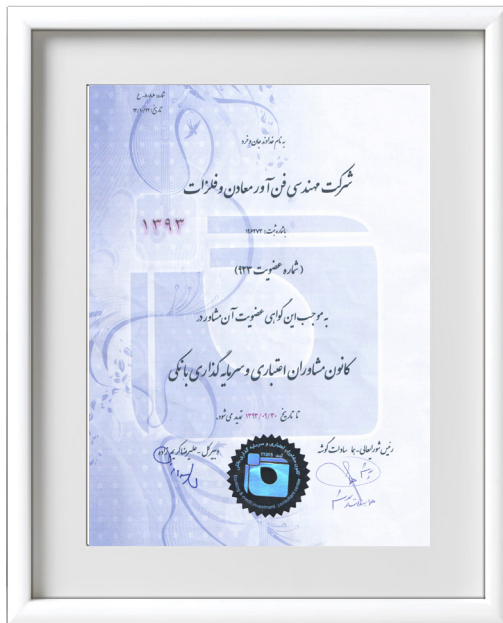


## Contractor Safety Competency

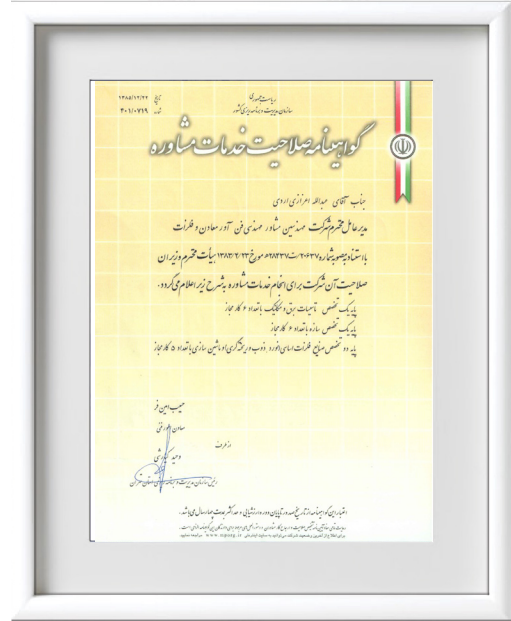
MMTE has succeeded to acquire the Contractor Safety Competency Certification from the Ministry of Cooperatives, Labour, and Social Welfare of Iran since 2017. It is hoped that the mentioned achievement will play a remarkable role in the direction of safer execution of the company's projects.



 Certificates

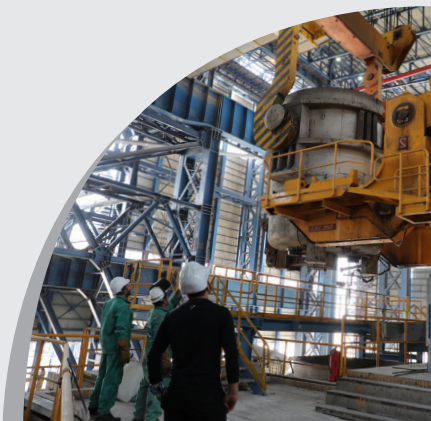
















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