



ZAMHARIR Co.

Liquified gases solutions LNG & ASU PLANTS

2025 PISHRUN ZAMHARIR ACEMAN



The 1st Zamharir Co. Factory 2024



ZAMHARIR GLOBAL

The technical and executive experience of this group began in 1963 with the Majlesi brand in the field of industrial refrigerators and freezers, and moved towards the production of advanced cooling equipment in 2009. Then, in 2013, Pishrun Zamharir Aceman Company was officially established to operate in the field of refrigeration. And since 2023, it has entered EPC projects management in Iran.

Currently, this company is the largest manufacturer of liquid oxygen, liquid nitrogen, liquid carbon dioxide tanks and refrigeration equipment in West Asia with the ability to design and produce according to international standards.



Manufacturing workshop



Cryogenic Department

Company & vision

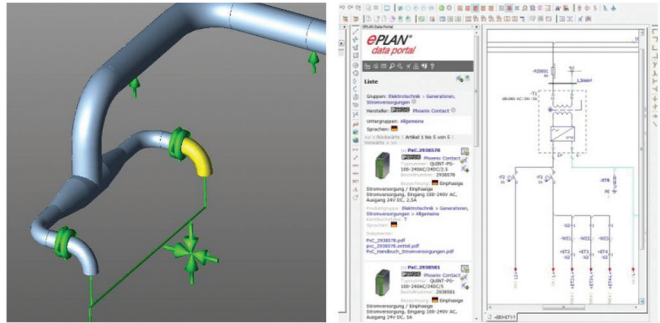
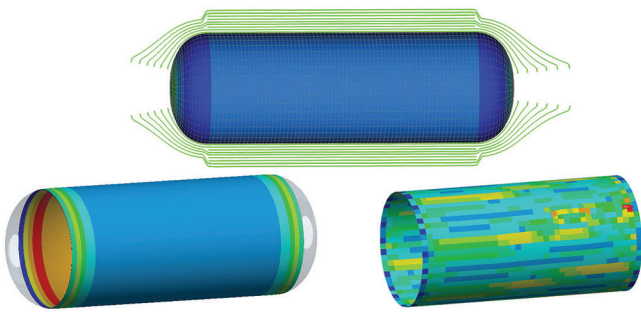
ZAMHARIR Co. is a knowledge-based company that designs and manufactures cryogenic tanks in accordance with international standards. The main purpose of producing these products is to provide oxygen to medical centers, fish farms, and industrial gases to steel plants, petrochemical plants, and refineries. Cryogenic tanks are used to store low-temperature liquids such as liquid Oxygen, liquid Nitrogen, liquid Argon, liquid CO₂, and LNG.

The missions of this industrial company are to satisfy customers through optimal design and production of tanks with the highest efficiency, increase productivity, create added value in production, provide warranty, and provide after-sales service.

This company was founded with the support of more than half a century of executive experience of its managers, with the aim of focusing on upgrading technology and increasing the productivity of industries in the field of designing and producing cryogenic tanks. And now by handling **EPC projects** and entering the engineering department, designing and building **ASU** and **LNG** plants in Iran, it can implement large projects in the field of liquefaction, storage, transportation and regasification with its engineering tools.

INNOVATION EXTENSION

The product development process at Zamharir is driven by a focus on the customer and the needs of employers and improving the buying and selling experience. This approach can be seen not only in the smartening of each of Zamharir's many subgroups, but also in the way it launches a new product line, each of which requires specialized technical knowledge.

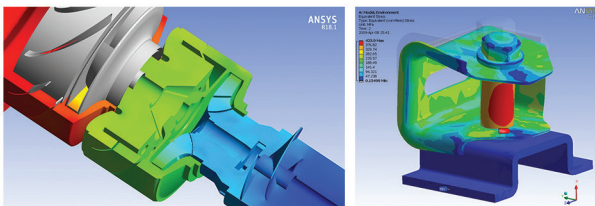


CRYOGENIC DEPARTMENT

In this section, cryogenic tanks and circuits are designed and construction drawings, construction instructions, methods and inspection instructions are communicated to the production unit. In this unit, various software such as **CEASAR**, **PVELITE**, **CATIA**, **ANSYS** and internal software using **EXCEL** are used based on the subject and design standard.

Electrical, Instrumental & Automation Department

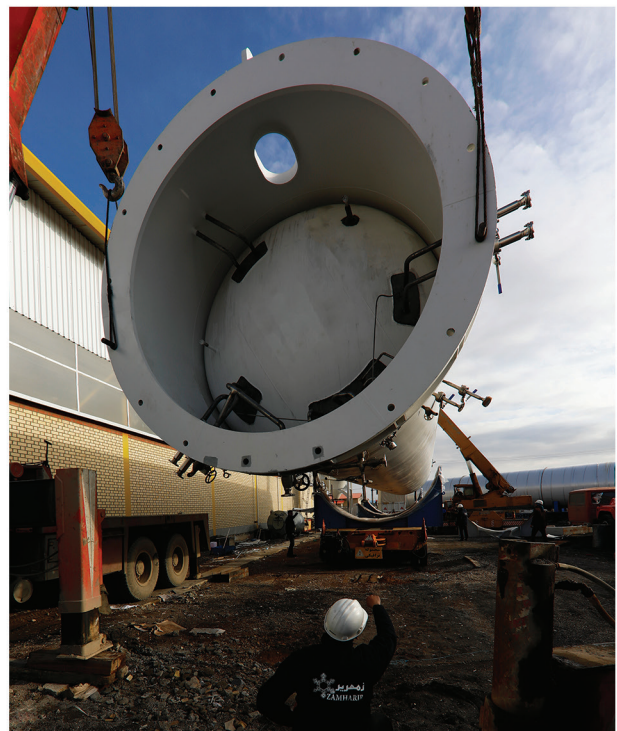
In this section, based on information and data from process and mechanical sections, the design of drives, panels, power and control circuits, electrical and electronic boards, panels, sensor switches, indicators and controls, and the safety equipment required for the device are designed and implemented. The software used is also based on the electrical system and the required precision instruments, including **Electrical CAD**, **Eplan**, **Digsi**, **WinCC**, and **Labview** software.




MECHANICAL DEPARTMENT

In this section, based on the information and output data of the process section, mechanical design of equipment is carried out. As a result of the activities of engineers and designers in the mechanical section and interaction with the electrical, instrumentation and process sections, executive drawings and installation and commissioning instructions are compiled.

In this regard, this company benefits from the services of mechanical and metallurgical engineers. The main software used in this section includes **Caesar II**, **Pvelite**, **Visual Nastran**, **PDMS**, **Mechanical**, **AutoCAD**, **ABAQUS**, **ANSYS**, **Solidworks** and **Catia**.






Best Quality



Unique Design



Factory
10,000m²



LNG Development

R&D Department

This group, using the latest engineering software and the country's leading engineers, takes steps to design and build High-Tech storage facilities in compliance with the latest European standards in West Asia. In this section, the design of storage facilities and cryogenic circuits, construction plans and instructions, inspection methods and instructions are communicated to the production unit. And based on the type of projects and customer needs, engineering activities are carried out.

knowledge and experience

One of our most important strategies is to implement quality management systems to improve customer satisfaction. In our view, production is the beginning of a movement, meeting customer needs and developing and improving product quality is our duty. We believe that standards establish minimum requirements and to achieve customer satisfaction, we must go beyond the standard.



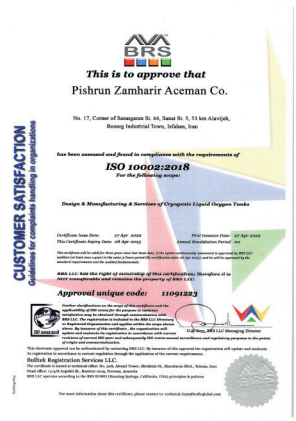
Providing new solutions
to customers and creating
lasting values with
the power of technology





CERTIFICATION

As a national high-tech enterprise, ZAMHARIR has been committed to research, innovation and development in the field of cryogenic industry and successfully created a R&D team that is experienced, highly innovative and has a pioneering spirit. It has passed ISO9001, ISO14001, ISO45001 and other system certifications, as well as ASME "NB" and CE/PED of Europe and other international product system certifications. All these certifications ensure that we can continue to deliver high quality products to our customers





MILESTONES

2025 Implementation of LNG and ASU plants in IRAN

2023 EPC project management in IRAN

2022 The first phase of ZAMHARIR factory with an area of 10,000 m²


2020 Award for the best technologist in the corona pandemic

2019 Starting exports to regional countries

2018 Contract with SIAD Macchine Impianti

2015 Contract with TEHRAN OIL REFINERY

2013 Establishment of the company

A photograph showing a perspective view of several parallel, large-diameter pipes. The pipes are wrapped in a light-colored, reflective insulation. They are supported by a dark metal structure. The background is a blurred industrial facility with tall chimneys or towers, set against a warm, golden sunset sky. The overall color palette is dominated by blues, greys, and warm oranges from the sunset.

VACUUM
INSULATED
PIPE





RIR

M27

M27

BISANTRAILER.com
+905438381377

GADERI LOGISTIK
09133349576
09131363187



CRYOGENIC TANKS

SCALE

1m³ ~ 20,000m³

Large, Medium and Small scale Vacuum insulated and Flat bottom Cryogenic tanks, In the form of storage and mobile tanks (ISO Tank, Semitrailer)

SPEC

Design standards, ISIRI 12474-1, ISIRI 12474-2, BS EN 13458-1, BS EN 13458-2, ASME Section VIII (Division 1, Division 2, and Division 3)

APPLICATION FIELDS

Metallurgy, steel industry, food industry, healthcare, plastics industry, petrochemicals, oil and gas refinery, automotive, aerospace, aquaculture, glass, welding, etc.





AIR SEPARATION UNIT

SCALE

80Nm³/h ~ 20,000Nm³/h GOX

Large, Medium and Small Scale Air Separation Unit, Liquid Plant, Liquefaction Plant, High Purity Nitrogen Generator, Rich

APPLICATION FIELDS

Metallurgy, steel industry, food industry, healthcare, plastics industry, petrochemicals, oil and gas refinery, automotive, aerospace, aquaculture, glass, welding, etc.



NATURAL GAS TREATMENT & LIQUEFACTION

In its future vision, ZAMHARIR Co. intends to operate in the field of LNG plants (liquefaction, regasification, storage and transportation) for clean fuel and peakshaving issues, relying on local knowledge and technology, with world-class standards and adopting new technologies. This company will have the ability to implement small and mid-scale LNG plants in Iran as EPC.

Liquefied natural gas is the cleanest fossil fuel and is economically and environmentally preferable in many countries to liquid fuels such as diesel, fuel oil and fuel oil. This product is much safer than compressed natural gas (CNG) due to its storage conditions (low operating pressure).





200m³ Cryogenic Vacuum insulated tank

QUALITY MANAGEMENT SYSTEMS

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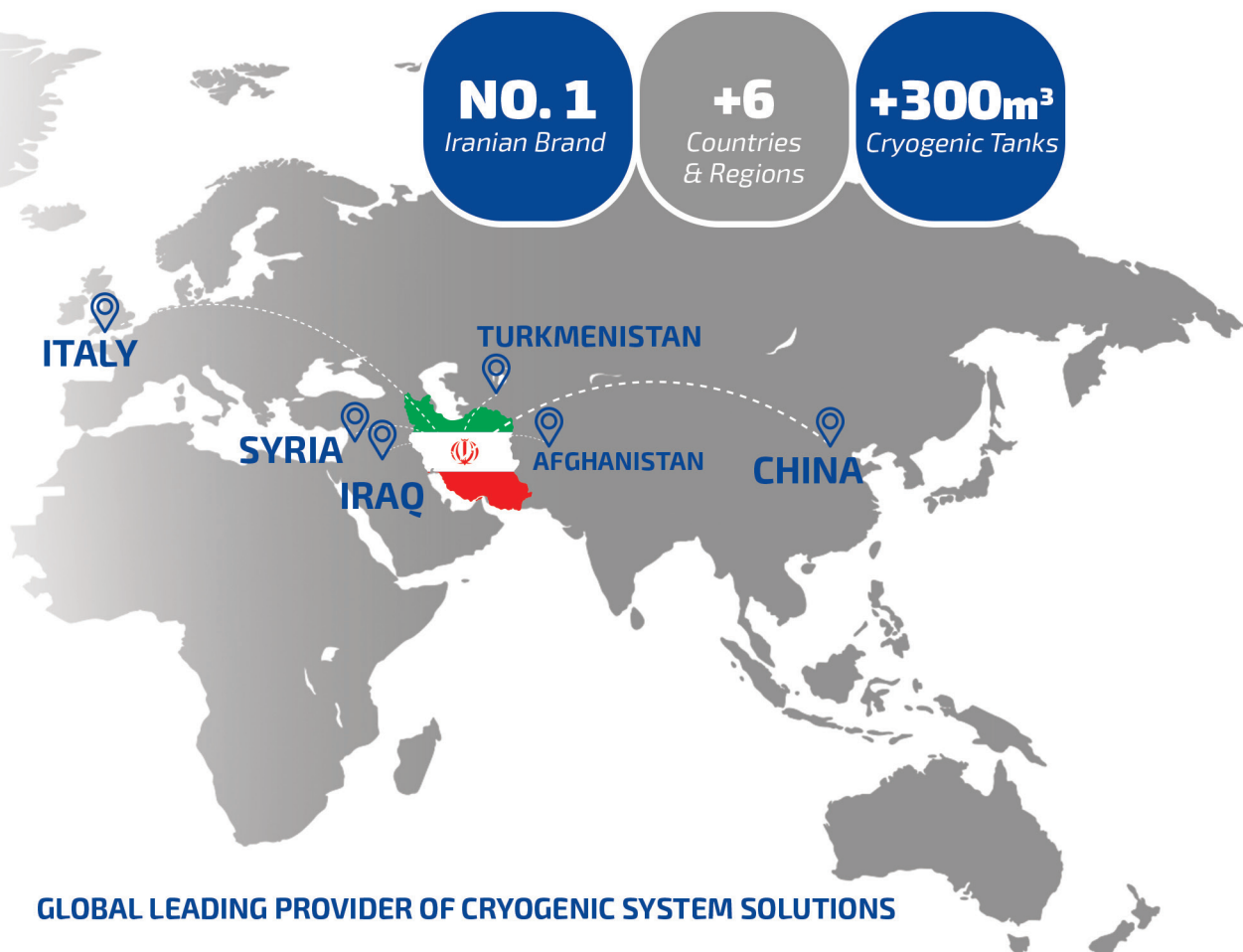
ZAMHARIR implements various types of performance, analysis and process tests in its quality control unit and, in line with the standardization process, considers it mandatory to test items such as: material analysis, radiographic testing, air and vacuum levels, perlite charging, thickness measurement, etc. During the manufacturing process, all stages must be controlled so that the product complies with today's standards. The importance of these tests is that these warehouses, which are about 40 years old, must be functional in various centers.

EXCELLENT SERVICE

ZAMHARIR has exported to many countries in the Asian region and has established a perfect after-sales service system to protect the rights and interests of customers and ensure the stable and long-term performance of the machine. After-sales service, as one of the most important and effective elements of industry and trade, can play an important role in the development of any company. Therefore, creating a culture of providing the required services and products and achieving customer satisfaction is among the measures included in the work order of this group for customer management.



We will provide excellent services to our customers and cover the entire project life cycle, from initial design, production, inspection to after-sales service.



GLOBAL LEADING PROVIDER OF CRYOGENIC SYSTEM SOLUTIONS

SUPPLY AND DISTRIBUTION OF CRYOGENIC FLUIDS

The Cryogenic Liquids Supply and Sales Department of ZAMHARIR, with its extensive distribution network in Iran and the region and its liquid transportation fleet, is ready to serve medical centers, hospitals, industries, etc. This department includes the sale of liquid **Oxygen**, liquid **Nitrogen**, liquid **Argon**, and liquid **CO₂**.





Pioneer
in technology



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