

# Chemicals and Laboratory Industry

EXHIBIRAN | 9-12  
International | November  
Fairground | 2022



Laboratory Equipment  
(Industrial, Clinical, Educational)



Industrial Chemicals



Laboratory Services



Laboratory Chemicals



Industrial &  
Process Equipment



Pharmaceutical Chemicals



[www.CLlexpo.ir](http://www.CLlexpo.ir)

Organized by:



## Introduction

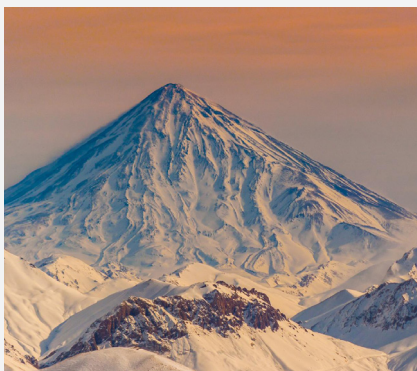
Iran is the second largest economy in the Middle East and North Africa (MENA) region with an estimated Gross Domestic Product (GDP) in 2016 of US\$412.2 billion. It also has the second largest population of the region with an estimated 79.9 million people in 2015

As one of the rapid developing countries in MENA Region, the country possesses vast variety of rich natural resources and industrial infrastructure whilst benefiting of experienced manpower which all collectively have played an effective role in uplifting country's position in Asia. Iran ranks second in the world in natural gas reserves and third in proven crude oil reserves.

Iran has a large and numerous manufacturing industries in the fields of automotive, construction materials, food and agricultural goods, pharmaceuticals, information technology, power, chemicals and petrochemicals with an estimated population of 85 million people

The Fifth International Exhibition on Chemical and Laboratory Industry, "CLI EXPO 2022" will be held in cooperation with national and international NGOs and industrial syndicates in 9-12 November 2022 on Tehran and will be a rich platform to know and learn the Iranian chemical and laboratory industry market.

The exhibition will bring all professionals together from production facilities, trade men, consulting engineers, contractors and technical people to showcase the latest achievements in the range of product groups. The organizer of CLI EXPO 2022 cordially invites you to participate and contribute effectively in the Iran's only technical exhibition on chemical and laboratory industry.



## Iran Chemical Industry at a Glance

The Ministry of Commerce and Industry of Iran has announced 322 investment opportunities in frame of 17 major industrial scopes as below table:

No	Industrial Scope	No. of opportunities
1	Medical equipment	40
2	Non-ferrous products	30
3	Chemical industry	29
4	Ferrous products	26
5	Industrial machinery	25
6	Textile industry	23
7	Polymer industry	22
8	Electronics	21
9	Automotive industry	20
10	Petrochemical and Refinery	19
11	Cellulose industry	14
12	Pharmaceuticals	12
13	Commerce	12
14	Food industry	9
15	Home appliances	8
16	Oil Exploration	6
17	Oil production	4

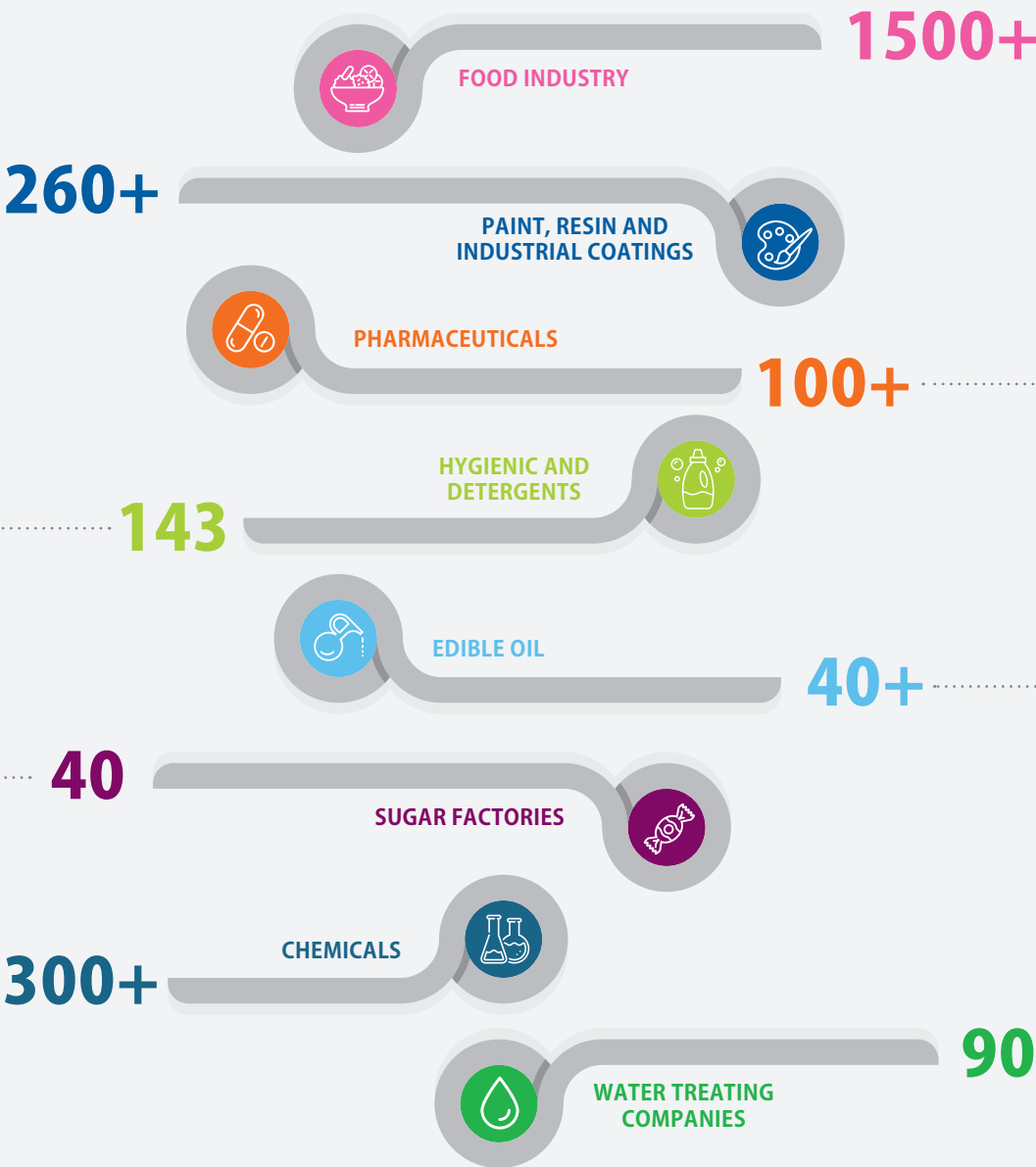
As shown, chemical industry ranks 3<sup>rd</sup> in terms of number of investment opportunities. Also during the same year, amongst 29 industrial scopes, production of chemicals ranked the first in terms of amount of investment (domestic)

Past years, amount of approved foreign investment in Iran's chemical industry reached to ~280 million USD

NUMBER OF:












NUMBER OF PRODUCERS:  
(selected products)







### ANNUAL DOMESTIC PRODUCTION: (selected products)

	CHEMICALS: ~ 45 MMT
	PETROCHEMICALS: 6+ MMT
	EDIBLE OIL: 1,362MMT
	MEDICINE: 38 Billion unit
	DETERGENT POWDER: 685MMT
	AUTO TIRE: 224MMT
	INDUSTRIAL OIL: 446MMT
	TILE AND CERAMIC: 306+million SQM
	GLASS MADE PRODUCTS: 1.1+ MMT


### ANNUAL IMPORTS:

	CHEMICAL RAW MATERIALS: ~1.4 Billion USD
	CHEMICAL PRODUCTS: ~ 600 Million USD

(Source: Ministry of Commerce and Trade)

### FACTS AND FIGURES OF IRAN LABORATORY INDUSTRY:

Number of:

	CALIBRATION LABORATORIES: 145+
	ISIRI PARTNER LABORATORIES: 2450
	MEDICAL LABORATORIES: 5000+
	ENVIRONMENTAL LABORATORIES: 120
	NANO TECHNOLOGY LABORATORIES: 280
	FOOD & DRUG ORGANIZATION PARTNER LABORATORIES: 300
	NATIONAL LABORATORY NETWORK MEMBERS: 480

## Product Groups

### 1- Chemicals and Petrochemicals

- Acids, Alcohols and Glycols
- Agrochemicals and Raw Materials
- Biocides Catalysts
- Bulk Drugs & Formulations
- Ceramic, Glass, Enameled and Cement Chemicals
- Chemical Intermediates
- Construction Chemicals and Insulation Raw Materials
- Cosmetics and Detergents Raw Materials
- Electrochemicals
- Emulsifiers and Stabilizers
- Excipients & Additives
- Industrial Oils and Gases
- Industrial Sealants
- Inorganic & Organic Chemicals
- Odorant Additives
- Oleo Chemicals
- Organic Intermediates
- Paint, Ink and Adhesive Raw Materials
- Pharmaceutical Raw Materials, Additives and Intermediates
- Plant Raw Materials
- Specialty Chemicals Stabilizers
- Surface Treatment Chemicals Surfactants
- Water Treatment & Wastewater Treatment Chemicals
- Waxes and Esters

### 2- Process Industry

- Process Technology
- Machinery & Equipment
- Filtration & Separation Systems
- Process Plant Design Services
- Batching Systems / Equipment
- Condensers
- Conveyors and Elevators
- Thermal Processes equipment
- Machinery and Equipment for Chemical Industry
- Manufacture and Assembly of Plants for the Chemical Ind.
- Mechanical Process Mixers
- Packaging and Storage Technologies
- Powder Mixing and Pulverizing Plants
- Pressure Vessels and Tanks
- Process Machines
- Production of Chemical Reagents, High-Purity Substances and Catalysts
- Reactors
- Tubes & Fittings, Test kits & procedures

### 3- Laboratory Equipment

- Accreditation of Laboratories and Expertise Tests
- Chemical Substances
- Cleaning and Disinfection Agents
- Electrochemical Measurements Devices

- Gas Analyzers
- Laboratory Analysis Kits, Equipment and Instruments
- Laboratory Filtration Systems
- Laboratory Furniture
- Laboratory Plastics & Glass Materials
- Laboratory Software
- Sample Preparation Equipment
- State Standard Reference Samples
- Thermometers and Hygrometers

#### 4- Test & Measurement Equipment

- Process Automation Systems
- Sensors & Controllers
- Testing & Measurement Technology
- Instrumentation & Process Control
- Physical Measurement Systems and Equipment
- Calibration

#### 5- Nanotechnology

- Nanoparticles
- Nanowires
- Nanofibres and Nanotubes
- Surface Nanostructures
- Three-Dimensional Nanostructures
- Functional Nano-materials
- Construction Nano-materials
- Nano-capsules
- Semi-Conductor Nanotechnology
- Nanolithography and Nano-Printing

- Nano-Magnets
- Molecular Machines
- Sub-Cell Sensors and Nanotracers
- Biomimetic Structures
- Biomembranes
- Genetic Modifiers
- Molecular Manipulators
- Production Processes and Devices for Nanotechnology

#### 6- Safety and Industrial Hygienic Equipment

- Chemical Safety
- Fire Protection, Equipment, Appliances and Fire Fighting Materials
- Industrial Safety
- Laboratory Clothing and Individual Protective Gear
- Ventilations Systems

#### 7- Environmental Services

- Environmental Consultancy Services
- Environmental simulation
- Water Management Systems

#### 8- Information and Documentation Systems

- Equipment for Documenting, Registering, Securing and Presenting Evidence
- IT Systems Supporting Identification Processes

## Why exhibit?



Forge new partnerships and collaborations



Showcase your recent innovations, products and services



Elevate your company's brand



Gain direct access to decisionmakers and customers



Share your knowledge and expertise



Engage at side events and activities

## Post Show Report CLI EXPO 2021

The Fourth International Exhibition on Chemical and Laboratory Industry was held on November 9-12, 2019 in Exhibiran International Fairground in Tehran – Iran in an exhibition area of close to 7000sqm.

This event is Iran's first and solo specialized exhibition in the field of chemical and laboratory industry which is being held with cooperation of Ministry of Commerce and Trade, Iran Small Industries & Industrial Parks Organization (ISIPO), National Innovation and Prosperity Fund and all related syndicates and associations.

This 4-day event hosted 112 companies including producers and suppliers of chemical materials as well as manufacturers and traders of laboratory equipment.

This event was visited by 3220 registered visitor who came across different sectors of industries including chemical, pharmaceutical, food and beverage, cellulose, coating, medical, universities and research centers and... Another highlight of this event, was governmental subsidies granted for knowledge-based companies and local producers.

To ease the visit and exhibit the event, the organizing committee arranged free shuttle service from different points of Tehran, on twice a daily basis.

Iran, annually imports over 2 Billion USD of chemical raw materials and its production capacity has reached to 45 MMT, according to the latest updates released by Ministry of Industry, Mine and Trade of the country.

This event took place in Exhibiran International Fairground which is the most newly-built exhibition center in Iran. This modern facility includes 25000sqm of roofed area, a parking lot for 11000 cars, Metro station connecting the complex to the city's main network of transportation and an administrative space with 24000 sqm.

The Fifth International Exhibition on Chemical and Laboratory (CLI EXPO) will be held on 9-12 November 2022 in Exhibiran International Fairground. For more information, please consult event website at [www.cliexpo.ir](http://www.cliexpo.ir) or feel free to write [info@cliexpo.ir](mailto:info@cliexpo.ir)





## **The Venue: Shahr e Aftab** (Exhibiran International complex)

Shahr-e-Aftab (Exhibiran International) is Iran's latest and biggest exhibition center. Conveniently located between Tehran City and the international airport with access to several highways and public transportation connections, it offers 50,000 sqm of exhibit space in 16 halls with the latest technical equipment.

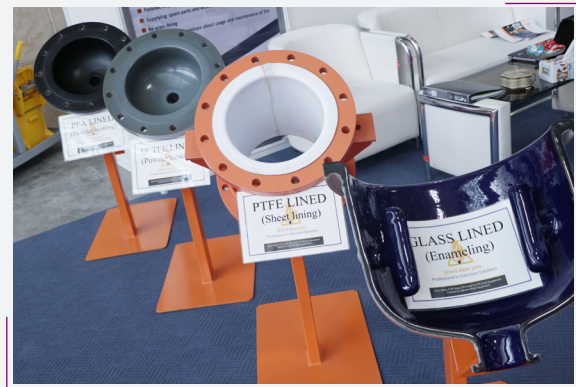
The central location also allows visitors from neighboring states such as Iraq, Afghanistan, Turkmenistan and Tajikistan, which have traditionally maintained close commercial ties with Iran, to visit the exhibition.



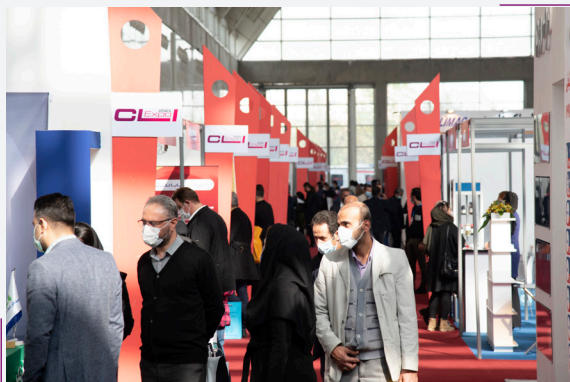
Exhibiran is the host of many national and international events held by either domestic or overseas organizers e.g. Messe Stuttgart, Messe Dusseldorf and ...

The main features of this unique facility are:

1. The permanent roofed exhibition constructions including 3 halls with a total area of 25000 square meters.
2. The Nations Hall with more than 7000 square meter area.
3. The administrative space with 24000 square meters in two floors.
4. Several parking lots of the exhibition area along with the extra parking lots in Imam Khomeini Holy shrine with the total capacity of 11,000 cars.
5. Shahrvand Shopping center
6. Metro station connecting the complex to the city's main network of transportation









# About IRAN

*Persia*  
VISIT IRAN



Iran also known as Persia, officially the Islamic Republic of Iran, is a country in Western Asia. It is bordered on the north by Armenia, Azerbaijan and Turkmenistan, with Kazakhstan and Russia across the Caspian Sea; on the east by Afghanistan and Pakistan; on the south by the Persian Gulf and the Gulf of Oman; on the west by Iraq; and on the northwest by Turkey.

Comprising a land area of 1,648,195 km<sup>2</sup> (636,372 sq mi), Iran is the second-largest nation in the Middle East and the 18th-largest in the world; with over 77 million inhabitants, Iran is the world's 17th most populous nation. It is the only country that has both a Caspian Sea and Indian Ocean coastline. Its area roughly equals that of the United Kingdom, France, Spain, and Germany combined, or somewhat more than the US state of Alaska.

The name Iran is a cognate of Aryan, and means "Land of the Aryans".





## ARTS & LITERATURE

# IRAN

Iran is home to one of the richest artistic traditions in world history and encompasses many disciplines, including architecture, painting, weaving, pottery, calligraphy, metalworking and stonemasonry.

Carpet-weaving is one of the most distinguished manifestations of Persian culture and art, and dates back to ancient Persia.

Persians were among the first to use mathematics, geometry, and astronomy, architecture and also have extraordinary skills in making massive domes which can be seen frequently in the structure of bazaars and mosques.

This greatly inspired the architecture of Iran's neighbors as well. Besides being home to a large number of art houses and galleries, the country also holds one of the largest and most valuable jewel collections in the world.

Iran ranks seventh among countries in the world with the most archeological architectural ruins and attractions from antiquity as recognized by UNESCO. Fifteen of UNESCO's World Heritage Sites are creations of Iranian architecture.

Poetry is used in many Persian classical works, whether from literature, science, or metaphysics. Persian literature has been considered by such thinkers as Goethe as one of the four main bodies of world literature. The Persian language has produced a number of famous poets; however, only a few poets as Rumi and Omar Khayyám have surfaced among western popular readership.





# IRAN

## EDUCATION & SCIENCE



Iran has increased its publication output nearly tenfold from 1996 through 2004, and has been ranked first in terms of output growth rate followed by China.

According to SCImago, Iran could rank fourth in the world in terms of research output by 2018.

In 2009, a SUSE Linux-based HPC system made by the Aerospace Research Institute of Iran (ARI) was launched with 32 cores and now runs 96 cores. Its performance was pegged at 192 GFLOPS. Sorena 2 Robot, which was designed by engineers at University of Tehran, was unveiled in 2010. The Institute of Electrical and Electronics Engineers (IEEE) has placed the name of Surena among the five prominent robots of the world after analyzing its performance.

In the biomedical sciences, Iran's Institute of Biochemistry and Biophysics is a UNESCO chair in biology. In late 2006, Iranian scientists successfully cloned a sheep by somatic cell nuclear transfer, at the Rouyan research Centre in Tehran. According to a study by David Morrison and Ali Khademhosseini (Harvard-MIT and Cambridge), stem cell research in Iran is amongst the top 10 in the world. Iran ranks 7th the world in nanotechnologies.

Iran placed its domestically built satellite Omid into orbit on 2 February 2009, through Safir rocket, becoming the ninth country in the world capable of both producing a satellite and sending it into space from a domestically made launcher.

# ENERGY

Iran has the third largest oil reserves and the world's largest natural gas reserves in the world. Iran is one of the leading members of OPEC (Organization of Petroleum Exporting Countries) and the Organization of Gas Exporting Countries (GECF).

Natural gas and oil consumption both account for about half of Iran's domestic energy consumption. With its heavy dependence on oil and gas revenues Iran continues to explore for new sources of natural gas and oil.

Iran has become self-sufficient in designing, building and operating dams and power plants and it has won a good number of international bids in competition with foreign firms.

Power generation capacity of Iranian thermal power plants reached 173 terawatt hours in 2007, accounting for 17.9 percent of power production in the Middle East and African region. As a further drive toward diversification of energy sources, Iran has established wind farms in several areas.

In 2010, the Iranian government announced

plans to build 2,000MW of renewable energy capacity between 2010-2015. As of 2010, Iran had 8,500MW of hydroelectric capacity and 130MW of wind energy capacity. As at 2010, private companies had signed contracts to build more than 600MW of biomass systems and 500MW of new wind energy projects.

Iran's unique geographical position means 90% of the country has enough sun to generate solar power 300 days a year. Iran has 520 watts per hour per square meter of solar radiation every day. Other sources give an average of 2,200 kilowatt-hour solar radiation per square meter. Energy generated by solar power reached 53 MW in 2005 and 67 MW in 2011.

Iran has the potential to generate 20 to 30 GW of wind energy. That is half of the total energy consumption needs of the country. As at 2012 Iran had 163 wind turbines with an installed capacity of 92470 kWh.

Iran has the potential to become the 9th largest geothermal energy producer.





# INTERNATIONAL RANKINGS of IRAN



Name	Rank	Out of	Source
Oldest countries on earth	1	World	Wikipedia
Science & Technology Growth Rate	1	World	Science-Metrix Report
Sovereign jewels collection	1	World	Iranian Crown Jewels
Hottest Places on Planet Earth	1	World	NASA
Number of Natural Gas Vehicles by Country	1	World	Worldwide NGV Statistics
Total hydrocarbon reserves	2	World	Oil & Gas Journal
Proven natural gas reserves	2	209	World Factbook
Proven oil reserves	3	97	World Factbook
World's largest universities by enrollment	3	World	Wikipedia
of female employment in industry	5	130	World Bank
% Primary Energy Production	6	World	International Energy Agency
Book titles published per year	7	World	United Nations
Iron production	8	World	US Geological Survey
Number of Internet Users	11	195	Internet World Stats
Telephone Lines in Use	12	100	World Factbook
World heritage sites	12	239	United Nations
Number of daily newspapers & periodicals	14	124	United Nations
Number of book titles published in applied sciences	16	99	United Nations
Steel production	16	World	World Steel Association
Aluminum production	17	World	Wikipedia
GDP (PPP)	18	193	World Bank



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