



IRAN



INDONESIA

**Delegation to Indonesia**

29 Aug. 2017

**A Brief Description of Iranian Nano technology  
Companies Participated in  
Iran – Indonesia  
Business Matchmaking**



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# Iran Nanotechnology Initiative Council (INIC)

Today, Iranian scientists and researchers are actively involved with advanced technology researches in various domains. The fact that Iran is currently considered as one of the countries with the highest rate of scientific growth worldwide, reveals the great value of science and technology to Iranian society.

Iran has recognized the significance of nanotechnology like other pioneering countries and started its activities in line with development of the technology. In this regard and as first step, a study committee for nanotechnology in Iran began its activities in 2001 and finally Iran Nanotechnology Initiative Council (INIC) was established in the country in 2003.

The INIC is tasked with determining the general policies for the development of nanotechnology in the country and pursuing the case with implementation of the policies.

Iran Nanotechnology Initiative Council is seeking to pave the ground for activity of the private sector and production of wealth within the society through adopting outlook, providing facilities, creating market and removing the existing problems.

INIC tasks are as follows:

- Approving goals, strategies, macro-scale policies and national initiatives for development of the nanotechnology in the country.
- Description of the general tasks for governmental bodies and determination of missions for each sector and make coordination among them within the framework of a long term national plan.
- Supreme supervision in realization of goals and programs.

**Your participation in this business matching will be our pleasure, and it is an honor to be given the privilege to welcome you as a possible future cooperation partner.**

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**1**

**Textile**

# Tehran Zarnakh



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## • About Company:

Tehran ZarNakh (TZN) company is the only producer of Polyamide 6/6,6 POY and one of the leading manufacturers of polyester POY yarn in Iran. The company's particular feature is the ability to produce antibacterial polyamide yarn (BACTEX) which is used in many applications. TZN with production capacity of 8000 -50000 tons a year is leadership in use of nanotechnology between Iranian textile manufacturers.

## • Certificates:

- Japan & UK IGC Labs
- Microbiology Laboratory of Tehran University,
- Ministry of Health and Medical Education and Entrepreneurship and Technology Company of Iran (KEFA)

## Products

BACTEX technology lasts the lifetime of the material. It will never wash out or breakdown because the filaments are produced through the melt-spinning process and contain mineral nanoparticles with anti-microbial ability.



## Products

Our products are desired and required by vast spectrum of research and Industry field including:

**PlasmaTex:** Plasma Treater machine For Textile Industries

**PlasmaPlast:** Plasma Treater machine For Packaging Industries

**PlasmaFP:** Plasma Treater For Food Industry

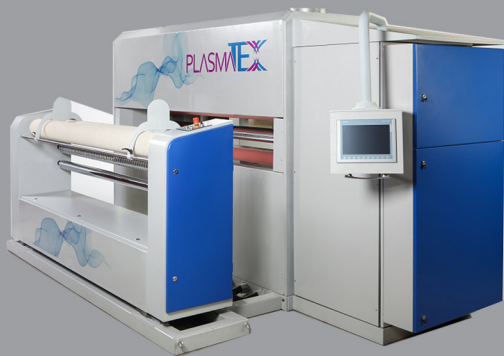
**Gas Chromatograph**

**Ultrasonic Homogenizer**

**Magnetron Sputter coater**

**Particle Size Analyzer:** Dynamic Light Scattering (DLS)

And many other laboratory instrument and industrial machines.



## Advanced Equipment Engineering Company (ADEECO)



**Taher Mamipoor, CEO**

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### • About Company:

Advanced Equipment Engineering Company (Adeeco) is a knowledge-based company that started its activities as the only national brand of Iranian advanced laboratory equipment, since 2012. Relying on Adeeco team of experts, strong partnership with other Iranian knowledge-based companies and academic faculties; Adeeco is proud to manufacturing advanced laboratory equipment and industrial hi-tech machines and also provide consulting services, sales and after-sales services of laboratory and industrial instruments and technologies for advanced various field such as nanotechnology, biotechnology, textile, chemical and etc.



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# **Medicine and Health**

# Exir Nano Sina



**Mahnaz Qomi, CEO,**  
**PhD in Analytical Chemistry**

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## • About Company:

The Knowledge-based nano pharmaceutical company founded with the support of Iranian Nanotechnology Initiative Council in 2009. The first product (Sina Doxosome) launched to the market in 2011 after obtaining permission license from Iran FDA.

## Vision:

- Maximizing the benefits of medications
- Improving quality of life
- Advancing our technology

## Missions:

- To become a local and global leading Nano pharmaceutical company
- To contribute more towards making a difference in the healthcare industry
- To improve Iranian nanotechnology pharmaceutical industry

## Sina Doxosome®: Doxorubicin HCl Liposome Injection (2mg/ml)

### Advantages:

- Slow Release
- Change in Biodistribution
- Tumor Targeting
- Effectively reduce the side effects of drugs

### Indications:

- Breast Cancer
- Ovarian Cancer
- AIDS-Related Kaposi's Sarcoma
- Multiple Myeloma



## Sina Curcumin: Nano-Micellar Soft gel (80 mg Curcumin)

### Pharmacological effects and Indications:

- Anti-inflammatory
- Anti-oxidant in prevention different kind of cancers
- Anti-tumor
- Supplement in treatment of Hepatic disorders and improvement of liver function



## Sina Ampholeish: Topical NanoLiposomal Amphotericin B (0.4%)

(SinaAmpholeish) for the treatment of cutaneous leishmaniasis.

### Patent:

US 2015/0147382 A1



## Products

- NanoPak multi layer industrial nanofiber Mask
- Protection level: FFP3
- Contains 1 nanofiber layer
- Intercepts suspended 0.3 micrometers particles
- Suitable for protection against bacteria, dust, air pollution, pollution caused by gardening, and carpentry.
- Suitable for protection against hair color and hair bleaching odors, pedicure and manicure particles and detergent smell



### Certificates:

- INIC and the center of research and training for occupational safety and health (CRTOSH)
- Institute of nuclear service and technology (Iran)
- Bacterial Filtration Efficiency Test in USA Nelson Laboratories

## Nano Tar Pak



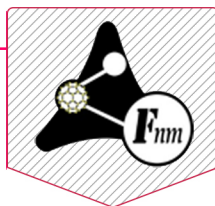
**Kousha Bani Mahd,  
Marketing Manager**

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### • About Company:

NanoPak Mask is consisted of several layers with the middle layer containing nanofiber. The size of most dust particles and airborne contaminants is between 1-3 micrometers. So, they can easily pass through common masks. Nanofiber masks, however, are able to efficiently intercept air borne particles to 0.2 micrometers. The filtration capacity of NanoPak is 100 times higher than common masks. Due to use of nanofibers in these masks, the life time of them is 4 times more than common masks. Having a suitable package, it can be used more than once. The knowledge-based Nanotarpak company designs and produces Nanofiber which is applicable in industrial workplaces such as cement and concrete industries, food industries, welding, casting, soldering and masonries.

# Fanavaran Nano-Meghyas (FNM)



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## • About Company:

Fanavaran Nano-Meghyas (Fnm co. Ltd.;) founded in 2004, is a knowledge based company aiming at development of nanofiber technology and its application. FNM's products and services include design and production of electrospinning machines in lab, pilot and industrial scales as well as melt, force and blown electrospinning systems, with various accessories including high voltage power supplies and syringe pumps for respiratory face mask, powerplant and automotive air and oil filters based on nano fibers. FNM's lab-scale electrospinning machines are excellent for research and development of several kinds of ceramic, polymer, composite nanofibers. These high quality machines have reasonable and competitive price and they have been exported to different countries such as Malaysia, S. Korea, China, Pakistan and Nigeria. FNM's large scale electrospinning machines can be used in coating of filter papers by a layer of polymeric nanofibers. A thin layer of nanofibers increases the filtration efficiency, filter life-time and dust holding capacity without raising the pressure drop. The nanofilters produced by this large scale machine are useful in car filters, power plant filters, respiratory face masks, etc.

## Products

- Industrial Nanofiber Production Line
- Pilot electrospinning machine
- Lab-scale electrospinning machine
- High Voltage Power Supply
- Syringe Pump
- Polymeric, carbone and Ceramic nanofibers
- Air nanofilter,
- Liquied filters
- Respiratory nano face mask



## Certificates:

The produced nanofilters passed required tests, standards and certificates from appropriate and related institutes such as VTT (Finland) and DMT (Germany).





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**Building**

# Kaveh Glass Industry Group



**Jamshid Rahimi, Head Of Flat Glass Division**

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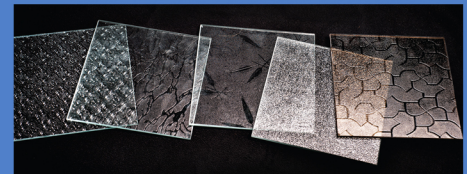
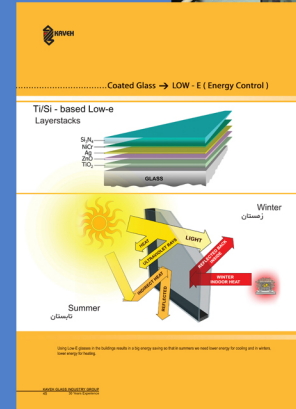
## • About Company:

The Kaveh Glass Group is an umbrella company established in 1985. KGG is a leading manufacture of flat industrial glass and tableware with a significant share in both domestic and international markets. Last year total annual production of flat glass was far beyond the forecasted figures, and the three glass tableware plants have managed to exceed all expectations. Company has been in flat glass and tableware business for nearly 30 years, yet we have expanded our manufacturing capabilities and now we serve our clients in every major market around the world. We have accomplished so much in a short period. It's mind boggling to ponder what's in the horizon.

## Certificates:

ISO 9001, ISO 50001, ISO 140001, OHSAS, 180001, CE Mark

## Products



## Products

Aria Nano products are used in UPVC, PE and PP nanocomposites. In UPVC industries, the brittleness of UPVC is a big problem. With no further cost, impact strength of UPVC can be improved up to 5 times by using nano-additives.



# Ariapolymer pishgam



**Mohamad Aliabadi farahani, CEO**

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### • About Company:

Aria Polymer Pishgam Co. was established in 2009 in Isfahan science and technology town. We are mainly focused on polymer and nanotechnology fields including: auto-motive, home appliance, building industry, packaging and many other applications. Currently, we offer 4 services, namely consulting, selling know-how, selling royalties and manufacturing high tech materials such as polymer nanocomposites which have high value added.

### Certificates:

ISO9001-ISO27001-CE, Grand Prize of ASPA(Asian Science Park Association)



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**Agriculture**

# Parsa Polymer Sharif



**Saeid Zokaei, CEO**

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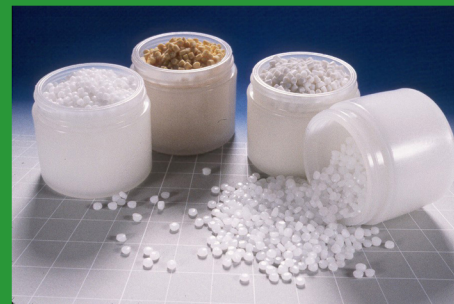
## ● About Company:

Parsa Polymer Sharif Co. is a leading manufacturer of advanced polymeric compounds with wide variety of products essential to everyday living. Since its establishment in 2007, mission of Parsa Polymer Sharif Co. has been the same: To diligence to produce the highest quality engineering-designed plastic compounds.

## Certificates:

ISO 9001:2015, ISO/IEC 17025, ISO/TS 16949, ISO 10002, Fraunhofer Certificate, Vincotte Certificates, Several OEM Certificates, INIC Certified Nano-composites

Parsa Polymer Sharif produces a wide portfolio of polymeric compounds and masterbatches based on commodity, as well as engineering thermoplastics and high-tech nano-engineered composites, for different sectors including: Automotive, Pipe, Packaging, Appliances, and Agriculture Industries



## Products

- Nano colloid maker machine
- Low pressure low energy consumption homogenizers
- Brackish water desalination systems
- Heavy metal removal systems from water
- Nitrate removal systems from water



**Certificates:**  
CE, ISO 9001



## Payamavaran Nanotechnology Fardanegar



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### • About Company:

PNF Co. is a knowledge based company which has developed several technology platforms to improve human life quality and protect the environment based on nanotechnology. In this regard, PNF Co. has managed to develop electrical explosion of wire technology to produce metallic and colloidal nanoparticles to meet the current demands of nanomaterials market. In a waste water treatment by exploiting the advantages of selective electro dialysis technology as well as other emerging technologies. These methods are employed to implement several industrial scale projects. In addition, a special method called hydrodynamic nano cavitation technology has been introduced for particle dispersion, low pressure homogenization and micro and nano emulsions preparation applications. Currently, the company is working on industrial water and on nitrate and heavy metals, i.e. arsenic, removal from potable Water and waste water.



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**Automobile**

# Nano Sakhtar Mehr Asa



**Ata Akbari, CEO**

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## • About Company:

Nano Sakhtar Mehr Asa Company was founded in 2013 in order to investigate, research and develop in the field of Nano-fiber and Nanotechnology products. The main goal of NSMA is to replace ordinary fibers by nanostructured fibers. We have been trying for more than a year to design and produce the initial machines, as well as presenting the prototype of the first generation of industrial machines with ability to mass-produce high volumes of nano-fibers. NSMA Company is one of the world's leading nano filter producers. With its advanced R&D and pilot manufacturing facilities, Pordo nano filter has developed an advanced nanofiber technology to drive value in customers' products.

## Patent:

International Standard and License: Standard (ISO/IATF 16949-2016)

Pordo nano car air filters, are covered with layers of nano fiber, traps and refines majority of suspended particles in air. In addition, they improve the function of engine, increase acceleration and efficiency of automobile and finally reduce fuel consumption. This innovation enhances engine's function, and it causes complete combustion of fuel in combustion chamber, which increases automobile's acceleration, also reduces the amount of pollutants in exhaust air. Nano filter can be the best and the most proper substitution for usual car air filters accordingly.





## Sevin plasma surface engineering Co.



Ali Salehi, sales representative

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### • About Company:

Sevin plasma surface engineering" had been started its activity as the first company in the field of PVD hard coating technology in Iran since 1999. The activity of this company is based on two main categories: design and development of PVD coating equipment to promote the coating quality and also design, deposition and service of new PVD coating. Innovation of this company in PVD coating is consist of three generation of hard coating as monoblock, multilayer and nanolayer & nanocomposite structure.

The outlook of this company is move to upgrade the level of PVD hard coating technology and cooperation with other companies all around the world.



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**Lab equipment**

# Tavana



Mohammad Javan Almasi, Deputy

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## • About Company:

TAVANA Co. provides nanotechnology educational training services and supplies nanotechnology educational kits and experimental and analytical lab equipment. Training is offered to various students aged between 9-18 years old.

TAVANA Co. has designed and produced this unique educational package to introduce simple concepts of Nanotechnology to young students from basic to advanced.



## Products

- Workshops
- Educational kits
- Expositive kits
- Lab equipment
- Educational materials (books, movies,...)



## Note

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Handwriting practice area with 20 horizontal dotted lines.

## Note

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Handwriting practice area with 20 horizontal dotted lines.



# A Brief Description of Iranian Nano technology Companies Participated in Iran - Indonesia Business Matchmaking



**Deligation to Indonesia**  
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