

A dynamic splash of clear blue water against a white background. The water is captured in mid-air, creating various droplets and streams. Overlaid on this splash is the logo for 'itok'. The word 'itok' is written in a bold, black, lowercase sans-serif font. A thick, bright blue circular line is drawn around the letters, with a small black dot at the top of the circle, resembling a stylized 'i' or a globe. The overall composition is energetic and clean.

itok

Itok Afarinan Fanavari



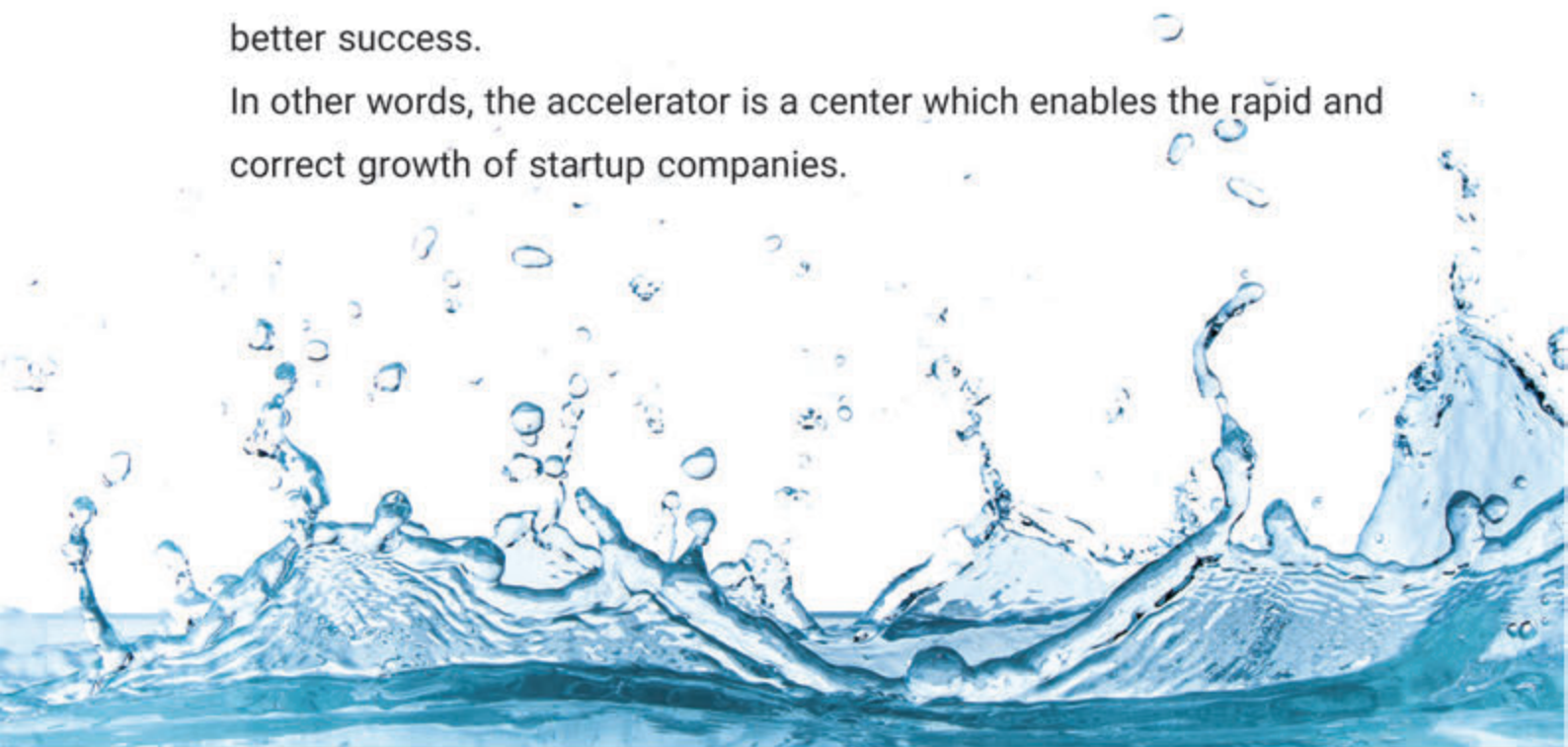
Introduction:

At first Let us explain the concept of a startup accelerator:

An accelerator is a company which covers a new startup from the beginning of its activities.

To do this, the company selects a special case as a startup among the participants and applicants, after a short time. The accelerators will acquire a percentage of the ownership of a new startup or idea by primary investment and in return, they will train project managers to achieve better success.

In other words, the accelerator is a center which enables the rapid and correct growth of startup companies.





Our Motto
Creating Wealth
from Modern
Technologies

Vision:

Itok Afarinan Fanavari Co., will be one of the pioneer companies in the field of development of modern technologies, focusing on innovation and its application in the water, wastewater and environment industries of the country in the next 10 years.

Mission:

To identify the requirements of industry including water supply and wastewater treatment in the sectors of drinking, industry, agriculture and environment and to establish extensive and active communication with scientific, executive centers and knowledge enterprises and to create a relation between them in the position of facilitator, accelerator, consultant and an implementer to meet the identified needs through innovation and application of new technologies

Company's Objects:

1- Water Sector:

- 1-1- Desalination
- 1-2- Turbidity removal
- 1-3- Nitrate removal
- 1-4- Heavy metals removal
- 1-5- Injection of Chlorine, Perchlorine solution, Ozone ... with Nanobubble technology in the water treatment process
- 1-6- Smart equipment for leak detection

2- Wastewater Sector:

- 2-1- H₂S odors removal
- 2-2- Wastewater treatment process
- 2-3- Wastewater treatment promotion with Nanobubble
- 2-4- Blower replacement by Nanobubble
- 2-5- Industrial wastewater and agricultural sewage treatment

3- Sewage Recycling:

- 3-1- Using ceramic filters
- 3-2- EDR and RO systems combination to treat sewage of Reverse Osmosis System
- 3-3- ZLD (Zero Liquid Discharge)

4- Environment:

- 4-1- Odors removal
- 4-2- Other pollutions removal

5- Supplying Equipment and other Goods related to the said Activities

6- Financing the Technological Plans

7- Forming a Consortium for Investment and the implementation of Technological Plans

Completed and ongoing Activities and Projects

- 1- Participation in the simultaneous removal of salinity and nitrate through EDR
- 2- Odor removal at Sary wastewater treatment plant
- 3- Odor removal at the wastewater treatment plant of Mehr housing at Mehrshahr, Garmsar
- 4- Odor removal from the manholes of Kashan wastewater system
- 5- Abuzeydabad effluent recycling project for industrial reuse in industry by EDR + RO
- 6- Nano Ozone injection in Saveh water treatment plant projects
- 7- Abuzeydabad ZLD project
- 8- Emergency and small communities water supply package
- 9- Development of Gheytharieh wastewater treatment plant project with Nanobubble Technology



For further information about these projects please visit our Instagram page:

[@itok.tec](https://www.instagram.com/itok.tec)

Focus of Company's Activity:

One of the successful models for commercialization of technology and enhancement of large industries' performance, is the cooperation of these industries with technologists and the incorporation of technology-based companies in the value chain of a large industrial company. Therefore, the Technology Exchange Network of the Vice-Presidency for Science and Technology has introduced Itok Afarinan Farnavari Company as its representative to facilitate the process of exchanging new technologies with the mission of quantitative and qualitative development of projects in the fields of water, wastewater and environment, which Itok Co is undertaking creating the right structure and effective communications.

Levels of Company's Activities:

- 1- To conduct the census of technically oriented industries by identification of technologies that are capable of finding an appropriate solution to address the challenges and the needs of the industry.
- 2- To create effective link between technology and industry to complete the value chain.
- 3- To create synergy between beneficiaries and wealth production



**Our vision is to create wealth by
providing solutions through
the state of art technologies**





EDR and RO Combined Technology:

Through the participation of the private sector, the support of the Vice-Presidency for Science and Technology and by applying electro dialysis machines manufactured by Iranian knowledge enterprises, Tamin Ab Kavir Hamoon Co., has succeeded in recycling the effluent of desalination systems of Abuzeydabad drinking water plant with 85% efficiency and has been able to supply the produced water to meet the water demands of the region for the first time in Iran. With this creativity, while protecting the environment, the company has made a significant contribution in the supply of industrial water and in the development and the leap of industrial production in the city of Kashan

Desalination Plant Sewage



Urban Wastewater Treatment Sewage



Unconventional Water



Industrial Wastewater Treatment Sewage





Emergency Water Supply Package:

Portable emergency packages of 50 m³ in capacity and running on solar energy are manufactured in three models of TAK - TD 40, TAK - T 50 and TAK - D 40 which are designed and manufactured creatively for water treatment and desalination, without the need to use the power from the distribution network. These packages, which can also be exported, can easily treat very high turbidity during emergency situations and produce drinking water. Moreover, in regions where the water is brackish or brine, these packages can produce and supply drinking water to the consumers without the need for connection to power network.

Flood



Hootaks (water puddles)



Earthquake



Small Communities



inaccessible Villages



Volcanos



War



Nanobubble Energy:

As a pioneer in Iran, this technology has been successfully applied to design and produce industrial microbubble, micro-nanobubble and nanobubble generators for gases including air, oxygen, ozone, nitrogen and carbon dioxide by highly efficient state of art technology at low operation cost for various industries such as water and wastewater, environment, aquaculture, agriculture and food production. Nanobubble technology can be applied for disinfection, arsenic removal, aeration of wastewater ponds and removal of unpleasant odor and taste from drinking water.

Agriculture



Fish and Shrimp Farming



Water Odor and Taste Removal



Hydroponics



Dissolved Air Floatation (DAF)



Wastewater Treatment

Odors Removal Technology:

This technology is used in the field of filtration at industrial and sanitary environments, and for the removal of unpleasant odors, dust and gaseous pollutants from factories, etc.

Wastewater Manholes



Wastewater Treatment Plants



Waste Landfills

Chicken Farms



Slaughterhouses

Animal Husbandries

Industrial Factories



ZLD System:

The effluent of industrial units, whether desalination plants or industrial complexes, has received special attention in today's societies from two aspects; the discharge of waste to the environmental cycle on one hand and the loss of usable water due to effluent evaporation on the other; have led to the formation of Zero Liquid Discharge (ZLD) technology. The underlying principle of the ZLD process is evaporation and condensation. At different and recurring stages, the effluent water is steamed and extracted in an operational cycle, and then the condensed waste is returned to the previous cycle again. This process continues until the waste is removed as a crystal. An important and competitive point in the technologies used by various manufacturers around the world is the use of suitable nano coatings in MD stage membrane fibers as well as nano resistant coatings on the MVC stage compressor blades.

Unconventional Water



Waste Leachates



Textile industries' Wastewaters



Desalination System



Petrochemical industries and Refineries



Car Factories

The Electrodialysis Device (EDR):

This technology has been considered by various industries such as water and wastewater treatment, food technology, cold pasteurization, pharmaceutical industries and the production of various nano-medicines, paint and polymer, oil and petrochemical industries.

Saline Waters Desalination



Water Arsenic Removal



Nitrate Removal



Ceramic Filters:

Minerals separation in water treatment process is realized by physical, chemical, biochemical, microbiological and various other processes. Ceramic membranes are one of the best and high efficient methods for the physical treatment of water, which reduces the consumption of chemicals to zero. Ceramic membranes are thin layers of semipermeable material that are able to easily separate suspended particles from liquids and water. The orifices in ceramic membranes are 200 nm or less in size, which reduces the turbidity to below 1 NTU. The space and energy required in this system is considerably less than other methods.

Automobile Manufacturing



Wastewater Treatment Sewage



Wastewater Treatment Plants



Reverse Osmosis System



Petrochemicals



Food Technology



دوره‌های صنعت فناوری‌ها

شماره: ۳۰۹۹۰۰۰۰۰۰

تاریخ: ۱۳۹۹/۰۶/۲۷

باسم تعالی

العلم سلطان، من وجدته فعال به، و من لم يجدته تعبد علمه.

هم‌اکنون است مراکز این قدرت را به چنگ آورده، چنانچه قبلاً به آنجا
برگشتی که این انکار را به دست نیارم، پروردگاری خودم شایسته
انبار علم است.



ریاست جمهوری
سازمان علمی فناوری
سازمان توسعه فناوری‌ها

لوح تقدیر



جناب آقای مهندس مرتضی گلابچی

مدیرعامل محترم شرکت ای‌توک آفرینان فناوری

بنی‌شک دستوردهای علمی و صنعتی کشور عزیزان در حوزه فناوری‌ها در همه‌گذشت، جز در سایه ایمان و تلاش سختی پذیرم‌مستمان
و فناوریان ایرانی، یسر نهاده است؛ ارج نهادن به زحمات صورت گرفته با معرفی محصولات فناوری از به جامد از طریق
ترویج صنعتی فناوری‌ها، علاوه بر حفظ و ارتقای سطح علمی و فناوری کشور، گامی موثر در پیش تولید، خلق ثروت و افزایش
کیفیت زندگی مردم خواهد بود.

الکون که به یاری پروردگار و دست شما، دستار کار بردهای صنعتی فناوری‌ها در صنعت آب، پساب و محیط زیست، در
شهر پارسه ۱۳۹۹، برگزار شد، با اهدای این لوح از جناب عالی تقدیر و تشکر می‌گردد؛ توفیق روز افزونتان را از خداوند متعال
خواستاریم.

نهاد احمدوند
رئیس گروه ترویج و فرهنگ سازی

Itok Afarinan Fanavari

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