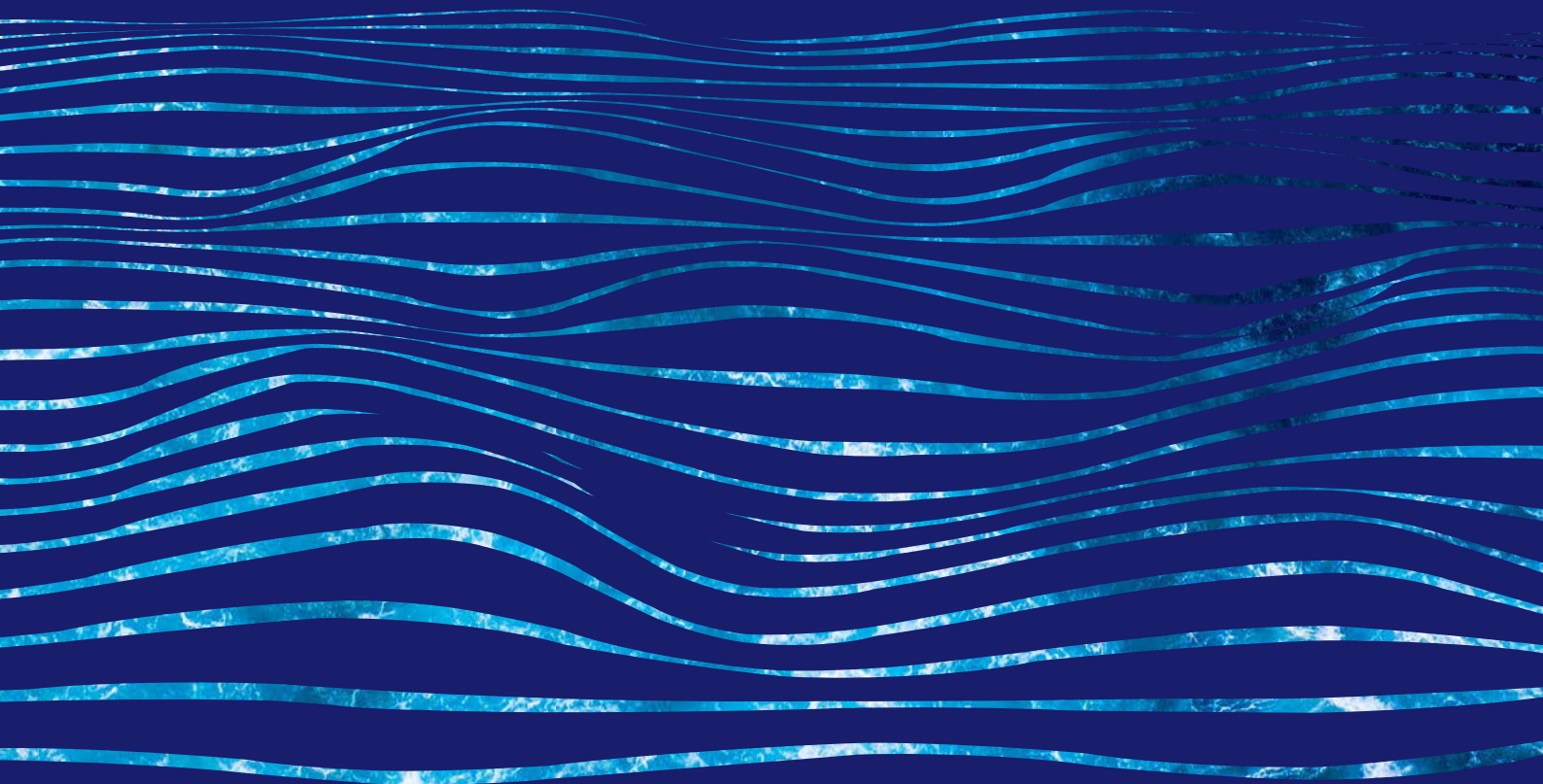




SMART CHOICE, ENDLESS GROWTH



www.SEAWATER.ir



● ● ● Grand Saboo Villa

ABOUT US

Sedaye Ab Darya (S.A.D) Company began its operations in 2006, focusing on the design and construction of swimming pools. In 2017, with the goal of expanding its services and offering innovative solutions in the pool industry, the company entered a new phase of growth and development – driven by advanced technologies and a modern approach.

With extensive technical knowledge and valuable experience, the professional team of S.A.D has successfully executed numerous projects in construction and installation across residential, public, and private sectors, earning multiple certificates and commendations for excellence.

Today, Sedaye Ab Darya continues to strengthen its position as one of the leading and trusted brands in aquatic facilities industry, driven by precision, teamwork, commitment to quality, and continuous innovation.

COMPANY MILESTONES

2006 – The Beginning: Introducing Advanced Disinfection Technology to Iran Swimming pool Market

The company began its specialized activities in water disinfection and pool installations.

By obtaining exclusive representation from WEDCO (Germany), a leading manufacturer of water disinfection systems and ozone generators, Sedaye Ab Darya introduced modern ozone-based technologies to Iran.

The installation of the first public pool ozone generator without the need for foreign technicians marked a significant step in localizing technology and raising national standards.

2010 – Expanding Technical Expertise and Enhancing Project Quality

Development of local ozone generation and injection systems began.

The execution of mechanical installations for residential pools using equipment from WATERCO (Australia) – a renowned producer of pool pumps and filtration systems – elevated construction quality to international standards.

2013 – Integrated Solutions for Luxury Projects

Sedaye Ab Darya strengthened its position in the high-end residential market by offering comprehensive mechanical and electrical system design and implementation for luxury pools.

The company also developed smart electrical control panels for pool equipment, delivering integrated and engineered solutions tailored to each project.

2016 – Entering Large-Scale Sports Complex Projects

A turning point for the company. By designing and implementing mechanical and electrical installations for major sports facilities – and providing specialized consultancy for related spaces – Sedaye Ab Darya gained valuable experience in managing complex, multi-dimensional projects.

2017 – A pioneer in Elevated & Cantilevered Pools and Expanding International Partnerships

Designing and executing one of the largest cantilevered pools in Iran positioned the company as a pioneer in this field.

In the same year, Sedaye Ab Darya became the official representative of BSV (Spain) – manufacturer of salt chlorination systems – and FILTREAU (Netherlands) – supplier of UV and AOP water disinfection systems – further enhancing the quality and reliability of water treatment solutions.

2018 – Expanding Product Range and Innovation in Projects

With the exclusive representation of PISCIMAR (Spain), a producer of eco-friendly pool care chemicals, the company completed its product portfolio.

At the same time, Sedaye Ab Darya introduced fiberglass insulation for elevated pools in high-rise buildings, marking a new era in non-traditional pool construction.

2020 – Entry into Training Pools, Hydrotherapy and Wellness Spa

By obtaining representation from MAR PISCINE (Italy) – a supplier of pool accessories and hydrotherapy equipment – the company began designing and executing school and sports facilities in accordance with global standards.

2021 – Diversifying Equipment and Meeting Global Standards

The addition of ZODIAC (France) for robotic pool cleaners, GASSERO (Turkey) for boilers and heating systems, and AKERLIGHT (Turkey) for pool lighting systems, significantly enhanced the quality and performance of Sedaye Ab Darya's project offerings.

2022 – Localization of Production and International Brand Development

The company launched local production of specialized pool equipment and swimming pool chemical solutions under the Iranian brand CRYSTAL POOL, reducing reliance on imports.

By obtaining representation from FITSTAR (Germany) – supplier of aquatic sports and counter-current systems – and implementing iconic elevated pools in high-rise towers, Sedaye Ab Darya showcased its advanced engineering capabilities.

2024 – Renovation of Commercial pools and Advanced Collaborations

Sedaye Ab Darya acquired exclusive representation for AQUALIFT (France), specializing in movable pool floors and lifts, and SOFATEC (France), known for high-quality pool covers. Major renovations of commercial pools facilities and advanced engineering projects were among the highlights of this year.

2025 – AI Integration in Pool Design & Smart Water Management

In 2025, Sedaye Ab Darya entered a new phase with the adoption of Artificial Intelligence technologies in pool design and operation. AI-driven systems were implemented to optimize structural design, improve energy and water circulation, automate water quality monitoring, and enhance maintenance efficiency—positioning S.D.A as a technology-driven company in Iran's aquatic engineering industry.

Sedaye Ab Darya is dedicated to the design and construction of public, competition, and large-scale swimming pools, moving steadily toward becoming the most trusted reference in the country's aquatic facilities industry. By importing equipment from top European brands and offering advanced maintenance services, we continue to lead the pool industry.

Our signature projects – such as glass-walled and cantilevered pools – reflect our blend of innovation, boldness, and refined aesthetics.

Looking ahead, the development and consolidation of the company's position as one of the leading manufacturers of

pool and spa equipment in the country will be a core pillar of our strategy; an approach driven by targeted investment, continuous innovation, and the application of up-to-date technical expertise and international standards, aimed at strengthening our competitive position at both national and regional levels.

We strive to establish new standards in pool design, construction, and maintenance – standards that guarantee quality, efficiency, and customer satisfaction – and to make a lasting contribution to the professional development of aquatic industry.

VISION

At Sedaye Ab Darya, our mission is defined through a commitment to expertise, innovation, and international standards, guided by the following core principles:

Professional Pool & Spa Design and Construction: Delivering commercial, and domestic pool projects using cutting-edge technologies with strict adherence to international safety and quality standards.

Comprehensive Project Management: Implementing full project management principles – from concept to completion – ensuring efficient resource use and precise scheduling for optimal results.

Specialized Pool & Spa Services: Providing maintenance and periodic repair services to enhance performance, extend lifespan, and reduce long-term costs.

Sustainable and Eco-Friendly Technologies: Utilizing smart, energy-efficient systems to optimize resource consumption and promote environmental responsibility.

Importing Modern Equipment: Supplying and installing advanced European pool and spa systems to elevate service quality and customer experience.

Creating Unique Customer Experiences: Offering tailored, innovative solutions that meet the diverse needs and preferences of our clients.

Representative Support and Training: Enhancing the expertise of our partners through structured training programs and knowledge transfer to build a strong, professional service network nationwide.

Production of Pool and Spa Equipment: Investment in the design and manufacturing of modern, standards-compliant equipment, focused on innovation, quality enhancement, and strengthening our competitive position in the aquatic facilities industry.

MISSION

CORE VALUES

Our core values not only define our work culture but also inspire us to deliver distinctive, professional, and sustainable services:

Superior Quality: Commitment to the highest quality standards to ensure long-term client trust and satisfaction.

Innovation & Creativity: Pursuing distinctive, inspiring projects through advanced technologies and original ideas.

Transparency & Integrity: Building relationships based on mutual trust, open communication, and absolute honesty.

Continuous Support: Providing lasting after-sales service to ensure quality and optimal project performance.

Customer Commitment: Understanding client needs and delivering the best possible experience in every project.

Sustainability: Promoting efficient use of limited water and energy resources, supporting environmental responsibility, and advancing sustainable industry practices.

These values guide us in creating exceptional and lasting experiences in the pool and spa industry.

SENIOR MANAGERS



Hamidreza Sadeghi
CEO



Hamed Sadeghi
Board Member

Leading with Empathy, Succeeding through Synergy



Benyamin Rahnama
Warehouse
Supervisor



Majid Jafari
Maintenance Services
Manager



Mansour Zardashti
Human Resources
Manager



Zahra Maghari
Financial Manager



Rezvaneh Sodagar
Sales Manager



Saman Mohammadi
Technical and Engineering
Manager

INTERNATIONAL BUSINESS PARTNERS



With over 15 years of successful collaboration with European pool, sauna, and hot tub brands, Sedaye Ab Darya has established itself as an internationally recognized name, supported by the execution of hundreds of professional projects and the development of the Iranian brand “Crystal Pool.”

SUBSIDIARY BRAND: CRYSTAL POOL

With over 15 years of experience in consulting, design, construction, and import of pool equipment, Sedaye Ab Darya established the Crystal Pool brand after extensive research and in-depth analysis of global technologies – with the goal of bringing a new era of innovation to pool industry and supporting domestic specialists.

Crystal Pool's product range includes filtration and heating systems, pool care chemicals, and a variety of essential pool equipment – all designed specifically for Iran's climate and built using global technologies with a focus on environmental protection, innovation, and customer satisfaction.

CRYSTAL POOL KEY FOCUS AREAS



Production of prefabricated fiberglass swimming pools



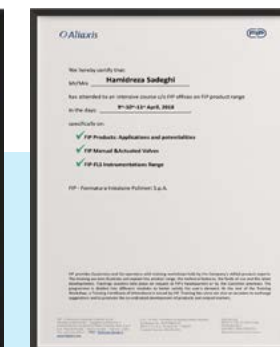
Manufacturing pool equipment

CERTIFICATES

Our international certifications represent our commitment to delivering products and pool services with the highest levels of quality, technical expertise, and adherence to professional standards.



HSE-MS Certification
Health, Safety & Environment
Management



Design and Equipment Supply
Authorization – FIP, Italy



ISO Certification

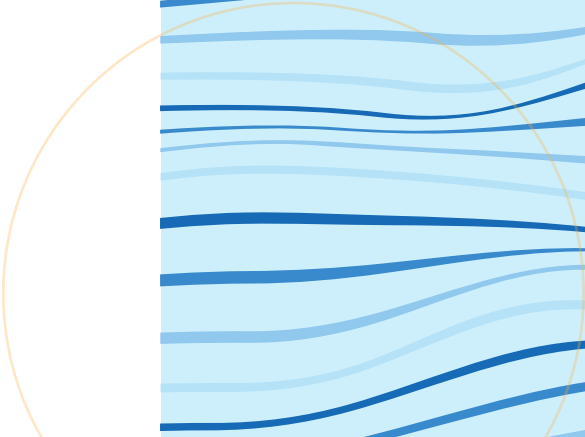


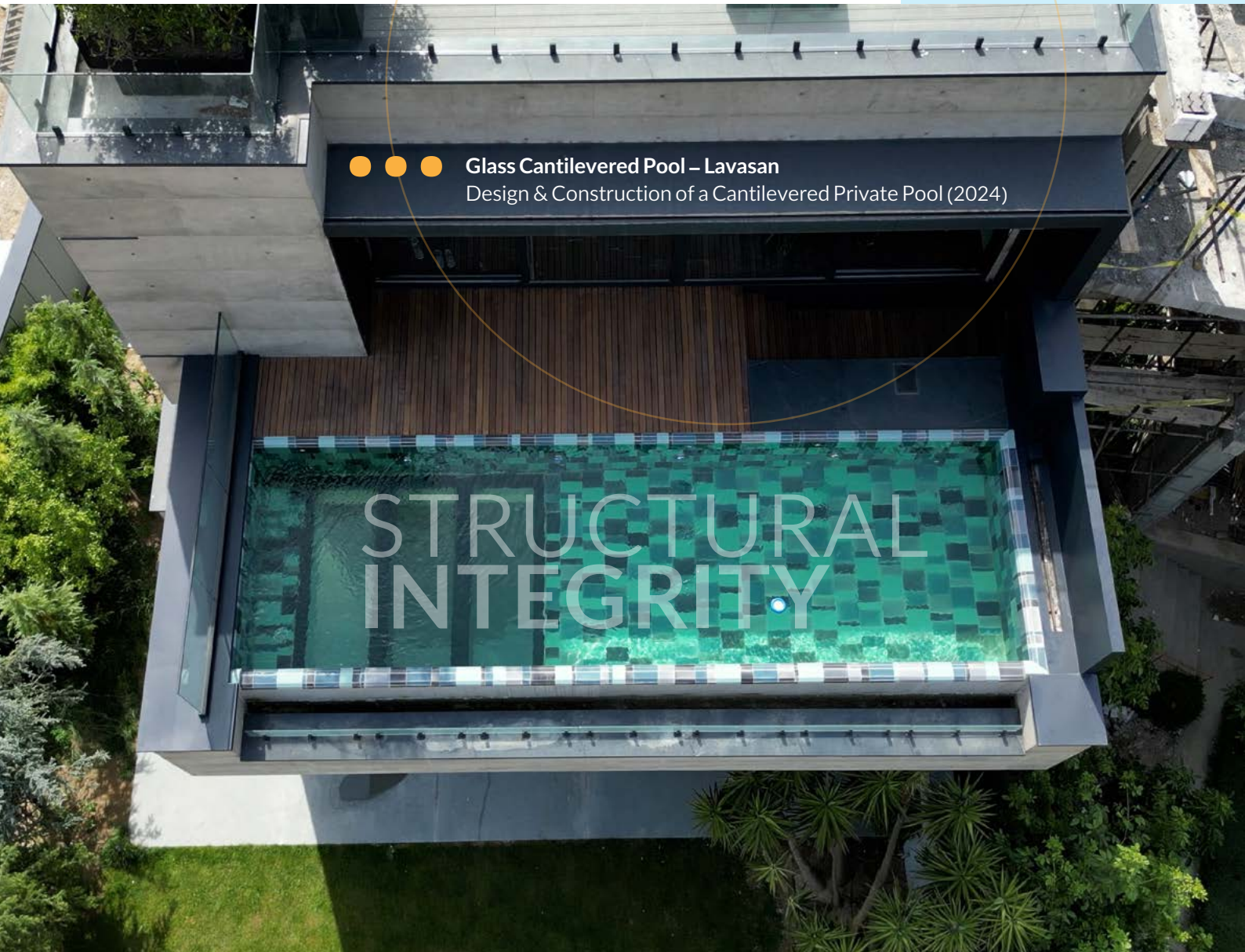
Training Certificate – BSV,
Spain (Design, Installation, &
Maintenance of Salt Chlorination
Systems)

Creativity in Design, Precision in Execution, and Adherence to Professional Standards in Pool, Sauna, and Hot Tub Equipment

SELECTED PROJECTS

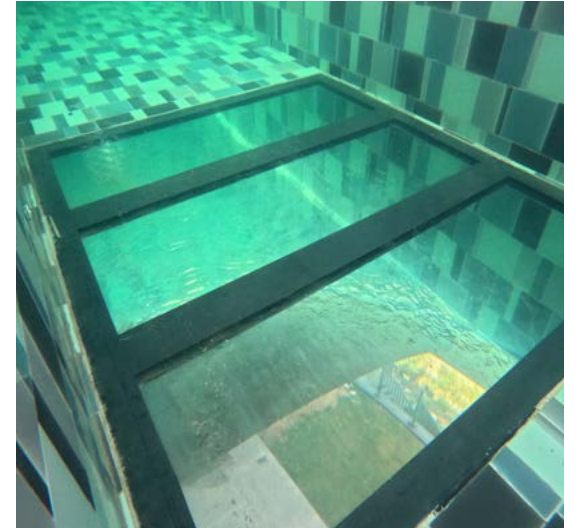
COMPLETED PROJECTS





Glass Cantilevered Pool – Lavasan
Design & Construction of a Cantilevered Private Pool (2024)

STRUCTURAL
INTEGRITY



This landmark project features a modern and unique cantilevered pool measuring 3×9 meters, where the boundary between water and the surrounding landscape visually disappears for swimmers. The use of impact-resistant glass flooring, infinity-edge design, and fiberglass waterproofing makes this one of the most distinctive pools in the country. A custom-engineered filtration and disinfection system ensures optimal performance and long-term durability. This project stands as a prime example of Sedaye Ab Darya's technical expertise and creativity in luxury private pool design and construction.



Infinity Pool & Hot Tub Zibadasht, Karaj (2023)

Due to the elevation difference between the pool, the building, and the surrounding garden, the design was developed to provide an infinite view for swimmers. This project, created in collaboration with renowned architect Engineer Faramarz Sharifimanesh and the Sedaye Ab Darya technical team, is recognized as an inspirational model for luxury private pool design.



Glass-Walled Private Pool – Lavasan Full MEP Design & Execution (2024)

In this exclusive villa project, Sedaye Ab Darya was responsible for the full mechanical and electrical design and implementation of the pool systems. The use of longitudinal glass walls – addressing the height difference between the pool and the living area – creates an unobstructed, transparent view from inside the villa to the water surface, adding a luxurious and modern aesthetic to the outdoor space.





● ● ● Hayat Markazi Project
Full MEP Design & Execution (2023)



This remarkable project, designed by the architecture office of Dr. Alireza Taghaboni, features a geometrically distinctive pool with a shallow section adjacent to the building façade. Detailed design, equipment supply, and complete MEP installation were carried out with precision to ensure both high functionality and seamless integration with the architectural concept.





Kelardasht, Mazandaran Province
Full MEP Design & Execution (2021)

This dual-section pool was designed with one half indoors and the other outdoors, separated by a glass sliding wall. Special attention was given to humidity and temperature control to prevent condensation on the glass divider, ensuring user comfort and optimal system performance.

Zibadasht Vila Complex
Karaj (2022)



The pool in this project was designed with varying depths to meet different user needs. A shallow lounge area accommodates sunbeds and in-water seating. Custom linear gutters designed by Sedaye Ab Darya enhance both the pool's visual elegance and its water collection efficiency.





The Cheshmeh Mansion Project, covering an area of over 1,000 square meters with approximately 650 square meters of built space, represents a fusion of traditional Iranian architecture and contemporary comfort, created by Amin Ferdowsi Architectural Studio.

Drawing inspiration from the forms and concepts of classical Persian design, the mansion blends materials such as brick, wood, and handcrafted tiles with modern glasswork and advanced technologies, resulting in a space that is both rooted in heritage and strikingly modern.

Sedaye Ab Darya was responsible for the design, equipment supply, and installation of the mansion's swimming pools, hot tub, and advanced water treatment and disinfection systems — ensuring water purity, safety, and a luxurious experience for residents.



● ● ● Cheshmeh Mansion – Lavasan
Full MEP Design & Execution (2024–2025)



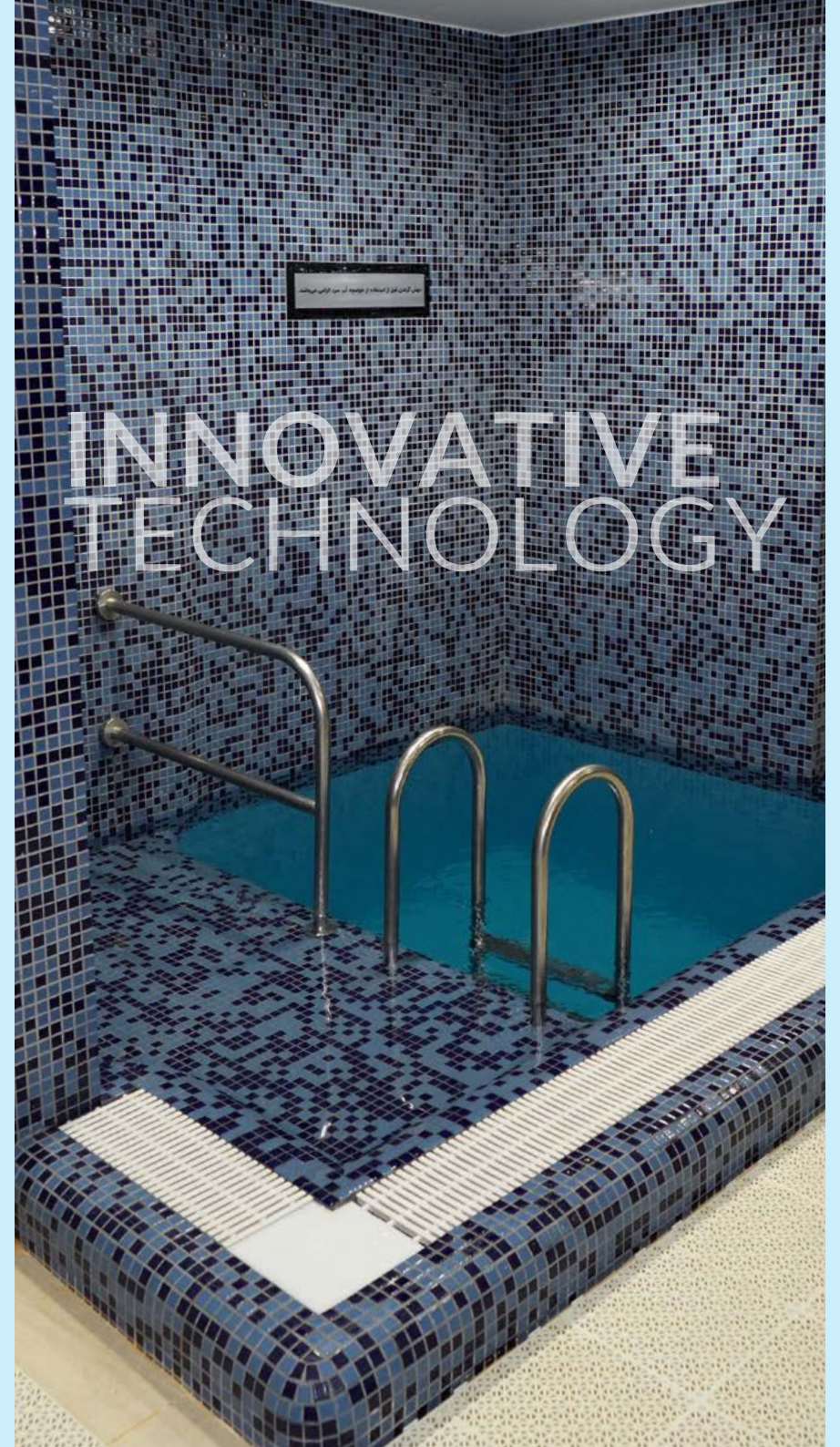
Palladium Mall Pool Renovation (2025)

In this project, the layout was architecturally reimaged and key areas were repurposed to introduce modern, high-end amenities that elevate the entire complex.

A cold plunge pool with a water feature was custom-designed and installed. Powered by an advanced heat pump system, the pool water maintains an optimal, stable temperature across all seasons.

In addition, tailored to the wellness needs of guests and swimmers, a salt therapy room was designed and built to enrich the facility's health-focused offerings.

The entire scope—including architectural and structural consulting, interior finishing, and full mechanical and electrical (MEP) engineering—was executed as an integrated, turnkey project.



**Morvarid Lavasan Project – ADOR Architecture Studio,
Ali & Yahya Sahih Al-Nasab Construction Group (2024)**

In this project, an outdoor pool was developed with the participation of Sedaye Abe Darya in the project's execution phases. This collaboration included reviewing technical details, primary piping installation, and commissioning the filtration system.

To enhance water quality and operational sustainability, a salt chlorination system and a smart electrical control panel were also installed and commissioned in the facility.

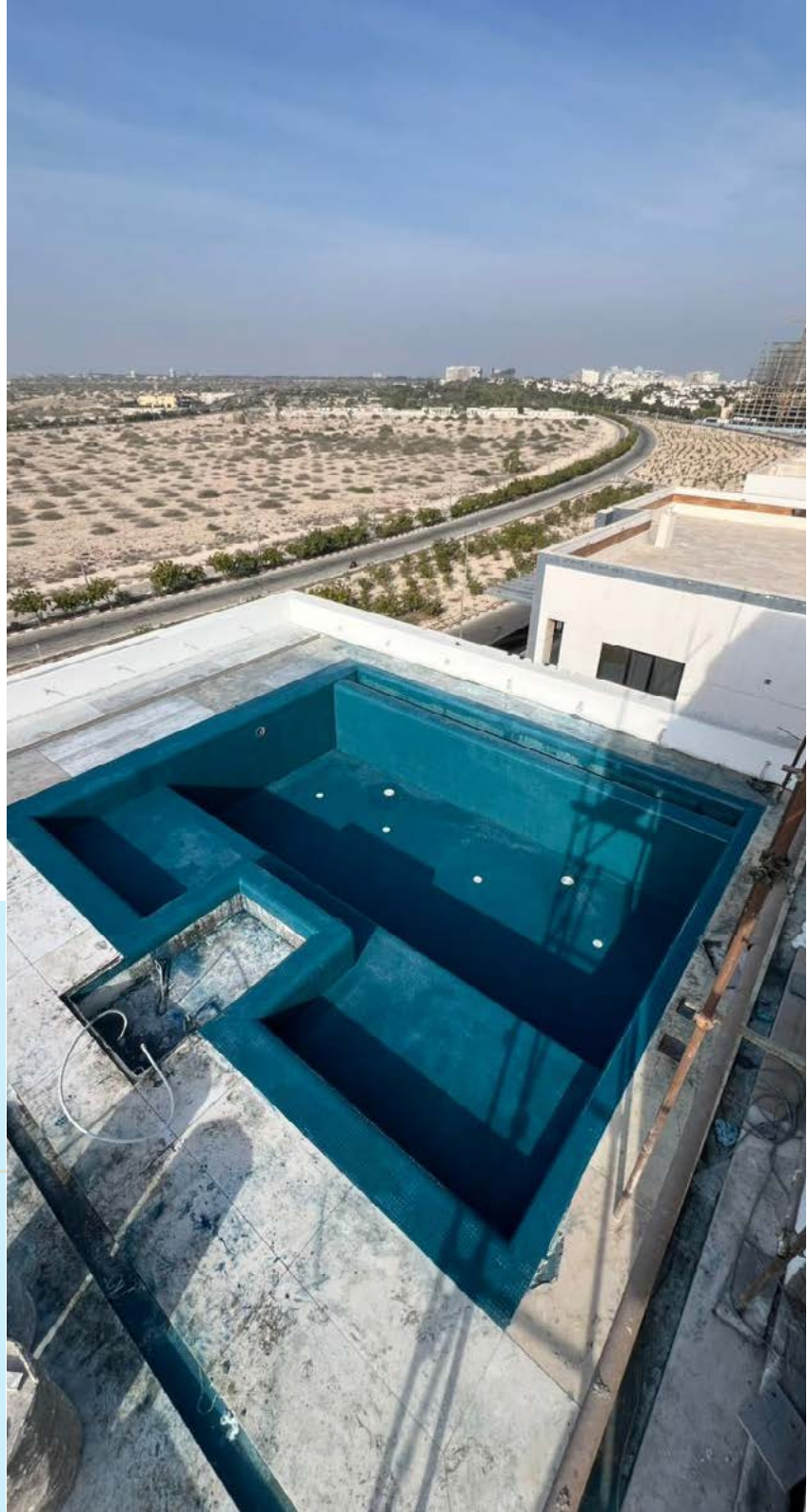
WATER & SPACE INTEGRATION



Diamond Residential Complex

Pool & Jacuzzi Project (2021)

In this project, Sedaye Ab Darya was responsible for the complete design and execution of the pool's mechanical and electrical installations. Additionally, the architectural execution details of the pool were prepared and provided by the company's specialized team.



Sadaf Residential Complex Pool Project

Kish (2022)

This project features an infinity pool designed with a single-sided overflow. Given its rooftop location, a specialized fiberglass waterproofing system was selected to ensure the pool can effectively withstand potential structural movement and settlement at this elevation.

To maintain optimal water temperature year-round, and considering the limitations on gas boilers in the southern climate, a heat pump system was chosen as the primary solution for both heating and cooling. This configuration provides efficient water cooling in the summer and essential heating during the winter.

Furthermore, given the limited length of the pool, a counter-current swimming system was incorporated into the complex to enable in-place swimming and structured swim training.



SUSTAINABLE DESIGN

Saboo Bozorg Villa

(2019–2022)

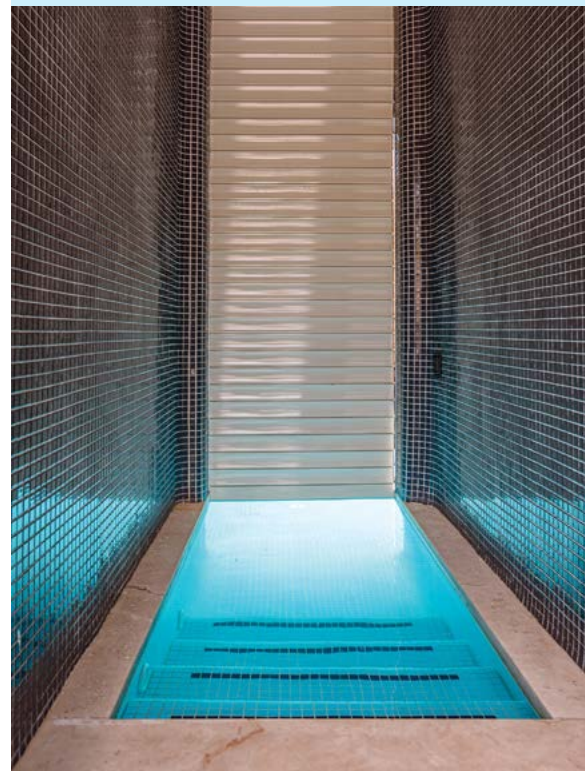
The complete architectural and pool design of this luxury villa was carried out by Sedaye Ab Darya. The four-season outdoor pool features a direct, sheltered path from the changing room to prevent cold exposure in winter. The complex includes the main pool, a hot tub, and a Finnish-style BBQ cottage, with full MEP systems supplied and executed by the company.



Valenjak Sixth Street Project (2026)

In this residential building, at the client's request, an existing terrace pool was converted into a hot tub. Given the terrace's location and structural load constraints, this transformation required an engineered, lightweight, and highly adaptable solution.

The structure was implemented using a lightweight fiberglass insulation system, ensuring superior quality, waterproofing, and durability while eliminating any extra dead load on the building structure. The full scope, including initial design, finishing details, plumbing, MEP installations, control panel construction, and filtration system commissioning, was executed by the Sedaye Abe Darya technical team.



Sarmad School – Lavasan
Training & Commercial Pool Complex (2020)



BUILT TO
PERFORM

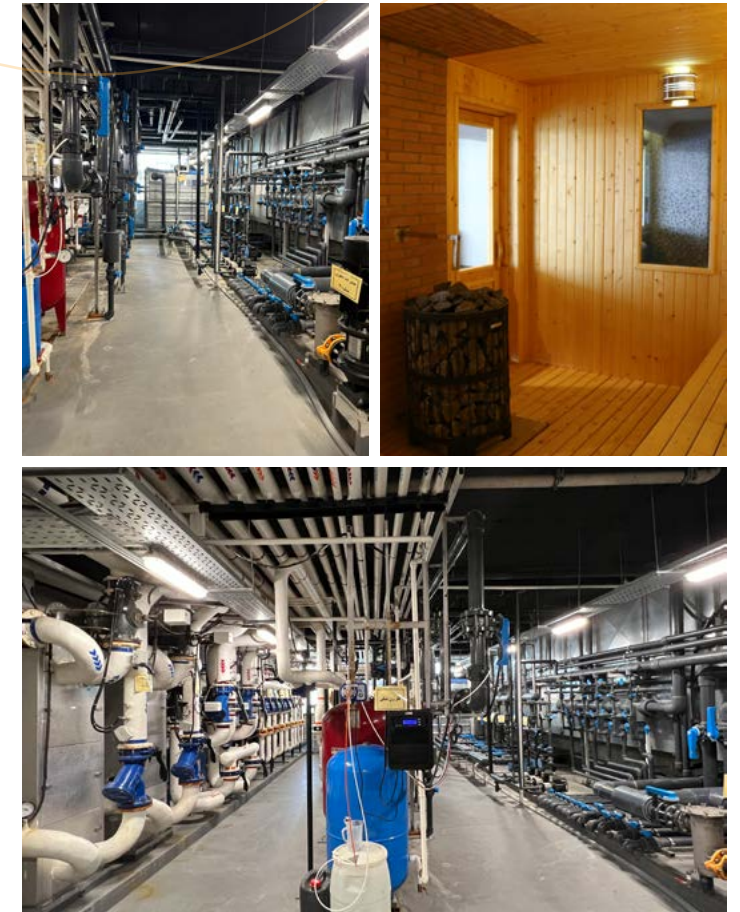
Designed for children and young users, this project adheres to international standards for training pools. Advanced systems including an automatic salt chlorinator, chlorine and acid analyzer, and fiberglass filters ensure water quality and safety. It stands as a successful example of a dual-purpose training and competition pool in Iran.

Payambaran Hospital – Tehran

Pool & Wellness Facility Design & Execution (2016)



The 20×10-meter infinity pool of Payambaran Hospital is located on the third floor, overlooking Payambaran Park. Specialized HVAC design prevents condensation on the 8-meter glass walls. The complex includes an 8-person hot tub, saunas, and a cold Spa, all built to modern standards. Architectural, electrical, and mechanical works were designed and executed by Sedaye Ab Darya.





This prominent project involved revising the architectural plans and fully executing the MEP systems of the Rosemall Sports Complex. Facilities include a 22x10-meter training and hydrotherapy pool, hot tub with multiple nozzles, cold waterfall tunnel, saunas, salt room, massage rooms, two 360° running tracks, massage rooms, changing areas, and adjacent sports spaces. Precise execution and adherence to international standards have made it one of the company's showcase achievements in the national pool industry.



● ● ● Rosemall Sports Complex
Complete Pool & Facility MEP Works (2019)

QUALITY

Mirage Garden Tower Project (2019)

This project involved the construction of two distinct aquatic facilities on the 11th floor and basement level –4, each designed and executed with specialized technical solutions tailored to its specific structural location and unique functional requirements.

WATER & SPACE INTEGRATION

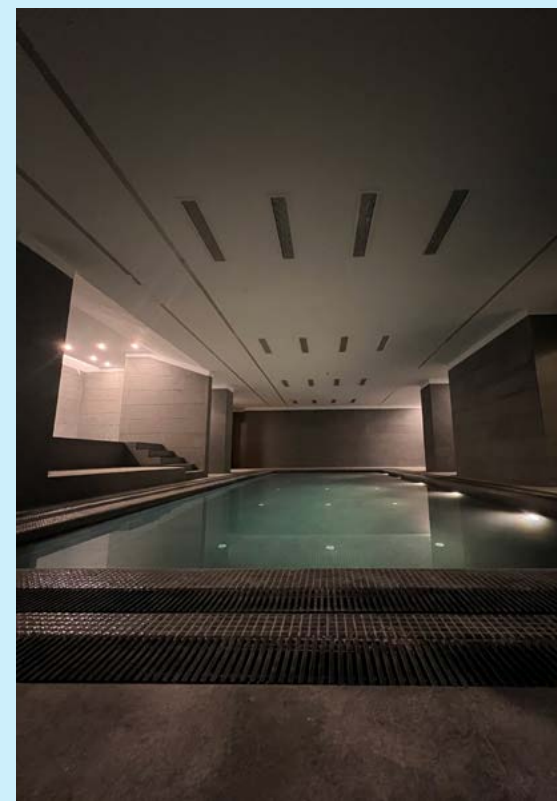
Public Aquatic & Wellness Facility – Basement Level –4

This section comprises a dry sauna, steam room, main pool, cold plunge pool, and hot tub, serving as the building's public aquatic facility. Due to the project's specific conditions and the facility being located below the mechanical room level, self-priming pumps were installed to ensure the optimal performance of the water circulation and filtration systems.

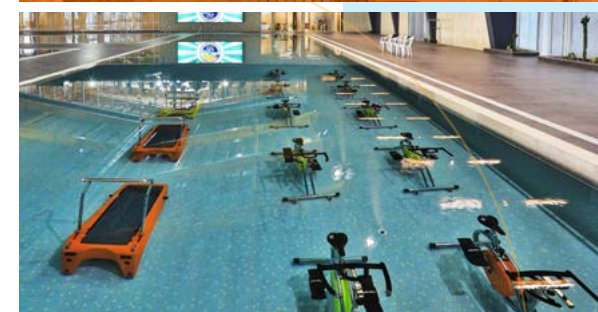
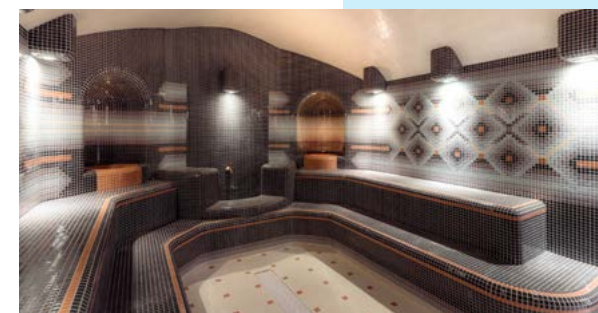


Private Aquatic & Wellness Facility – 11th Floor

This complex features a dry sauna and a hydrotherapy pool equipped with hydrotherapy jets, designed with a single-sided overflow that adds a unique and luxurious aesthetic to the space. Considering its location on a mid-level floor, inline pumps were used for the jet system to effectively minimize noise and vibration. Furthermore, due to the high sensitivity of constructing a water basin at this structural level, complete waterproofing was performed using fiberglass materials to guarantee maximum safety, durability, and structural integrity.



● ● ● **Aftab Sports Complex – Enghelab Sports Complex**
Phase I & II Design & Execution (2016 & 2020)



These major sports and recreational facility include a four-season outdoor pool, hot tub, indoor Olympic pool, kids pool, hydrotherapy pool, and aqua gym. Additional amenities include saunas, a cold spa, a gym, and restaurant. Advanced filtration and ventilation systems ensure comfort and prevent condensation on the large glass facades. All MEP works were designed and executed by Sedaye Ab Darya.

MODERN DESIGN

The Elahieh Project is recognized as one of the flagship developments of Deno Construction Company and prominent Iranian architect Faramarz Sharifi-Manesh. In this project, Seda-ye Ab Darya Company acted as the specialized vendor, undertaking the supply and execution of the swimming pool and hot tub systems.

The complex features an overflow swimming pool and hot tub designed in a modern architectural style. The overflow system was executed using a concealed (hidden) shared metal gutter, with the gutter cover clad in ceramic. The linear design of the gutters not only ensures precise technical performance but also creates a seamless, minimalist aesthetic within the space.

Another key feature of the project is the implementation of a smart electrical system for the integrated management of the aquatic facility's equipment. In addition, the dry sauna heater was supplied by Seda-ye Ab Darya Company.



SILENT LUXURY

Elahieh Project – Deno Company (2024) ● ● ●



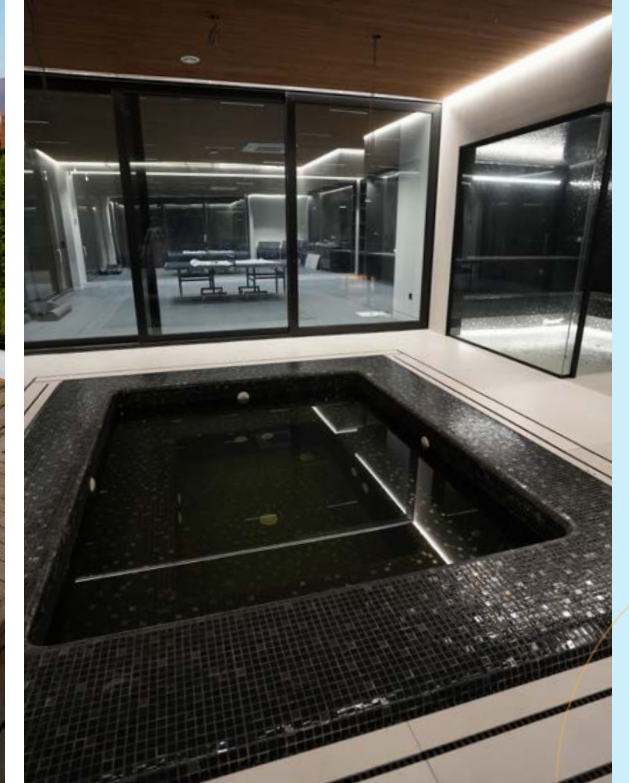
The pool was executed as a suspended structure on the ground floor, directly above the parking garage. Our scope covered fiberglass waterproofing, interior finishing, and full MEP design and installation. Due to the compact mechanical room footprint and high ceiling clearance, the filtration system was designed in a two-tiered configuration to optimize equipment accessibility and long-term maintenance.





Hasht Behesht Villa Project – Damavand (2026)

This project features an outdoor swimming pool, a cantilevered rooftop hot tub, and a lower-ground wellness suite comprising a hot tub, dry sauna, and steam room.



For the rooftop hot tub, a lightweight steel frame and fiberglass waterproofing were utilized to minimize dead load on the primary structure while mitigating noise and vibration transmission. To meet the client's requirement for rapid pool heating, the boiler, heat exchanger, and circulation pumps were precisely engineered to ensure the system reaches operating temperature in minimal time.

Shahid Hakim Swimming Complex Najaf, Iraq (2026)

The Shahid Hakim Swimming Complex, located in the city of Najaf, stands as one of the most modern and largest aquatic facilities in Iraq. S.A.D Group delivered a comprehensive range of specialized services for this project, including the design, execution, and supply of mechanical installation equipment, the design and construction of smart electrical control panels for the entire facility, and architectural consulting for the aquatic spaces. The project's smart system enables remote monitoring, fault diagnosis, and full control of all installations directly from the company's headquarters in Tehran.



Roozbeh School Camp Project

Jajrood (2026)

This 25m x 12.5m outdoor pool was designed and constructed for the Roozbeh School camp to serve students during the spring and summer seasons. Our scope encompassed the full MEP design and execution, with filtration, circulation, heating, and disinfection systems meticulously engineered to align with the facility's operational profile.

Given Jajrood's mountainous climate, characterized by significant day-to-night temperature fluctuations, and the young demographic of the users, precise temperature regulation and water quality maintenance were critical project imperatives. Consequently, the heating and disinfection systems were designed with accurate monitoring and control of water parameters to provide safe, stable, and suitable conditions for student use.



ONGOING PROJECTS

● ● ● **DidClub – Enghelab Sports Complex**
Largest Suspended Pool for Women (In Progress)

WELLNESS ENVIRONMENTS



This flagship project is the largest commercial outdoor four-season infinity pool in Iran, measuring 28 x 10 meters and built on the rooftop of DidClub. The complex includes a main pool, a shallow pool, a hot tub, a cold spa, and saunas. Sedaye Ab Darya is responsible for the mechanical design and execution of the filtration system, waterproofing with fiberglass coating, architectural consultation, and finishing works

Kerman Motor – Sports Complex (In Progress)



Adjacent to the Kerman Motor factory, this modern complex designed by Dr. Alireza Taghaboni features a 25x12.5-meter semi Olympic pool, kids pool, 12-person hot tub, cold spa, and saunas. Sedaye Ab Darya provides full design, equipment supply, and execution of the water filtration and disinfection systems.

Bonyad Maskan Swimming Pool (2026)

This flagship project included architectural consulting, revision of the pool layout, full mechanical and electrical systems design, and equipment supply by Sedaye Ab Darya.

In the client's initial concept, a single very large pool basin had been proposed, which did not align with the actual operational needs of the facility. Therefore, based on analyses of space

utilization as well as water and energy consumption, it was recommended that the large basin be divided into several independent pools. Ultimately, the complex was executed with a main pool, a therapy pool, a hot tub, and a cold plunge pool, resulting in increased added value and improved operational quality.



The design of the HVAC system was also carried out to ensure optimal control of heating and humidity levels within the facility. Due to the cantilevered structure of the pool, fiberglass waterproofing was professionally implemented by Sedaye Ab Darya to provide durable and reliable long-term watertight performance.

This optimization-driven approach, combined with precise technical execution, has made the project one of the company's notable references in the field of aquatic facility development.





● ● ● Noor Hospital – Qom
Hospital Pool (In Progress – Started 2023)

Located on the third floor of the hospital's recreation wing, this facility offers panoramic views through tall glass walls. The 14x8-meter main pool, 6-person hot tub, and saunas are supported by complete mechanical and electrical systems designed and executed by Sedaye Ab Darya, including the supply of all specialized equipment.



SILENT
LUXURY

Azarestan Construction Company Raman Mansion Project

In this project, an independent steel frame was constructed atop the primary building structure on the first floor to decouple the aquatic shells from the building's main frame. This technical measure isolates the pool and hot tub from potential structural stress and building movement, significantly enhancing the safety and longevity of the installation. To further ensure structural integrity and complete waterproofing, all basins were lined with a specialized fiberglass coating.

The facility comprises a dry sauna, steam room, swimming pool, and hot tub, serving as a comprehensive wellness and athletic suite.



Venus Mall Sports Complex Public Pool within Commercial Center (2019–2026)

At 30 meters above ground, the cantilevered pool of Venus Mall combines advanced design with specialized technical execution. The complex includes a swimming pool, hydrotherapy pool, hot tub with cold waterfall, saunas, traditional Turkish bath, massage rooms, and a gym. As the main sports facility consultant, Sedaye Ab Darya oversees architectural coordination, full MEP design and execution, and fiberglass waterproofing.

LUXURY RETREAT



SUSTAINABLE DESIGN



Khorramabad Resort Hotel

Nestled in the lush natural landscape of Khorramabad, this hospitality complex features hillside accommodations overlooking an artificial lake and central swimming pool. At the heart of the resort lies a striking 1,350–square–meter open–air pool surrounded by the lake, serving as the resort’s signature architectural centerpiece.

Given the substantial water volume and the client’s requirement for year–round, all–season operation of an outdoor pool, maintaining optimal water temperatures amid variable mountain climatic conditions posed a major engineering challenge. Through comprehensive thermal load calculations, surface evaporation modeling, and operational scenario assessments, an optimized heating and filtration system was engineered to ensure sustainable, energy–efficient, and cost–effective continuous operation.

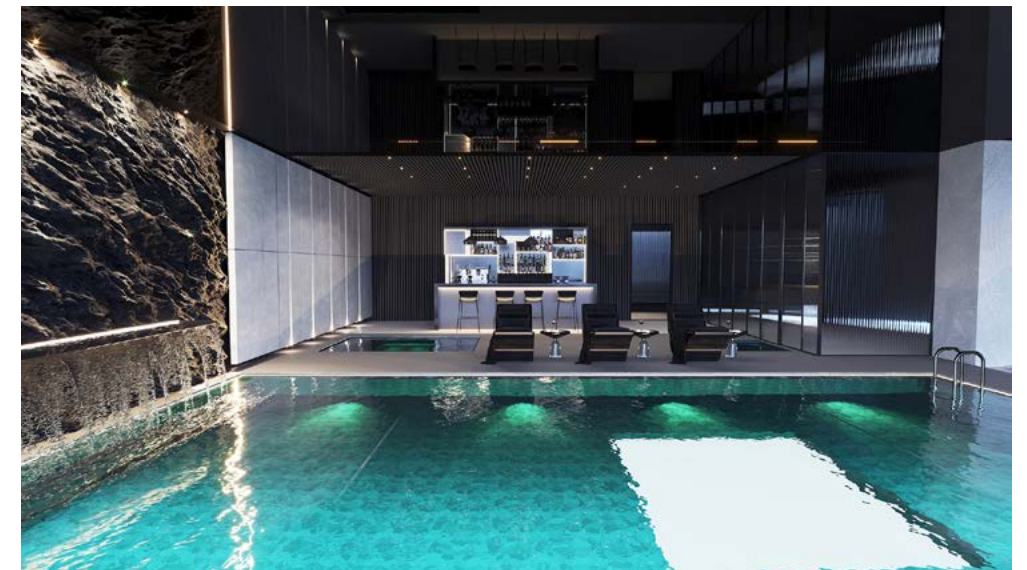
Another standout feature of the project is a roughly 30–meter–long curved structural glass wall along the pool perimeter facing the lake. This element not only creates an exceptional visual immersion but also demanded rigorous engineering solutions to manage hydrostatic pressure, specialized acrylic/ glass waterproofing interfaces, and complex structural detailing.

Sedaye Abe Darya proudly undertook the MEP engineering design and consultancy, specialized procurement of prime equipment and materials, and end–to–end execution of all mechanical and electrical installations.



Atlantis Residential Tower Pools – Kish Island

This project comprises two separate pools for men and women, designed as cantilevered structures connecting the tower's two main blocks. Both the pools and the mechanical room are situated on the 11th floor, demanding specialized structural and MEP considerations.



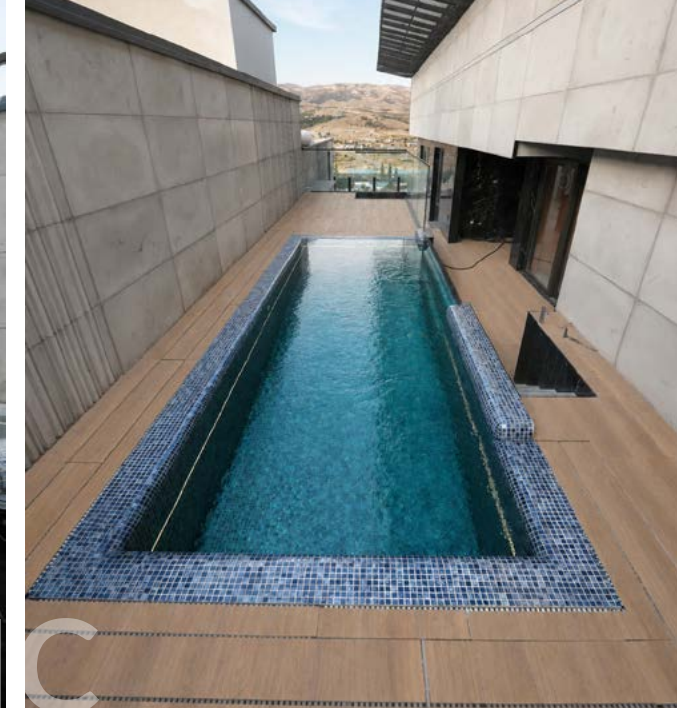
The pool basins were constructed with a steel framework followed by concrete casting. Portions of the basin floors feature structural glass panels, creating a striking architectural element while requiring extreme precision in waterproofing and structural calculations. Sedaye Abe Darya served as the specialized consultant responsible for the mechanical design. For basin waterproofing, a polyurea coating was implemented. Due to its superior mechanical strength and elasticity compared to fiberglass, polyurea provided the optimal solution to accommodate structural deflections in this elevated installation.

Behsaz Andishan Construction Co.

Nowshahr Project

The initial design was revised to reconfigure the basin into an infinity pool with a single-sided overflow weir, forming a central architectural feature of the estate.

A hot tub was later integrated into the facility. For water disinfection and quality control, a saltwater chlorination system was implemented for the pool, complemented by a dedicated water analyzer for the hot tub.



HOLISTIC RELAXATION

Raspina Towers Penthouse Pools – 19th Floor | Torbat Pak Company

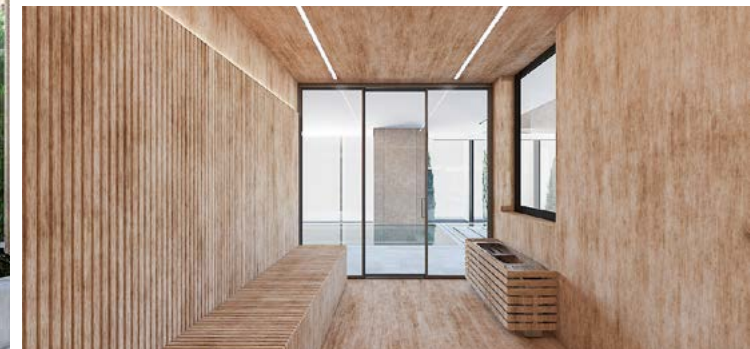
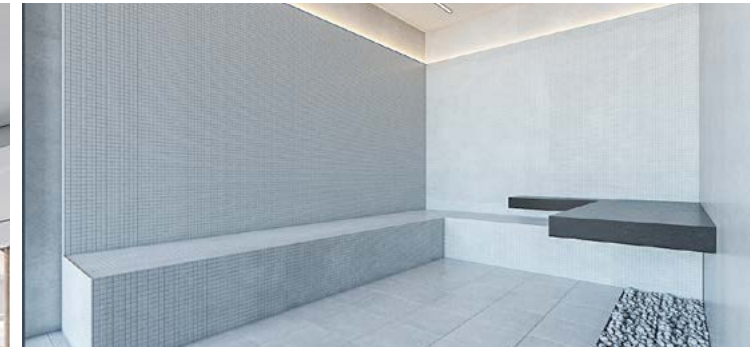
The project features two private swimming pools situated on the 19th-floor penthouse terraces of Raspina Towers. Due to their elevated location, the pool basins were constructed with independent steel frameworks structurally decoupled from the main building frame and waterproofed using a specialized fiberglass lining system.

Positioned at this altitude, mitigating structural deflections, dynamic stresses, and vibrations posed key engineering challenges. Furthermore, given the pools' proximity to residential spaces, the plant room and equipment were designed with particular emphasis on reducing noise and vibration transmission.

To compensate for the basin's compact length and enable continuous, in-place swimming, counter-current swimming system was integrated. Additionally, taking advantage of the elevation difference between the water level and the terrace deck, a 3-meter structural glass viewing wall was incorporated, creating an iconic architectural visual while providing direct underwater visibility.

Behesht Niatous Tower
Elahiyeh, Tehran (In Progress)

At a height of 50 meters, two infinity pools are being constructed for the tower's shared areas, along with four private penthouse pools. The use of lightweight steel and fiberglass structures minimizes structural load while enabling creative architectural forms. Sedaye Ab Darya is responsible for full MEP design and implementation.



Temporal Pixel Project – Velenjak

Architectural Technology Company

The Temporal Pixel project is another landmark development by architect Hamidreza Rahmani. For this luxury residential complex, Sedaye Abe Darya was responsible for the detailed design and engineering of the main swimming pool, hot tub, dry and steam saunas, decorative water features, and a shallow rooftop plunge pool.

In a pioneering effort to elevate the wellness and spa experience, our team proposed the addition of a Vichy Shower suite (a treatment with roots in elite European thermal spas). Following approval, and to address the complex physical and mechanical constraints of the site, we executed the bespoke, integrated engineering of the mechanical, electrical, and architectural infrastructure for this space, ensuring optimal operational efficiency, safety, and finish quality.



Roya Residence Towers – Namak Abroud

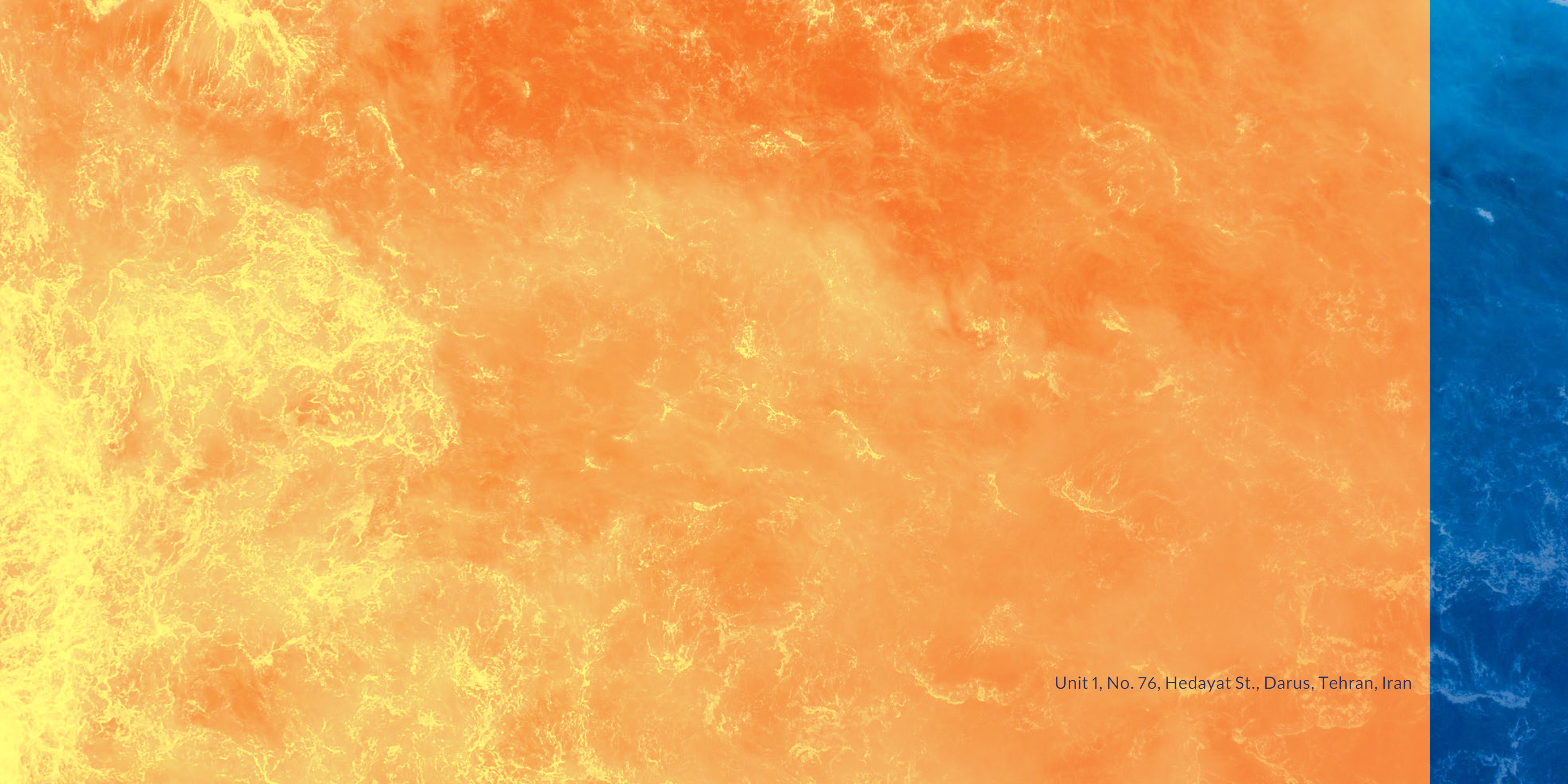
Design & Execution of High-Rise Infinity Pools (In Progress)

Sedaye Ab Darya is responsible for the design and construction of Iran's highest infinity pools, located 127 meters above ground at the luxurious Roya Residence Towers. Combining modern architecture with advanced engineering, this project offers a unique experience of swimming at altitude and stands as a symbol of innovation and bold design in high-rise pool construction. State-of-the-art technology and precise engineering ensure the safety and water quality of the entire complex.

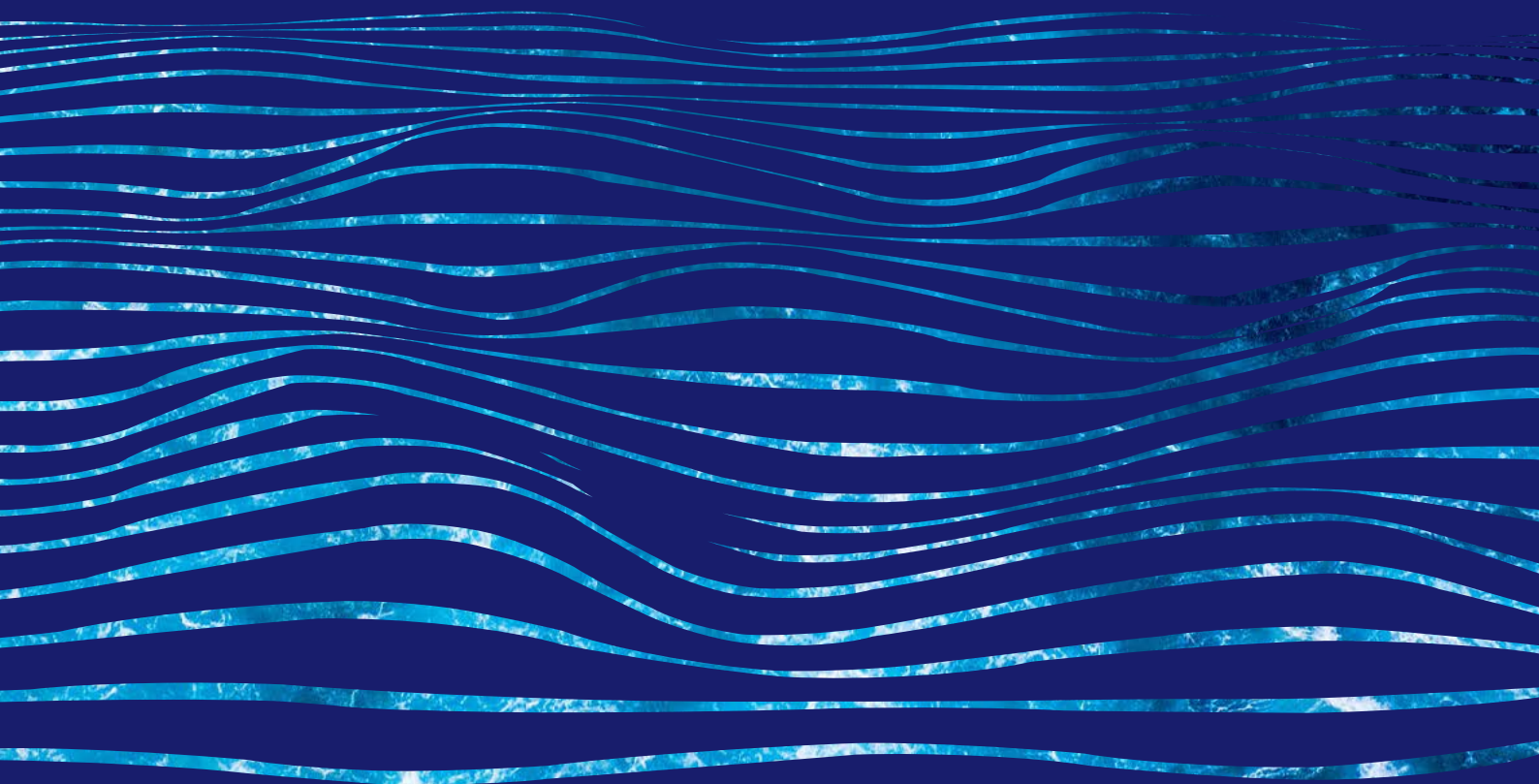


OTHER MAJOR PROJECTS

- Design, construction, and maintenance of the Sepidar Pool (Army)
- Design and execution of the filtration system at Tarbiat Modares University
- Renovation and maintenance of the Talash Cultural & Sports Complex pool (Ministry of Labor)
- Design and execution of pool systems at the Salam Building (Presidential Residence)
- Design and execution of pool systems at the Baran Sports Complex, Marvdasht
- Design and execution of smart control systems for pool filtration and disinfection at Langarud University
- Design and execution of mechanical and electrical systems for the Sahih Al-Nasab Construction Group pools
- Design and execution of mechanical and electrical systems at the Khatam Health Hospital (Azarestan Construction Group, Qom)
- Design and execution of smart control systems for filtration and disinfection at the Someh-Sara fish farming project
- Design, supervision, and execution of mechanical systems for the Ekram Baran Rahmat Charity building and pool
- Review and execution of mechanical and electrical systems for the twin pools at the Islamic Republic of Iran Shipping Lines (IRISL) Sports Complex



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