



BLUE  
DIAMOND

# BLUE DIAMOND

*PURE WATER, PURE LIFE*

Engineering services for water station



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## ABOUT US



Established in 2018, Blue Diamond focuses on delivering sustainable water treatment and desalination solutions that ensure clean and accessible water for communities, industries, and tourism services. With our proficiency in water desalination, wastewater treatment, and advanced operation and maintenance services, we are dedicated to excellence in every project we undertake. Our team of seasoned professionals merges technical expertise with a profound understanding of the environmental challenges confronting our region, offering innovative and dependable solutions to each client we serve.

At Blue Diamond, we prioritize the establishment of enduring partnerships founded on trust and shared success. Our services are tailored to address the varied requirements of urban communities, commercial enterprises, tourism, and industrial services, all while upholding the highest standards of quality and operational efficiency. We are dedicated to delivering solutions that fulfill contemporary demands while also fostering a more sustainable future.





## WELCOME MESSAGE

At Blue Diamond, we hold the conviction that clean water possesses the ability to transform lives, industries, and communities.

Since our inception, we have remained dedicated to delivering innovative, cost-effective, and sustainable water treatment solutions in Egypt and beyond.

Drawing on our expertise in water desalination and purification, wastewater management, and operation and maintenance services, we strive to establish a benchmark for reliability and quality across all our endeavors.

As you navigate this profile, you will uncover our dedication to excellence, our commitment to environmental stewardship, and the extensive expertise that propels us onward.

We appreciate your time in learning about Blue Diamond, as we are dedicated to creating a sustainable impact through clean water and environmental solutions.

# VISION & MISSION



## Vision

At Blue Diamond, our vision is to spearhead sustainable water solutions, empowering communities and industries globally with access to clean, reliable, and affordable water. We aspire to be a trusted partner in water desalination and treatment, characterized by our dedication to quality, innovation, and environmental supervision. Through ongoing technological advancements and a commitment to eco-friendly practices, we seek to establish new benchmarks in the water industry, ensuring a future where clean water is accessible to all.

## Mission

As we progress, our mission remains unwavering: to empower communities, industries, and individuals by providing access to clean, safe water through our exceptional services. At Blue Diamond, we do not merely tackle water challenges; we are committed to creating a future where clean water is accessible to everyone. Join us on this journey toward a more sustainable and water-secure world.



# OUR SERVICES



- 1- Design and construction of seawater desalination Plants.**
- 2- Design and Construction of Water Treatment Plants.**
- 3- Design and Construction of Wastewater Treatment Plants.**
- 4- Operation and Maintenance services.**
- 5- Maintenance services.**
- 6- Design, construction, supply, and installation of water transmission pipelines.**
- 7- Well drilling.**
- 8- Electromechanical Services.**
- 9- Supplies Services.**





## **I. Design and construction of desalination plants.**

**Blue Diamond provides integrated water desalination solutions utilizing reverse osmosis (R.O) technology, which effectively removes salts and impurities with exceptional efficiency. We develop tailored solutions that address the diverse needs of our clients, and we are dedicated to employing environmentally sustainable construction practices and comprehensive project management, from planning through implementation, to guarantee timely delivery and the highest quality standards.**

### **Projects**

#### **Al Baker Resorts and Marina Company, located in Marsa Alam.**

Design and construction of a reverse osmosis (RO) desalination plant with a production capacity of 500 cubic meters per day in Marsa Alam, Red Sea.



#### **Packt Company for Investment and Real Estate Development.**

Design and construction of a reverse osmosis (RO) desalination plant with a production capacity of 500 cubic meters per day along the North Coast.



#### **Marseilia Egyptian Gulf Real Estate Investment Corporation.**

Design and construction of a reverse osmosis (RO) desalination plant with a production capacity of 750 cubic meters per day on the North Coast.



## Scientific Center for Industrial Services.

Design and construction of a reverse osmosis (RO) desalination plant with a production capacity of 500 cubic meters per day.



## Ministry of Defense.

Design and construction of a reverse osmosis (RO) desalination plant with a production capacity of 500 cubic meters per day in Port Said.



Installation and construction of a reverse osmosis (RO) desalination plant with a production capacity of 300 cubic meters per day in Barani City, Marsa Matrouh.



## El Taweel yacht.

Design and construction of a desalination plant with a production capacity of 20 cubic meters per day in Yacht El Taweel 2.





## **II. Design and construction of water treatment plants**

**Blue Diamond provides a full spectrum of services in designing and constructing water treatment plants, employing cutting-edge technologies that merge high efficiency with minimal operating costs. Our systems utilize Ultra Filtration (UF), a highly effective method for eliminating suspended solids, bacteria, and viruses, thereby ensuring the production of water of significantly superior quality compared to conventional systems.**

**Additionally, we provide sand filtration technologies designed to eliminate turbidity and suspended particles, along with Iron and Magnesium removal systems that utilize air oxidation and filtration. These systems are not only efficient in enhancing water quality but also function at low operational costs, rendering them the optimal choice from both economic and environmental perspectives.**

**We are dedicated to delivering solutions customized to address customer needs, emphasizing efficiency and sustainability, while ensuring adherence to the highest quality standards and regulations, and minimizing energy consumption and costs.**

### **Projects**

#### **A: Design and construction of sand filtration treatment units.**

##### **Al Baker Resorts and Marina Company, in Marsa Alam.**

Design and construction of a sand filtration purification units with a production capacity of 1,500 cubic meters per day in Marsa Alam city, Red Sea.

##### **Packt Company for Investment and Real Estate Development.**

Design and construction of a sand filtration purification units with a production capacity of 1,500 cubic meters per day in the North Coast.

##### **Marseilia Egyptian Gulf Real Estate Investment Corporation.**

Design and construction of a sand filtration purification plant with a production capacity of 2,250 cubic meters per day in the North Coast.

## **B: Design and construction of Ultra-Filtration (U.F.) treatment plants.**

### **Drinking Water Company in Fayoum Governorate**

Establishing a treatment plants with a production capacity of 1,000 cubic meters per day in Fayoum Governorate.



### **Drinking Water Company in Gharbia Governorate**

Enhancing the efficiency of drinking water purification Plants and eliminating Iron and Magnesium. The effectiveness of sand filtration has also been improved in the villages of Sharshaba, Sandbast, Mit al-Rakha, Farsis, and Zifta in Gharbia Governorate, achieving a production capacity of 9,600 cubic meters per day.



### **Al Agaiby Farms in Borg Al Arab.**

Design and construction of an ultra-filtration purification plant with a production capacity of 4,500 cubic meters per day in the Borg El Arab, Alexandria.



### **Al-Adly Group Farm in New Alamein.**

Design and construction of an ultra-filtration purification plant with a production capacity of 15 cubic meters per day in the New Alamein.





### III. Design and construction of wastewater treatment plants.

Blue Diamond provides expert services in the design and construction of wastewater treatment plants, delivering efficient and sustainable solutions for wastewater reuse and treatment. Our plants are engineered to comply with rigorous regulatory standards, while conserving natural resources and fostering environmental sustainability by transforming wastewater into a valuable asset. We guarantee superior operational efficiency at reduced costs relative to traditional systems, while generating high-quality water suitable for various applications. Our designs prioritize precise alignment with customer requirements, leveraging advanced technologies that optimize performance and promote environmental sustainability.

#### Projects

### Ministry of Military Production.

Design and implementation of seven sewage pumping stations in Damietta for the Ministry of Military Production.





## IV. Operations and Maintenance

Blue Diamond offers a full spectrum of services for the operation and maintenance of desalination plants, wastewater treatment systems, and advanced filtration technologies. We depend on preventive maintenance strategies and prompt responses to malfunctions to guarantee the sustained operation of the plants with optimal efficiency.

Services include:

- 1-Manage day-to-day operations to ensure optimal performance.
- 2-Preventive maintenance to minimize breakdowns.
- 3-Improve performance and provide technical consulting.
- 4-Accurate and safe use of chemicals to ensure water quality and equipment protection.
- 5-Monitoring and reporting

With our outstanding expertise, we ensure high and sustainable O&M solutions that meet the needs of our customers.

### Projects

#### Marseilia Egyptian Gulf Real Estate Investment Corporation.

- **Marseilia Beach 2**

Operation and maintenance of a desalination plant utilizing reverse osmosis technology, with a production capacity of 500 cubic meters per day in North Coast.

- **Marseilia Beach 4**

Operation and maintenance of a desalination plant utilizing reverse osmosis technology, with a production capacity of 3,250 cubic meters per day.

- **Marseilia, Alm El Roum**

Operation and maintenance of a desalination plant utilizing reverse osmosis technology, with a production capacity of 500 cubic meters per day.



#### Al Baker Resorts and Marina Company in Marsa Alam.

Operation and maintenance of a desalination plant utilizing reverse osmosis technology, with a production capacity of 500 cubic meters per day.

### **Al Agaiby Farms in Borg Al Arab.**

Operation and maintenance of a desalination plant utilizing reverse osmosis technology, with a production capacity of 750 cubic meters per day.



Operation and maintenance of a treatment plant utilizing ultrafiltration technology, with a production capacity of 4,500 cubic meters per day.



### **Eagles Resort in Marsa Matrouh.**

Operation and maintenance of desalination plant utilizing reverse osmosis technology, with a production capacity of 600 cubic meters per day.



### **Packt Company in Sidi Hanish.**

Operation and maintenance of a desalination plant utilizing reverse osmosis technology, with a production capacity of 500 cubic meters per day.



### **Borg El Arab Dyeing and Textile Corporation.**

Monitoring of the operation and maintenance of a desalination plant utilizing reverse osmosis technology and a treatment plant with ultrafiltration technology.



## **V. Construction, provision, and installation of water transmission pipelines.**

**Blue Diamond offers comprehensive services for supplying, constructing, and installing water and sewage networks with a high level of quality and efficiency. These services include designing and installing water lines and sewage networks tailored to the needs of various projects, whether residential, tourist, commercial, or industrial. Our services include:**

- 1. Supplying, constructing, and installing sewage lines: We supply and install sewage lines over long distances to meet the needs of different projects, ensuring the highest standards of quality and efficiency in execution.**
- 2. Supplying, constructing, and installing water lines: We specialize in designing and implementing water lines that extend over large distances, which helps improve water distribution effectively for various uses.**
- 3. Upgrading lift station networks: We provide solutions to update and improve lift station networks, including replacing old systems with more efficient ones to ensure continuous and effective operation.**

**We are committed to providing innovative and high-quality solutions for all water and sewage infrastructure needs.**

### **Projects**

#### **1- Marseilia Egyptian Gulf Real Estate Investment Corporation.**

Supply, construction, and installation of a 100-meter sewage pipeline.

#### **2- Packt Company in Sidi Hanish.**

Supply, construction, and installation of a 450-meter water pipeline.

#### **3- Stella Egypt.**

Modification of the primary water pumping station network for a resort in the Fifth Settlement of Cairo.



## VI. Well Drilling

Blue Diamond provides specialized groundwater well drilling services using the latest technology to ensure efficient and accurate water extraction. We rely on advanced geophysical studies to determine optimal drilling sites, and analyze geological layers to estimate the available quantities and quality of water.

The stages of work include:

### 1- Drilling wells.

- Implement well drilling using advanced equipment to ensure the safety of geological formations.
- Apply techniques that prevent the intrusion of impure water into the groundwater source.

### 2- Water Test.

- Chemical and mineral analysis of the extracted water to ensure that it conforms to the required standards.
- Ensure water quality for agricultural, industrial, or drinking uses.

### 3- Design and installation of pumping systems

- Designing water pumping systems with high efficiency commensurate with customer needs.

Advantages of our services:

- Use accurate scientific techniques to reduce costs and increase drilling efficiency.
- Compliance with environmental specifications and international standards.
- Tailor-made solutions to meet the needs of different projects.

We aim to make the most of underground resources sustainably, while ensuring the quality and efficiency of work on each project.

### Projects

#### Drilled three water wells in Sidi Hanish, Marsa Matrouh.

- Two water wells.
- One drainage well.



## VII. Maintenance Operations

Blue Diamond offers specialized services in the maintenance and efficiency enhancement of water treatment and desalination plants, along with sewage systems and pumping equipment. We rely on a professional team and advanced technologies to ensure the systems operate efficiently and continuously, focusing on performance improvement and cost reduction. Our services include pump repairs, plant upgrades, and the installation of modern control systems, which help meet customer needs according to the highest standards.

### Projects

#### 1. Enhancing the efficiency of stations:

- Eagles Resort, Marsa Matrouh. Enhancing the efficiency of a water treatment plant with a capacity of 300 m<sup>3</sup>/day.
- Marseilia Company: Transfer and enhancement of two desalination plant with capacities of 500 m<sup>3</sup>/day and 750 m<sup>3</sup>/day.

#### 2. Mechanical maintenance:

- Mechanical maintenance of lifting pumps, including motor rewinding, at the General Authority for Industrial Development.
- Maintenance of high-pressure pumps and multimedia filters in a 300 m<sup>3</sup>/day water desalination facility at Eagles Resort in Marsa Matrouh.
- Mechanical maintenance of a 350 kW generator for East Gas Petroleum Company.

#### 3. Sewage station maintenance:

- Maintenance of sewage stations at the General Authority for Industrial Development.
- Enhancing the efficiency of a sewage station at Eagle Resort, including pumps, electrical panels, and lighting units.
- Dismantling, transporting, and storing a U.F. station with a capacity of 2000 m<sup>3</sup>/day for the Scientific Center for Industrial Services.

## VIII. Electromechanical Services

Blue Diamond Company provides integrated solutions in electromechanical works to ensure the efficient and sustainable operation of water treatment and desalination plants. Our services include the installation and maintenance of pumping stations, control and automation systems, and electrical panels, in addition to the installation and maintenance of mechanical equipment according to the highest standards. We implement preventive and corrective maintenance programs to ensure optimal performance, with a focus on smart energy control and improving operational efficiency. Thanks to our commitment to quality and safety, we ensure the sustainability of the infrastructure for the water and industrial sectors.

### Projects

#### 1- Drinking Water and Wastewater Company of Al-Sharqia Governorate:

Installation of feed pumps, a lifting station, and control panels for the U.F station with a production capacity of 26,000 cubic meters per day has been completed in the Tal Rak area of the Sharqia Governorate.



#### 2- Drinking Water and Wastewater Company of Al-Gharbia Governorate:

Enhancements in electromechanical systems have significantly improved the efficiency of drinking water purification plants, particularly in the removal of iron and magnesium. Upgrades include optimizing sand filtration performance and modernizing pumping and control systems, ensuring higher operational reliability. These improvements have contributed to achieving a production capacity of 9,600 cubic meters per day.



#### 3- Ministry of Military Production:

Electromechanical installations for 7 wastewater treatment plants in Damietta Governorate.





## IX. Supply Services

Blue Diamond provides an extensive array of equipment and material supply services for diverse projects within the water and wastewater sectors. Our dedication to delivering high-quality products enables our clients to enhance operational efficiency and ensure project sustainability by supplying the appropriate equipment that meets the highest standards.

### Projects

#### 1. Supply of Well Pumps:

Supply of 6 well pumps for Marsilia Company.

#### 2. Supply of Control Panels:

Supply of a control panel for 3 pumps of 2 horsepower for Al-Nada Contracting and Trading Company.

#### 3. Supply of VFD Devices:

11 VFD devices with different loads for the Scientific Center for Industrial Services were supplied.

Supply of a 160 kW VFD device for a desalination station for Marsilia Company.

#### 4. Supply of Hoses and Spare Parts:

Supply of well hoses for 2 pumps for Marsilia Company.

Supply of high-pressure pump spare parts for Marsilia Company.

#### 5. Supply of Chemicals and Filters:

Chemicals and cotton filters were supplied for the Eagles Resort in Matrouh.

#### 6. Supply of Air Pumps:

16 Italian air blowers were supplied for United Contracting and Trading Company.

#### 7. Supply of Connectors and Pipes:

Supply of connectors, pipes, and special cast iron fittings for the Ministry of Military Production.

#### 8. Supply and Installation of Membranes:

Supply and installation of membranes for Al-Baker Resorts.

## Eng - Mohammed Khalil

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The Chairman of the Board has over thirty years of experience in the fields of water, sewage, and desalination, bringing a wealth of knowledge to Blue Diamond Company. He has held senior positions, including General Manager of Desalination at the Water and Sewage Company in several major Egyptian governorates, such as the Red Sea and Matrouh. Internationally, he served as the Operations and Maintenance Manager in Muscat, Oman, where he oversaw critical infrastructure. He also managed projects at a global company specializing in ultra-filtration systems and served as a project manager at a leading German pump manufacturer Company.

## Eng - Mina Issa

*CEO & Co-Founder*

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He graduated from the Faculty of Engineering at Alexandria University with a specialization in Mechanical Engineering, and our CEO has over 12 years of experience in the fields of maintenance, water desalination, sewage, and water treatment. He previously held the position of Maintenance Manager (Mechanical and Electrical) for the Mobile Networks Division at one of the leading multinational company, and Maintenance Manager for the Water Desalination Sector at the Matrouh Water and Sewage Company. As the CEO of Blue Diamond, he leads the company with a focus on operational excellence and sustainable water management solutions.

**Today, they head the Blue Diamond team dedicated to excellence and sustainable water solutions.**



**BLUE DIAMOND**

***PURE WATER, PURE LIFE***

**OUR CONTACT**



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