

# RAYNED WATER DEVELOPMENT



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GRP Water Tanks | Water Treatment Equipment's | Solar Water Heaters | Heat Exchangers

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## About Us

*Rayned has been providing water treatment solutions for over 15 years. We are a vibrant and innovative water technology company with a singular focus on helping to solve the GCC's most pressing water challenges. Our success is grounded in more than 15 years of water technology leadership.*

*Rayned is a major **and** corporate entrant in the GCC territory. But, its professional management and engineering expertise are proficiently established*

*We are dedicated to encompass state of the art water processing technology to serve the wide range applications of Government, Residential, Commercial and Industrial Water treatment system. Our broad product range includes Numerous Water treatment equipment's like UV Sterilizers, Water Softeners, Grey water System, Reverse Osmosis Systems and many other replacement products and accessories.*

*Rayned WD is an ISO certified (ISO 9001-2008, ISO 14001-2004 & OHSAS 18001-2007). Company is considered as an industry leader in filtration products and its line of products have earned a wide reputation for high quality and superior performance & is the sole/exclusive agent for all range Rayned USA products in GCC & Middle East Countries.*

*Rayned 's Responsive Engineering and Marketing services are key assets in providing greater timely services to our honorary customers and consumers. With greater strategic focus than ever before, a strong and experienced leadership team, a high-performance company culture and a clear plan for short- and long-term growth globally, we are building on the strength of our history to deliver a higher level of customer service, innovation and value — today and well into the future.*





*Commitment to Excellence:*

*We are a leading designer and manufacturer of water filtration system, quality Replacement Filter Cartridges, Water Softeners, UV Sterilizer, grey water systems and RO plants. We are committed to producing the **world's** best, most cost-effective, inline water filter. To that end, we spend hundreds of thousands of dollars and countless hours every year on in-house testing, independent verification and quality control. We manufacture our filter vessel products within NSF Standard.*

*Commitment to Our Customers:*

*We recognize that our success is dependent upon a solid relationship with our customers and want to assure every client of our resolve to provide support and assistance. One call to us and your company has access to an expert team of top-notch engineers, production supervisors, marketing professionals, and sales professionals. Our staff stands ready to assist you in design, distribution, marketing and promotion of existing or custom produce products. Call us today and let us tell you why Rayned*



**“Rayned”** - Your Innovative Partner for Sustainable Solutions in Water Treatment

## Our Mission

*“Rayned is dedicated to provide innovative water solutions to the market. We will continue to develop our product positioning, to maintain and to grow our solid product recognition and to meet high standards & to provide chemical free, environmentally friendly, high quality water treatment devices and systems resulting in 100% customer satisfaction, while also exceeding the expectations of employees, community and other industry professionals”.*

A large, semi-transparent globe is positioned on the left side of the slide. It shows the continents of North and South America in a light green color. The globe is set against a background of a blurred, natural landscape with green foliage and a bright sky.

## Our Vision

*To be one of the leading distributors of water systems within the GCC & Middle East countries by providing high quality, reliable & cost effective products to its clients & the most technically knowledgeable, cost effective, reliable and responsive professionals in our industry.*

# List of Registrations



*With Valid ICV Certification Valid  
Till 29<sup>th</sup> Jan 2023*



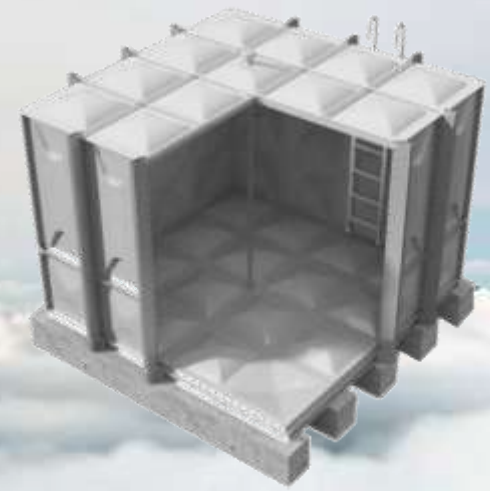
مواصلات الإمارات  
Emirates Transport



# What We offer

**Rayned** provide cost-effective and quality solutions with design and build systems that cover a wide variety of technologies such as:

Item	Brand	Origin
Water Filtration System UV Sterilizer Copper Silver Ionizer Water Softener	Rayned	USA
Grey Water Plant & RO Plant	Rayned	Int'l
Cooling / Heat Pump	Aquacal	USA
Water Cooler Drinking Fountains	Rayned	Int'l
Solar Water Heater	Rayned	Europe/ Int'l
Thermodynamic Solar Energy	Energie	Portugal
GRP Sectional Water Tank	Multank	South Korea



# Product & Membership Certificates



# ISO Certificates



**Rayned Multi-Media Filters**

**Rayned'** Commercial Sediment Filters are built utilizing Filter Sand, Anthracite filter media. These filters are designed to remove ferric iron, silt, and turbidity. Sediment filtration down to the 10 micron level is common.

**Rayned Sand Filters**

**Rayned'** Commercial Sediment Filters are built utilizing Sand filter media. These filters are designed to remove turbidity. Sediment filtration down to the 10 micron level is common.

**Rayned AG Filters**

**Rayned'** are built utilizing Ag filter media. Filter-Ag granules have irregular surface characteristics allowing maximum removal of suspended matter throughout the filter bed. Filter-Ag can be used in either pressure or gravity flow filter systems. It typically removes normal suspended solids ferric iron, silt, and turbidity down to 10 micron ranges.

**Rayned Water Softeners**

**Rayned'** Commercial Softener filters are built utilizing Resin as the primary layer. These cationic ion exchange systems are designed to remove calcium and magnesium (hardness), and a host of other cations from the water.

**Rayned Carbon Filters**

**Rayned'** Commercial carbon filters are built utilizing Activated Carbon. The carbon filter is for treating city water and is great for removing taste, odor, chlorine and other contaminants such as lead, copper, heavy metals, gases, pesticides and herbicides from the water.

**Rayned Birm Filters**

**'Rayned'** Iron filters using Birm Media utilize dissolved oxygen in the water to help oxidize iron so the Birm can remove more efficiently, Birm is an efficient and economical method of removing dissolved iron and manganese compounds from raw water supplies.





**Rayned Composite Vessels**

**'Rayned'** Composite pressure vessels offer composite fiberglass construction for outstanding performance and durability in harsh chemical environments. With capacities up to 2500 gallons and a variety of options, we can tailor a vessel to meet your needs. All Rayned Composite vessels are warranted for 5 years.

**Rayned Stainless Steel Vessels**

All tanks have two large top and bottom access opening to simplify distributor system assembly. **'Rayned'**, Steel or Stainless steel tanks are UL classified for drinking water system components in accordance with standard ANSI/NSF 61-(1992) 7N44. In addition, all standard tanks feature two fpt x fpt full couplings located at the topside wall and center bottom of the tanks. All tanks larger than 36" in diameter have a manway w/cover, and a top center spud to bleed air. These tanks are durable, rust proofed, and built to last.



**Rayned Automatic Control  
Valves & Filter Accessories**



**Click Valve 1.25"**



**Click Valve 1.5"**



**Click Valve 2"**



**Click Valve 3"**



**Click Valve Accessories**



**Bottom Distributors**



**Top Distributors**



**Riser Pipes**

### Rayned, Slim Line , Big Blue Housings Filter Housings

`Rayned' filter housings are available in either reinforced polypropylene or clear Styrene- Acrylonitrile (SAN) in 5", 10" and 20" lengths. Different types of Rayned Filter Housings are: Clear Slim Line Filter Housings, Opaque Slim Line Filter Housings, Big Blue Filter Housings Etc.

### Rayned, Stainless Steel Filter Housings

**Rayned'** Heavy Duty design for residential, commercial, and industrial applications for food industry and high temperature applications, and accept all standard size replacement cartridges. Multiple cartridge units all AISI 304 or 316 brushed stainless steel or electro polished finishing for high flow rates, high tempera true and long life. All models available with vents and drains for easy cartridge change.

### Rayned, UPVC Filter Housings

**Rayned'** UPVC High Pressure Cartridge Filter Housings have excellent anti-corrosion ability because parts that have contact with process fluids are made of UPVC. Compared with products made of stainless steel in the same dimensions, the UPVC cartridge filter housings prevail of lightness, low cost and rust free.

### Rayned, Kitchen Filters

**Rayned'** High Flow Drinking Water Systems – Kitchen Filter Series provides 3-7 Gpm of filtered water. The Different types of series consists of Single Stage, Double Stage, Triple Stage & 4 Stage c Filtrations system which will included with UV Sterilization unit. A single stage process removes sediment, treats for taste & odor improvement, and is also capable of eliminating high levels of chlorine.



### Water Cooler Fountain

#### Features of Water Coolers

Our self contained electrically refrigerated wall hung water cooler has a Chilling capacity of 50°F drinking water, based upon 80°F inlet water and 90°F ambient. Unit is operated by Easy-touch controls on front both right and left sides. Drinking Fountains are manufactured with a waterway system utilizing copper components and completely lead-free material. These waterways have no lead because all leaded materials, such as leaded brass, have been removed.

- Stainless Steel Body Work.
- Rust Proof hygienic chrome plated accessories
- Fan cooled condensing unit with copper tube/aluminum finned condenser coil
- Tropicalized cooling performance
- Environment friendly construction & performance.



**Water Cooler Fountain**

### Residential Water Dispenser with R.O.

This effectively eliminates 98% of all dissolved impurities, heavy metals, salts, viruses, bacteria, cysts, fluoride & chloride, chlorine, taste, odor, and chemicals leaving only purified water. Only pure & best tasting water from your own water supply is left for your health, safety and piece of mind.

#### The main features of Rayned water Dispensers are:

- 3 tapes for Warm, Cold & Hot Water.
- Inbuilt with 4 Stage R.O. System
- Compressor Cooling System
- High Quality Faucets Design
- Stainless Steel Hot Water Tank
- Water Storage Reservoir



**Water Dispenser**

## Water Cooling System:

Featured with Thermo Link Titanium. Allowing us to build the most durable, most cost efficient heat pump with the industry's strongest warranty to back it up! At the heart of your heat pump is the patented Thermo Link™ Heat Exchanger. The primary cause of premature heat pump demise is the failure of the heat exchanger. Ordinary heat exchangers are made from a cupronickel alloy. This cupronickel material is susceptible to attack from the sanitizers used in pools and spas, and from other related water chemistry conditions. Once the heat exchanger fails, the heat pump is ruined. The Thermo Link™ Heat Exchanger tube is made from titanium, and is virtually impervious to water-chemistry damage.

## What does cooling System do?

Water Cooling System is a refrigeration machine which produces chilled water (manages Approx. 20 Degree C). The primary function of a chiller is to lower the temperature of water to value such that it can be used for producing cooling effect in the water in order to prevent growth of bacteria's mainly legionella . A water chiller is just refrigerator machine but instead of keeping your food cool or making ice, it produces chilled water. The output of chiller is a water at lower temperature usually around about 20 Degree Celsius which prevents the growth of legionella.



**Heat Exchangers**

### Rayned Copper Silver Ionization System

Rayned Copper-silver ionization is to prevent the distribution of Legionella bacteria, . The main source of Legionella distribution is the warm water system. Circumstances in warm water systems are ideal for Legionella bacteria to grow and multiply. Contagion mainly takes place through shower steam. Copper-silver ionization can sufficiently kill Legionella bacteria and can actively deactivate Legionella, as well.



### Rayned UV Sterilization System

Rayned **UV** sterilizer utilizes a germicidal fluorescent lamp that produces light at a wavelength of approximately 254 nanometers (2537 Angstroms). The water with the bacteria/algae passes over the bulb (or around the bulb if a quartz sleeve is used) and is irradiated with this wavelength. As the light penetrates the bacteria/algae, it mutates the DNA (genetic material), preventing growth/multiplication of the organism.



### Chlorination Antiscalant Anticorrosion & Others

#### Rayned Chlorination System Consists of :

- **Controller:** Fully Automatic controllers are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the water related applications with high level performance.
- **Chemical Dosing Pump:** Dosing Pumps have programmable high Precision microprocessor Control with digital display And with suitable keys, for easy adjustment and operations. (BS standard and meets the international standards)
- **Chemical Dosing Tank :** Dosing tanks are with red screw fitting lid with a raised section to mount dosing pumps, mixers , level sensors etc. Made of high quality IDPE ( low density polyethylene) cylindrical in shape.

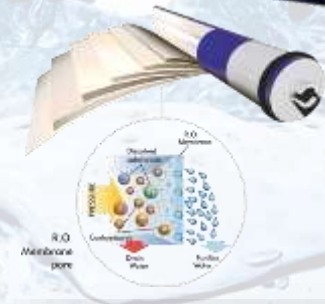


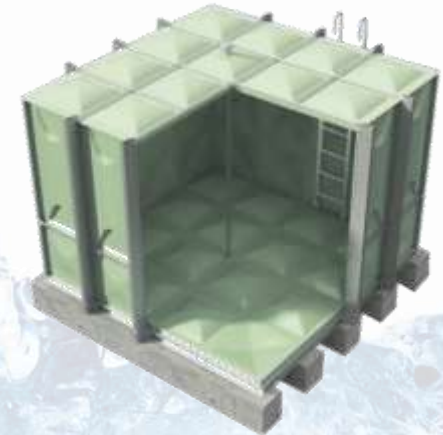
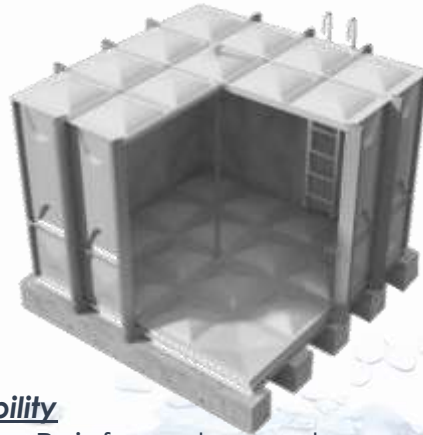
## Reverse Osmosis System

**Reverse osmosis (RO)** is a water purification technology that uses a semipermeable membrane. This membrane technology is not properly a filtration method. In reverse osmosis, an applied pressure is used to overcome osmotic pressure, a colligative property, that is driven by chemical potential, a thermodynamic parameter. Reverse osmosis can remove many types of molecules and ions from solutions, and is used in both industrial processes and the production of potable water. The result is that the solute is retained on the pressurized side of the membrane and the pure solvent is allowed to pass to the other side. To be "selective", this membrane should not allow large molecules or ions through the pores (holes), but should allow smaller components of the solution (such as the solvent) to pass freely. In the normal osmosis process, the solvent naturally moves from an area of low solute concentration (high water potential), through a membrane, to an area of high solute concentration (low water potential).

### Rayned- Grey Water System

Treatment of grey water must address all of the contaminants and it must be treated to a quality whereby it is of use in daily life. Grey water treatment is often dismissed as a simple process requiring only a few filters and chlorination, however, this is far from the truth and these process are often abandoned due to process problems and smell. The reality is that grey water contains, solids, hair, organic contaminants, oils, bacteria and measurable levels BOD. Without addressing these pollutants in a proper manner, the water for re-use will not be of an acceptable quality.





### Perfect Strength & Durability

GRP glass fiber Reinforced panels are molded at temperatures up to 150°C using isophthalic unsaturated polyester resins and are pressed under hot press molding process to realize optimum condition for maintain the best endurance.

**Our GRP Tank** are WRAS approval for 50°C potable water storage All panels are fully tested to resist pressures in excess of six times their working pressure.

#### **Characteristics of Normal SMC Panel Tank (Grey)**

- Strong and durable as panels are made of pure fiberglass.
- Prevent leakage completely by using special sealing materials.
- Prevent algae and fungus growth in the tank, anti earthquake structure realized by using strong panels and reinforcement materials.
- Various sizes of tanks are available by combination of strong panels to accommodate in the available space
- Panel Tanks are molded with technical perfection using strict processing method of construction technique using rigid polyurethane foam in the core.

#### **Characteristics of Anti-Bacterial SMC Panel Tank (Green) - apart from Normal Tanks**

- Inorganic anti-bacterial agent and bio-ceramics is added to SMC.
- Excellent mechanical strength owing to reinforced plastic material
- Nothing found in the test that checked for toxic substance elution
- Demonstrated strong anti-bacterial effect of more than 99%
- Panel Color: Jade (Green)



Solar water heaters use the solar energy from the sun to generate heat (not electricity) which can then be used to heat water for showering, space heating, industrial processes or even solar cooling.

Solar energy is the primary energy source for our planet as it is responsible for providing energy for plant growth and providing the warmth that makes our planet habitable.

While solar water heater devices have been around for over 100 years, the last 20 years have seen significant advances in absorber coating technologies, resulting in solar collectors that can reliably convert >50% of available sunlight for domestic hot water supply. A solar water heater is one of the most effective ways of cutting a household's carbon footprint by reducing reliance on dirty fossil fuel usage. By offsetting the use of electricity, gas or heating oil, using solar water heaters can also provide financial savings by reducing energy costs.

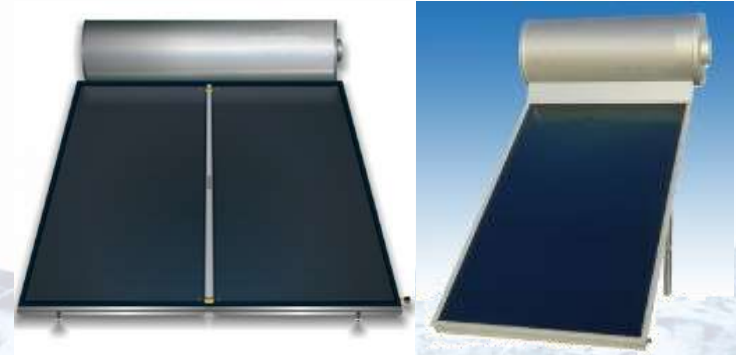
### **Flat Plate Solar Collectors**

The flat plate solar thermal collector is suitable for residential or commercial solar water heating projects.

The amount of solar energy that falls on the Earth in just one hour is enough to power the world for a whole year.

## **Solar Water Heater**

### ***Thermosiphon System***



### ***Forced Circulation System***



# Thermodynamic Solar Systems

**Thermodynamic Solar System** use the solar energy from the sun radiance wind and environment temperature.to generate heat (not electricity) Providing more hot water with less storage capacity, less panels, 365 days per year, whether is sun, cloudy, sand storm or even night.

The thermodynamic solar system Eco will surely meet all your expectations and provide many years of comfort with maximum power saving.

Thermodynamic Solar Panels are capable of capturing the heat from the sun, or even from the rain and wind, 24 hours a day, 365 days a year. One of the innovative aspects is that an ecological fluid at freezing temperatures circulates through the solar panel, allowing a greater uptake of the solar energy and a higher absorption of the environmental energy, which is then released to the water through a heat exchanger. Thus, ENERGIE's Thermodynamic Solar Panels surpass the limitations of the traditional solar panels and make possible a more efficient increase of the water temperature.





**Abu Dhabi  
International Airport  
Terminal 3 Expansion**

*Al Qana, Abu Dhabi*



*Yas – Zone RA Staff Accommodation*



*Al Jeel Tower,  
Abu Dhabi*



*Burjeel Medical City, Abu Dhabi*



**Projects | Towers**



**Al Habtoor City Business Bay  
Dubai**



**Sarayya Creek  
Abu Dhabi  
Tower 52 floors**



**Al Reem Tower, Abu Dhabi 33  
Residential Floors & 4 Car  
parking Floors**



**Capital Center -  
Abu Dhabi National  
Exhibition Center (ADNEC)**

Projects | Towers



**Najmat Abu Dhabi (27 Floors)**



**H.H. Sheik Omar Bin Zayed Building Abu Dhabi**



**AL Jawhara Tower, Abu Dhabi**



**Danet Abu Dhabi  
23 Floors of 252 Residential Apartments**



**Conrad Hotel, Dubai 55 Floors**



**Victory Heights Dubai (700 Villas)**



**Mirmar Al Aqah Beach Resort - Fujairah**



**Cosmopolitan Hotel – Dubai**



**Liwa Heights Dubai (42 Floors)**



**B+G+Attic+6p+ 30 Floor Tower in Sharjah**



**Water Front, Abu Dhabi**



**Al Bateen, Jumeirah Hotel Tower ( 52 Floors Tower & 35 Floors )**



*Mixed Use Building for Gulf Paradise Real Estate*



*The Grand at Dubai Creek Harbour*



*CB for Abdulla  
Abdulraheem  
Mohamed  
Al Qubaisi*



*Bawabat Sharq Villas, Abu Dhabi*

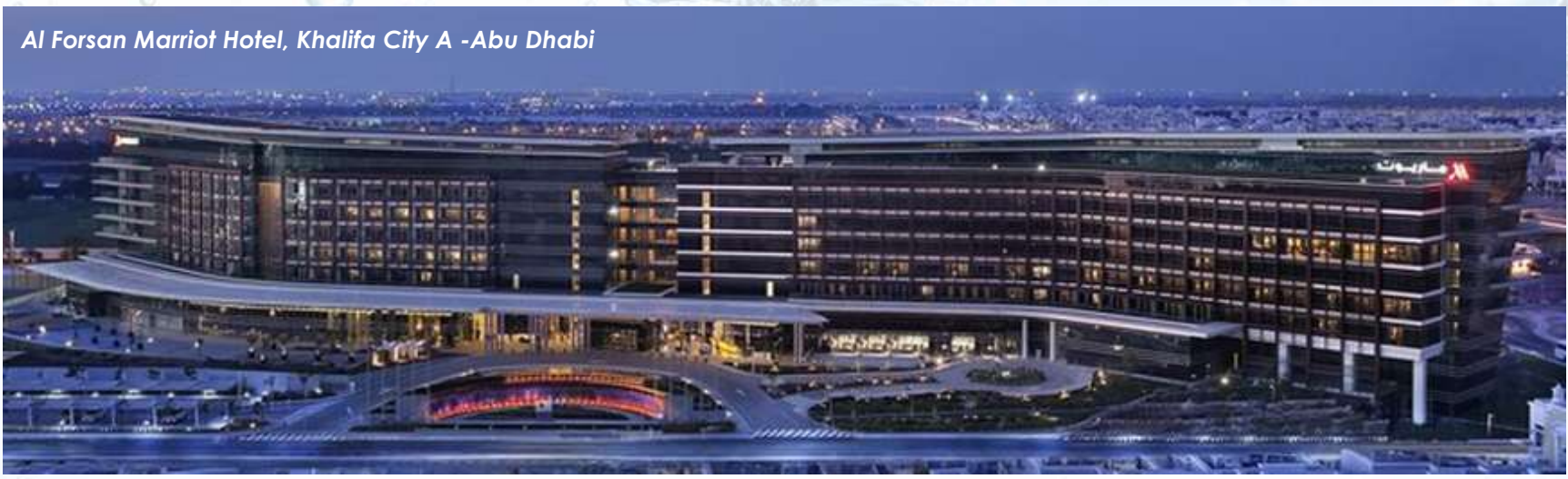




*Five Beach Hotel,  
Dubai*



*Yas Rotana  
Hotel at Yas  
Island*



*Al Forsan Marriot Hotel, Khalifa City A - Abu Dhabi*

*Tilal Liwa Hotel Abu Dhabi (Sorouh)*



*Centro Rotana Hotel at Yas Island*



*Intercontinental Residence Abu Dhabi*



*Anantara Hotel at Sir Banyas Island (TDIC)*



*Al Sila Ladies Club*



*Al Maya Resorts at Ghazlan Island.*



*Abu Dhabi Country Club*



*Marriot Hotel, Abu Dhabi, 30 floors*



*Royal Meridien Hotel, Abu Dhabi (30 Floors)*





*Twin Tower – Danet Al Qudra*



*ADISC Residential Complex*



*First Abu Dhabi Bank Office Building, Abu Dhabi*



*Rawdhat Abu Dhabi – C69 & 77*



*Building For H.H. Sheik Omer Bin Zayed Al Nahyan*



*Beach Tower Shams Abu Dhabi (28 Floors)*

*Al Falah Police Station*



*Masfout Hospital -Hatta UAE- Ministry of Public Works*



*Works at Tawazun Industrial Area*



*Ministry of Interior, Abu Dhabi*



*Al Ain Police Administration*



*Al Aziz Masjid, Abu Dhabi*





Global Indian School



Abu Dhabi Grammar School



Al Mafraq School-Baniyas



Al Shahama Residential complex



Emirates National School-  
MBZ



مركزة الياسمينية  
AL YASMINA SCHOOL





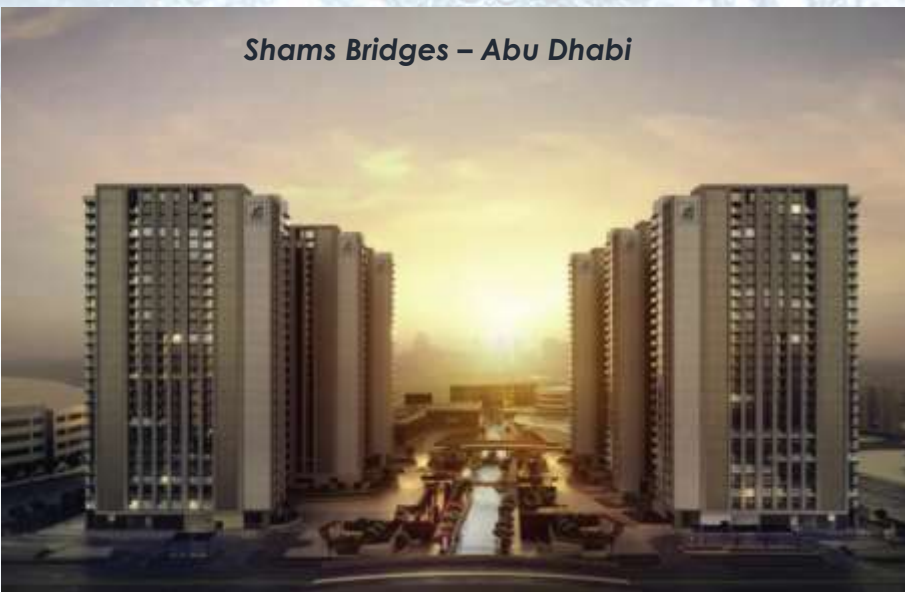
*RR5-C1 Najmat Tower Project – Abu Dhabi*



*Bldg. for Sheikh Rashid Bin Humaid Al Noaimi*



*Shams Bridges – Abu Dhabi*



*RR3-C10 Najmat Tower Project*



*Bldg for Mr. Abdulla Khalfan Matar Saeed Al Romaiithi*



*Al Shaer Residential Buidling*



*Bldg. for Building for Mr. Saleh Mohammed Saleh Majran Al Ameri*



*Sail Tower, Al Raha, Abu Dhabi*





*Al Ain Palace Hotel – Maintenance Works*



*Civil Defense Qasr Al Bahr*



*Deportation of Prison - Sharjah*



*Civil Defense Al Falah*

*Noor Tower, Dubai*



*Al Falah Residential Complex*



*Mayan Development, Abu Dhabi*



*Residential Building for Mr. Nasser Ahmed Khalifa Al Suwaidi*





**14 Commercial Buildings**



**Building For Mr. Abdulla Salem Hamad Rakad Al Amri**



**Bldg For Mr. Saeed Khalfan Saeed Hamad Al Dhahiri (ADCP)**



**Bldg. For Mr. Mohammed Saeed Al Qubaisi, (ADCP)**



**Bldg. For Mr. Naseeb Mubarak Bin Quiar, (ADCP)**



**Bldg. for Mr. Malla Mubrak Suweed Al Amry (ADCP)**



*Italian International School, Abu Dhabi*



*Umm Ul Ghafa Schools - Al Ain*



*(SABIS) Choueifat School at Khalifa A City Abu Dhabi*



*Future Schools- 10 Schools in Al Ain & Abu Dhabi Musanada*



*Abu Dhabi University*



*Abu Dhabi Vocational Educational Training Institute*



*Shaib Al Ashkar School Package 6*



*Sorbonne University - Al Reem Island - Abu Dhabi*



*Bin Ham School, Al Ain*



*Abu Dhabi International School*



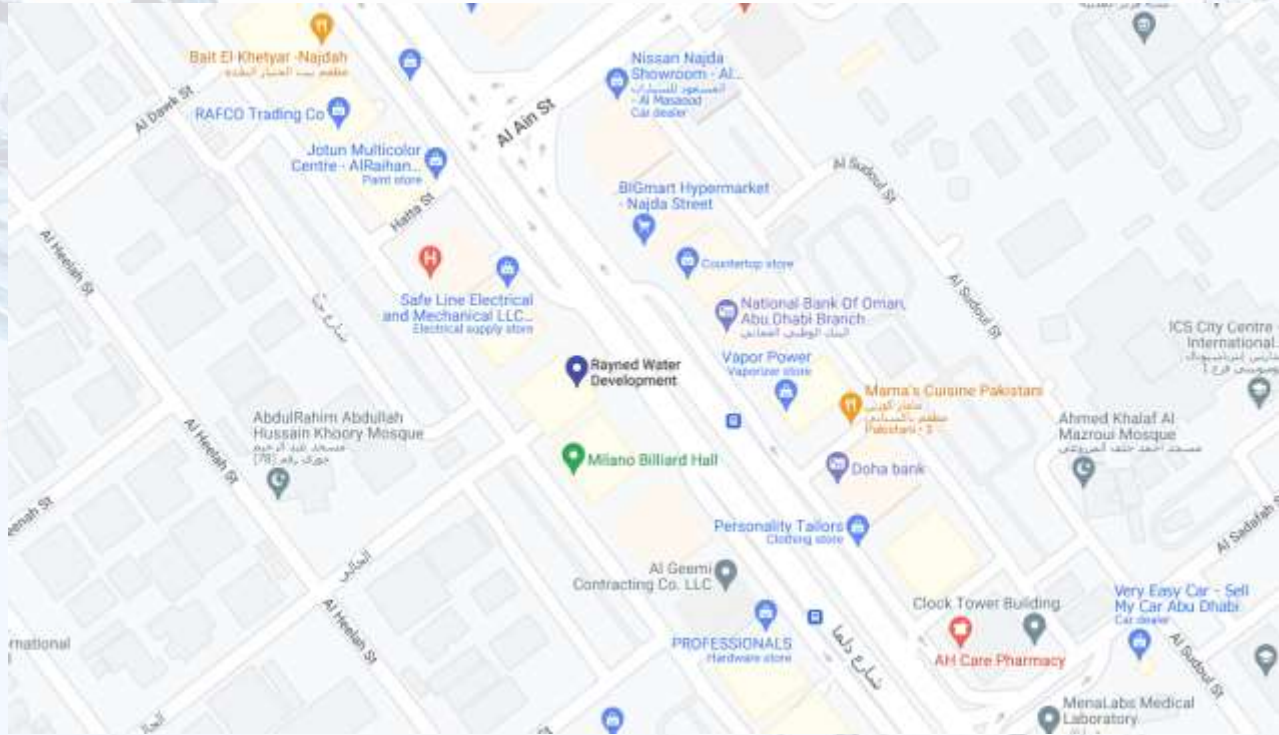
*Al Ryan International School, Masdar Abu Dhabi*



*SABIS School, Yas Island Abu Dhabi*



# Office Location



## Rayned Water Development

Office # 3, Mezzanine Floor,  
Bin Wanees Tower,  
Saeed Bin Ahmed Al Otaiba  
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