



AL KHADEER WATER TREATMENT LLC

We Serve environment with passion & commitment



**NO MORE WATER WASTAGE
ZERO LIQUID DISCHARGE**



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INTRODUCTION

Al Khabeer Water Treatment LLC (NoahAqua) is one of the finest companies in UAE to provide treatment of water and complex wastewater. In a short span of time, AKWT through its quality service and high success rate in managing difficult to treat wastewater has garnered respect from all over MENA region.

AREAS OF EXPERTISE

- ◆ EFFLUENT TREATMENT PLANT
- ◆ LEACHATE WASTEWATER TREATMENT
- ◆ VEHICLE WASH RECYCLING SYSTEM
- ◆ VACUUM EVAPORATOR
- ◆ SEWAGE TREATMENT PLANT
- ◆ GREY WATER RECYCLING SYSTEM
- ◆ pH NEUTRALIZER
- ◆ ODOR CONTROL UNIT
- ◆ OIL INTERCEPTOR
- ◆ HATCHERY WATER TREATMENT
- ◆ WATER PURIFICATION SYSTEM
- ◆ RO & CHILLER FLUSHING
- ◆ AKWT SPECIAL
- ◆ OPERATION & MAINTENANCE





EFFLUENT TREATMENT PLANT

Industrial effluents have long term impact on environment and ground water. The contaminants present in wastewater affects marine life and produces pollutants that are harmful to humans.

AKWT specializes in treating and recycling of industrial effluents. We have successfully installed and managed many plants to highest satisfaction of our valued clients.

MAIN INDUSTRIAL SECTORS ARE COVERED

- ◆ Paints / Chemicals Factories
- ◆ Galvanizing / Metal Coating / Gold refineries
- ◆ Printing / Packaging Industries
- ◆ Food / Beverage / Dairy Industries
- ◆ Tobacco Industries
- ◆ Landfill Leachate Wastewater





LEACHATE WASTEWATER TREATMENT

Leachate is a mixture of organic degradation products, liquid waste and rain water. It contains host of toxic and carcinogenic chemicals and if left untreated, can cause immense damage to humans and marine life.

We feel proud to inform that AKWT is only company in middle east to have a successful leachate wastewater plant installed for Jeddah Municipality-Kingdom of Saudi Arabia.

With intensive research and hard work propelled by latest advance technology, our team managed to successfully treat one of the most complex wastewater treatments in world with unbelievable treated water quality.



SL	PARAMETER	BEFORE TREATMENT (mg/lit)	AFTER TREATMENT (mg/lit)
1	TDS	43,800	150
2	BOD	3,240	<5
3	COD	11,380	11
4	TSS	1,750	<5
5	Ammonia	35	4





VEHICLE WASH RECYCLING SYSTEM

With sparse fresh water supplies and depleted ground water level, water conservation has become a necessity and can't be ignored any more. Vehicle wash stations uses lots of fresh water and wash water is wasted in drain along with good amount of money.

AKWT has developed innovative German technology-based car wash reclaim system with numerous benefits and water quality as depicted below:

pH = 6.5-8.5 ; TDS<1,500 ppm ; COD<50 ppm ; hydrocarbon<5 ppm
E-Coll / total Colliform / Legionella: untraceable

- ◆ High performing and economical system
- ◆ No consumables or spare parts required to operate plant
- ◆ No tanker disposal of wastewater is required
- ◆ Odor and spot free water quality
- ◆ Works efficiently with automatic as well as manual wash bays
- ◆ Easy to install and maintain without affecting daily work
- ◆ Fastest return on investment with big savings.

PROUD TO SERVE FOR ADNOC & EXPO 2020 RTA BUS WASH STATION





VACUUM EVAPORATOR

Last hope and a perfect solution for highly hazardous industrial wastewater especially for very high TDS effluent. To treat such type of wastewater and make it for re-use / irrigation standard is a challenge and AKWT masters it effectively.

WE ARE THE ONLY COMPANY IN GCC TO FULLY DESIGN, MANUFACTURE & TREAT EVAPORATOR SYSTEM.

WE GUARANTEE ZERO LIQUID DISCHARGE WITH HIGHEST QUALITY FINAL TREATED WATER FOR REUSE.



SL.	PARAMETER	BEFORE TREATMENT (mg/lit)	AFTER TREATMENT (mg/lit)
1	pH	<1	8.50
2	TDS	61,100	35
3	ZINC	8,270	<.05
4	COD	26,800	14
5	IRON	64,930	<0.05

FOLLOWING INDUSTRIES ENJOY IMMENSE BENEFITS FROM THIS SPECIAL TECHNOLOGY

- ◆ GALVANIZING
- ◆ METAL COATINGS
- ◆ GOLD REFINERIES
- ◆ INKS-PAINTS-CHEMICALS
- ◆ PRINTING





STP-GREY WATER PLANT

Sewage or black water is total wastewater from household. Grey water is wastewater from wash basin & shower, Another specialized field of AKWT and a step towards cleaner & greener environment. Our expert team based on site condition and client's requirement do design, engineering, operation and maintenance of plant.

APPLICATION OF TREATED WATER

- ◆ IRRIGATION
- ◆ LANDSCAPE
- ◆ FLUSHING
- ◆ CLEANING
- ◆ DUST CONTROL

BENEFICIAL FOR FOLLOWING SECTORS

- | | |
|-------------|---------------------|
| ◆ BUILDINGS | ◆ OFFICES |
| ◆ VILLAS | ◆ FACTORIES |
| ◆ CAMPS | ◆ COMMUNITY CENTERS |

TECHNOLOGICAL USAGE OF

- | | |
|--------|--------|
| ◆ MBR | ◆ SBR |
| ◆ MBBR | ◆ SAFF |





pH NEUTRALIZER

Chemicals testing laboratories samples while discharge to drain mostly are acidic in nature. It's not permitted to drain such wastewater without neutralizing it.

Untreated wastewater will have adverse impact on water pollution, affects drain pipelines as well as central sewage treatment station.

AKWT is one of few companies in UAE specialized in it with both treatment options of automatic as well as manual.

1-2 = Raw water pH treated water = 6-8

Key Features

- ◆ Effective & robust design
- ◆ Easy to install and maintain
- ◆ Proven successful technology.

Application Areas

- ◆ Educational Institutes
- ◆ Chemical Testing Labs
- ◆ Hospitals
- ◆ Research Centers





ODOR CONTROL UNIT

With flow of wastewater to a sewage pumping station, water level rises and displaces air. This air contains odor causing compounds like sulphides, amines, ketones & VOC's.

When concentration of such compound exceeds limit, it causes odor which are mainly from H_2S . This must be neutralized to keep area comfortable for humans.

AKWT specializes in odor control unit and have successfully installed many units all over UAE.

Odor Removal Efficiency > 99%.





OIL INTERCEPTOR

AKWT is specialized in storm water class 1 bypass oil interceptor. Our team designs it carefully to prevent hydrocarbons like diesel, petrol and engine oil from mixing with surface water generated by rainfall and entering drainage system.

Applicable at low risk areas like: Parking lot; Airport; Industrial area

Features

- ◆ Robust Tank-Corrosion Free
- ◆ Long Life, Low Maintenance Coalesce Filter
- ◆ Outlet oil Level Within Permissible
- ◆ Alarm System



MODEL NO. Noah Aqua	NOMINAL SIZE	NORMAL FLOW L/S	PEAK FLOW L/S	SILT STORATE CAPACITY-L	OIL STORAGE CAPACITY-L	DIA-MM	LENGTH-MM	IN/OUT SIZE-MM
BOIT-3	3	3	30	300	45	1200	1200	160
BOIT-10	10	10	100	1000	150	1200	3200	300
BOIT-15	15	15	150	1500	225	1200	4600	400
BOIT-20	20	20	200	2000	300	2000	3500	500
BOIT-25	25	25	250	2500	375	2000	4500	600
BOIT-50	50	50	500	5000	750	2000	7500	600
BOIT-100	100	100	1000	10000	1500	2750	7500	900

Customized Unit Also Available Depending on Site Requirement.





REVERSE OSMOSIS

AKWT offers wide range of quality RO's at most economical rate. We make customized RO's for mainland as well as challenging sea environment ships.

RO'S ARE EXTENSIVELY USED AT:

- ◆ Drinking Water
- ◆ Homes / Villas / Camps / Offices
- ◆ Beverages/ Medicines / Food / Perfumes / Production Facilities, etc.



CHILLED WATER FLUSHING

Another specialized field with a team and proper tools to carry out cleaning and flushing job.

We follow international chiller flushing standards as listed below:

- ◆ Step1:- Static flushing
- ◆ Step2:- Dynamic flushing
- ◆ Step3:- Chemical cleaning
- ◆ Step4:- Chemical treatment program.





HATCHERY WATER TREATMENT

(ATTENTION FISH FARM OWNERS)

Fish hatchery is a place designed and developed to raise fish. It provides conducive environment of water quality and oxygen level for fish eggs to hatch.

Maintaining good water quality is necessary for breeding, fish eggs and hatchling.

AKWT understands delicacy of handling this subject to utmost satisfaction of fish farm owners.

OUR CAREFULLY DESIGNED AND MANAGED WATER TREATMENT PROGRAM PROVIDES FOLLOWING BENEFITS:

- ◆ Eliminates colloidal and fine solids
- ◆ Eliminate organic compounds
- ◆ Eliminate pathogens from source and effluent water
- ◆ Drastically reduces fish mortality and diseases.

In short, AKWT's water treatment program makes huge savings and happy customers for fish farm owners.





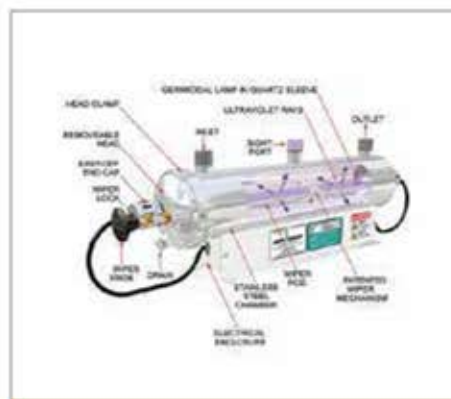
WATER PURIFICATION SYSTEM



MULTIMEDIA & ACTIVATED CARBON FILTERS



WATER SOFTENER



ULTRA VIOLET SYSTEM



DE-MINERALIZED PLANT



OZONE SYSTEM



CHLORINE CONTROLLER





AKWT SPECIAL

NATURAL EVAPORATION

- ◆ Economical solution to treat high TDS water
- ◆ Removes TDS naturally with no by products
- ◆ Well proven, tried & tested by AKWT
- ◆ Running successfully installed by AKWT



COILS MAKING MACHINE

- ◆ 100% developed by AKWT
- ◆ Full coil making of any size
- ◆ Very economical compared to imported one.



BASKET STRAINER

- ◆ Used as pre-treatment of wastewater
- ◆ 100% design and developed by AKWT
- ◆ Highly successful and economical
- ◆ SS 316 L body for Longevity





OPERATION AND MAINTENANCE

We are known for quality maintenance and service all over GCC with high satisfaction ratings from clients.

We undertake annual maintenance contract as well as consultancy. Our strong team of operation and maintenance are well versed in various field of water and wastewater with over a decade of experience.

KEY FEATURES OF OUR AMC INCLUDE:

- ◆ Keep plant in optimum condition and smooth operation
- ◆ 24x7 troubleshoot support
- ◆ Training to operator
- ◆ Report preparation and sharing plant condition with client
- ◆ Complete peace of mind for clients



APPLICABLE FIELD OF EXPERTISE

- ◆ Effluent treatment plant
- ◆ Vehicle wash reclaim system
- ◆ Grey water treatment plant
- ◆ Sewage treatment plant
- ◆ Water treatment plants





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