



MIDDLE EAST
GROUP OF COMPANIES
Engineering for the Environment

www.meftinternational.net



SINCE 2008

**TAILOR MADE
WATER TREATMENT
SOLUTIONS**












ABOUT US

MIDDLE EAST GROUP was established in 2008 with a business plan to be a leader in water and energy management service and solutions. Our quality approach, customized design, exclusive range of equipment's, competitive pricing and timely execution have earned the trust and faith of our clients. Now we are one of the leading environment solution providers with a complete range of technologies, products and services in water & waste water treatment and energy management catering Middle East, Asia and African markets.



OUR SERVICES

Our water management services include complete engineering, design, and supply of wastewater treatment solutions for municipal, industrial, and commercial applications. Water treatment solutions for Irrigation, potable water and drinking water applications. We provide most compact package treatment plants on a **skid mounted design or tailor-made containerized package**. All our package plants are **easy to install, commission and operate**.

-  Water filtration systems
-  Water softeners
-  Reverse Osmosis plants
-  Sewage treatment plants
-  Grey water treatment plants
-  Waste Water Treatment Plants
-  Effluent treatment plants
-  Water disinfection system (Dosing, UV, Ozonation system)
-  Operation and maintenance of water treatment plants

WHY CHOOSE MIDDLE EAST ■



All our products and solutions are tailor made and designed with most advanced technology considering the operational convenience, low energy consumption and easy operation with latest automation technology.

In house manufacturing and fabrication facility for metal tanks following ASME standards, fabricated from 300, 400 series Stainless Steel, Carbon Steel, GRP and FRP laminated and Aluminium materials. Our quality control department, established in

accordance with ASME requirements, ensures that each item is fabricated to the highest standards.

Our manufacturing and assembly facility in UAE and India equipped with modern manufacturing equipment's and experienced technicians and engineers enable us to meet any delivery challenges.



PACKAGE TREATMENT PLANTS

SKID MOUNTED/ CONTAINERISED WATER TREATMENT SOLUTIONS.

MEFT PACKAGE MBBR PLANTS

Tailor made package MBBR plant for domestic and municipal sewage treatment applications.

MEFT PACKAGE MBR PLANTS

Combination of High efficiency membrane separation technology and conventional activated sludge

REVERSE OSMOSIS PLANTS

- / Brackish & Sea water treatment
- / Portable water treatment
- / High TDS applications



MEFT PACKAGE PLANTS

Tailor made package plant for domestic and municipal sewage treatment applications.



FEATURES

- / Containerized, Modular design
- / Small foot print
- / Prefabricated design in MSEP/ MSRL tanks or in refurbished containers
- / Fully automatic operation
- / Movable type, suitable for underground installation
- / Treated water can be used for toilet flushing and irrigation



APPLICATIONS

- / Residential complexes
- / Hospitals
- / School & institutions
- / Hotels & Resorts
- / Industries
- / Municipal waste water treatment plant



FABRICATED WATER TREATMENT EQUIPMENTS

TANKS / LAMELLA / TUBE SETTLER

fabrication facility for metal tanks following ASME standards, fabricated from 300, 400 series Stainless Steel, Carbon Steel, GRP and FRP laminated and Aluminium materials. Our quality control department, established in accordance with ASME requirements, ensures that each item is fabricated to the highest standards.

MSEP / MSRL / FRP – FILTERS

Filtration systems are used to remove suspended particles from water, Filtration systems are used as the main treatment system as well as pre-treatment for most of the WTP applications.

There are different types of filtration systems.

SAND FILTERS

We provide sand filters in MSEP /MSRL /FRP vessels with automatic operation as well as manual operation as per client requirement. The filters are designed based on the source of raw water and its basic characteristics. The main purpose is to remove the suspended particles from water to protect the post treatment systems.

IRON REMOVAL FILTERS

The presence of iron and manganese, which are abundant in rocks, in high concentrations by dissolving in water causes toxic effects for humans. Iron and manganese are more common in underground waters depending. Therefore, iron and manganese removal filters are used in waters which include high iron and manganese content. The presence of iron in the water causes the colour change, a rusty taste in the water and the increase of bacteria. In addition, iron and manganese removal in some sectors directly affects product quality and productivity.

We carefully choose and design our media and filters for iron removal and our filters are high efficiency filters in the market.

CARBON FILTERS

Activated carbon, in water treatment plants is used to remove ODOR, COLOR, TASTE, organic matter and residual chlorine from water, our carbon filters are designed in MSEP /MSRL /FRP vessels with automatic operation as well as manual operation as per client requirement. The filters are designed based on the source of raw water and its basic characteristics





WATER MANAGEMENT SERVICES FOR COMMERCIAL BUILDINGS & INSTITUTIONS

Environmental sustainability is the responsibility to conserve natural resources and protect global ecosystems to support health and wellbeing, now and in the future. Achieving a sustainable development by reusing and recycling maximum waste water and grey water in the commercial buildings and institutions will help to conserve water and energy for future.

We provide complete water treatment solutions for commercial and institutional applications.



COMMERCIAL BUILDINGS & INSTITUTIONS

GREY WATER TREATMENT

- / Biological pre-treatment and ultrafiltration systems
- / Treated water can be used for cooling tower make up, gardening or irrigation application

TSE WATER TREATMENT

- / Reduce portable water usage by TSE water
- / Generally, TSE water will have high TDS and these can be treated by UF followed by RO plant

BOILER WATER TREATMENT

- / Prevent scaling on boilers and reduce blowdown
- / Water softeners and RO plants for low pressure boilers and Demineralization plants for higher pressure boilers

COOLING TOWER TREATMENT

- / Treat your cooling tower makeup water prevent scaling reduce blowdown save water

WATER SOFTENERS

- / Simplex and Duplex softeners to remove hardness
- / Protect your Boilers, Dishwashers, washing machines, Cooling systems
- / Increase the life of your valuable appliances



INDUSTRIAL WASTE WATER TREATMENT

We provide tailor made advanced treatment solution for industrial waste water treatment. Our advanced treatment technologies offer high efficiency removal of heavy metals, BOD, COD and TSS.

ELECTROCOAGULATION SYSTEM

Automatic electrocoagulation system to enhance the coagulation process better removal of colour, oil and grease and to separate the suspended solids.

As a primary treatment or a tertiary treatment.

DISSOLVED AIR FLOTATION (DAF)

Dissolved air flotation (DAF) is a water treatment process that clarifies wastewater (or other waters) by the removal of suspended matter such as oil or solids. The removal is achieved by dissolving air in the water or wastewater under pressure and then releasing the air at atmospheric pressure in a flotation tank or basin. The released air forms tiny bubbles which adhere to the suspended matter causing the suspended matter to float to the surface of the water where it may then be removed by a skimming device.

ADVANTAGES

- / No use of chemicals
- / Hardness decreases
- / Oil & Grease removal will be more than 75% efficiency
- / BOD & COD removal
- / Low operating cost
- / 97% colour removal
- / Low manpower required

3 MLD DESALINATION RO PLANT IN BAHRAIN

Client: Royal Court of Bahrain

Scope of work

Sea water intake system

Sea water pumping station

Containerized RO plant

Fully automatic operation with redundant control system

Inlet TDS: 61000 ppm

Outlet TDS: < 150 ppm

9.3 MLD DAM WATER TREATMENT IN SAUDI ARABIA,

Client: National Water Company

Scope of work

Primary clarification and settling units

All tanks, including lamella, mixing, and collection tanks in MS

Horizontal GAC for reduced space

All tanks are manufactured as per ASME standard

Containerized ultrafiltration plant

Fully automatic operation

Inlet TDS: 61000 ppm

Outlet TDS: < 150 ppm

4 X 50 KLD SLAUGHTER HOUSE WWTP IN UNITED ARAB EMIRATES

Client: ADSSC

Scope of work

Primary treatment with DAF units

Advanced MBR technology with hollow fiber membranes.

Compact sludge dewatering units

Fully automatic operation with redundant control system,

Central SCADA connectivity with GSM

Plant Design parameters:

IN LET

COD: 10000 ppm

BOD: 3000 ppm

OUT LET

COD: <100 ppm

BOD: <10 ppm

SOLUTIONS TO YOUR CHALLENGES IS OUR EXPERTISE





ENGINEERING FOR THE ENVIRONMENT

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