



**WEMS**

Water Engineering and Management Services

TREATING WATER IS A NOBLE ENDEAVOR



# Corporate Profile

## Corporate Profile

### **WATER ENGINEERING & MANAGEMENT SERVICES (PVT.) LTD.**

WEMS Group is one of the leading groups of companies operating in the field of Water and Wastewater Treatment. We offer turnkey Solutions, Equipment, Operations and Maintenance Services. We take pride in providing sustainable innovative and environment friendly treatment solutions. We also offers comprehensive package of quality chemicals and backup technical support services along with in house laboratory facilities. Innovative treatment of boiler water, cooling water, influent, and wastewater, as well as practical solutions for process improvements and pollutant control, allow our customers to capture myriad benefits. We serve the textile, chemical, pharmaceutical, power, allied food and beverage. The essence of our continuing excellence rests in our desire to achieve "Continual Customer Satisfaction" providing our customers with comprehensive and integrated engineering and manufacturing solution that add value well beyond project execution.

We are committed to develop engineering solutions to meet our Customer's most complex requirements. Engineering disciplines including Chemical, Mechanical, Piping and Electrical; as well as advanced specialties such as simulation, enterprise integration, integrated automation processes and interactive 3D modelling. WEMS collaborates with their Customer counterparts to develop integrated solutions that include Engineering, Procurement, Fabrication and Construction (EPFC).

Sustainability has been integral to our operations and success for 16 Years. Our sustainability mission envisions meeting the needs of our customers while conducting business in a socially, economically, and environmentally responsible manner to the benefit our current and future generations, thereby creating value for all stakeholders.

Recycling and reuse of the existing water and wastewater is extremely important to protect our precious resources for domestic, agriculture, commercial and industrial use. WEMS under take recycle/ reuse projects in order to attain zero discharge from the municipal and industrial wastewater.



# Customer Satisfaction

Customer Satisfaction

We are a client centric organization and believe in offering our water and wastewater treatment systems as per the industrial standards of quality. We follow an ethical business policy by adopting fair means and thereby spreading our presence in the most efficient way. Our array of water treatment plants and systems is specifically designed to meet the specific demands of our customers. This enables us to satisfy our customers, completely. To maintain our high customer satisfaction level, we address all their queries within the set time frame and accept their recommendation for the improvement in our products.

The essence of our continuing excellence rests in our desire to achieve "continued customer satisfaction" providing our clients with comprehensive and integrated engineering and manufacturing solutions that add value well beyond project execution.



# Research & Development

Research & Development

Our company has a team of research experts whose main objective is to ensure development of our water treatment systems through innovative techniques and processes. They manage the research and development department, which is equipped with latest tools and equipment to assist in analyzing the data acquired by the researches.

First, the researches are conducted to find out the most feasible and effective new development in the segment of water processing. The new development can be based on a technology, process, or design. The new developments are analyzed with respect to the company's resources. After the confirmation regarding its feasibility and effectiveness, the development is suggested to the concerned department.





# Vision

Vision

We aim to become trust worthy partner in the field of water treatment and engineered products by providing Quality benchmark and cost effective solutions to our customers specifically in our region and around the globe through technology, creativity and devotion.

# Mission

Mission



WEMS Group will give effect to the company vision by employing well qualified & motivated individuals and/or through strategic associations & alliances with other leading organizations in the field of water technology. Use will be made of the best systems and technologies available to meet the objectives efficiently, affordably & provide the highest quality Water, Wastewater treatment and engineered to customers specific requirements. All activities will be performed according to code of conduct which aims to be fair, courteous and considerate to fellow colleagues, suppliers and clients.

# Quality Policy

Quality Policy



We are committed to quality & excellence with following guiding principles:

- Customer satisfaction
- Conformance to highest quality standards
- Respect for employees development & motivation
- Continual Improvement



These guiding principles set the framework for the following in general:

- Quality of product & service
- Timely delivery of product & service
- Efficiency of internal processes
- Continual development of human resources & knowledge
- Continual development of product



# HSE Policy

HSE Policy



At WEMS personnel safety, health and the protection of the environment is of the prime important. The management providing facilities that are both safe and healthy for employees. We believe that there is no business more important than the well being of all involved parties in our operations.

Adherence to our HSE policies, the government policies and the customer's policies is a top priority, not only for managers and supervisors, but also for each employee all of whom must understand that he/she is the manager of his/her own safety and the safety of co-workers.

WEMS recognizes the responsibility and obligation to protect and preserve the environment. All workers are strict to ensure minimum impact and shall restore the environment fully if any damage is caused by unavoidable circumstances.

In order to implement our policy, the HSE program shall include, but not limited to the following:



- Provide training to all employees and strictly adhering to the statutory regulations.
- Providing all required safeguard to the maximum practical extent possible. Fully following stringent code of manufacturer's recommendation with no deviation or shortcuts.
- All sub-contractors working for WEMS must follow this policy.

# Field Of Experties

Field Of Experties



## WATER TREATMENT

### Membrane Technologies

- Reverse Osmosis
- Ultra Filtration
- Nano Filtration
- Dye Purification

### Conventional Technologies

- Sand Filter
- Multimedia Filter
- Activated Carbon Filter
- Lime Soda Softening

### Ion Exchange

- Demineralization
- Softening Plants
- Iron Removal Filter
- Arsenic Removal Filter
- Fluoride Removal Filter
- Nitrate Removal Filter
- Electro Deionization

## WASTEWATER TREATMENT

- Industrial Wastewater Treatment
- Recycling of Wastewater
- Sewage Treatment
- Package Sewage Treatment
- Oil Water Separator

### Technologies

- Activated Sludge/ Extended Aeration
- Mixed Bed Bioreactor (MBBR)
- Membrane Bioreactor (MBR)
- Integrated Fixed-Film Activated Sludge (IFAS)
- Sequencing Batch Reactor (SBR)

## OPERATION & MAINTENANCE

The company offers a complete solution through consultation, operation and maintenance services in the treatment of drinking and industrial water, municipal sewage plants, industrial wastewater treatment plants and desalination water treatment plants. We offer a full service package that guarantee maximum operational safety while at the same time committing to excellence. The company's workforce ensure its customers are fully satisfied with its full service concept.

Our individual coordination takes place prior to commitment of the work in order to avoid unnecessary expenses for the client. We offer our customers individual service models for the economic operation of plants.



# Water Treatment

Water Treatment



# Water Treatment

Water Treatment

Pure drinking water, will be in permanent demand for ever, and we have ensured to retain the pole position in this rapidly growing sector, by ensuring complete understanding of the clients requirements, Our wide array specially designed superior quality of Industrial water treatment system which has gained us national and international reputed surpass by none. We are manufacturing an assortment of water treatment plants tailored to customer requirement. Our Water Treatment product line includes:

## Reverse Osmosis Plant

With the help of our modern manufacturing facilities, we produce an array of skid mounted as well as packaged industrial R. O plants with customized design to meet the specific requirements. These are widely used for Industrial water treatment as well as drinking water treatment. It removes dissolve salts, eliminates hardness, microbiological impurities such as bacteria and viruses, chemicals, pesticides and other kinds of dissolved and suspended solids. Our range of Industrial Reverse Osmosis Treatment Plant is meant for effectively purifying colored and salted water.

## Demineralization Plant

Demineralized water plant is based upon ion exchange technology. It comprises of two or more vessels filled with strong/weak acid cation exchange resin and strong/weak base anion exchange resins. The column is designed to meet the specific requirement. WEMS has technological support in the design of co-current, counter current & packed bed type ion exchange system. These Systems are designed and manufactured under Rohm & Hass License.





# Water Treatment

Water Treatment



# Water Treatment

Water Treatment

## Softener

Our qualitative range of water softener helps us to remove the hardness of the water caused by the presence of calcium and magnesium. Our water softener is charged with cation exchange resins in sodium form. Series softeners are designed for longer operating cycles, low regeneration cost. The systems incorporate the proven technique of counter and co-counter current regeneration flow rate to economically to suit the demand of soft water for industries and commercial use.

## Sand & Multimedia Filters

WEMS multi media water filter systems are ideally suited for use where stringent water quality standards are required or where higher levels of suspended solids are present. These applications can include re-use applications, water pre-treatment applications for reverse osmosis and deionization systems or as a pre-treatment system prior to disposable bag or cartridge filters. WEMS multi-media water filter systems are also widely used as primary water filters for removal of suspended solids in incoming plant water or in waste water clean up applications.

## Activated Filters

WEMS designs & manufacturer carbon filters, and purification systems, including drinking water & wastewater treatment and sugar decolouring or purification. We provide custom design for the majority of water, food or industrial granular activated carbon filter. From drinking water and wastewater treatment, to odor control, to chemical and pharmaceutical manufacturing or processing, WEMS has the experience and capabilities that provide value to your every day business.



# Wastewater Treatment

Wastewater Treatment



# Wastewater Treatment

Wastewater Treatment

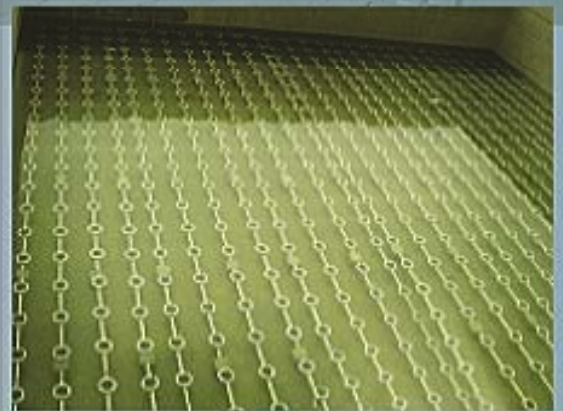


WEMS applies numerous process and state of the art technologies to treat wastewaters of diverse types of industries such as textiles, pharmaceuticals chemicals, foods, pulp & paper. The scope of WEMS's works covers both supply of standards equipments, design and supply of customized system through to the commissioning stage.

WEMS wastewater treatment plants cater for a wide spectrum of applications requiring aerobic, anaerobic, oil separation, physiochemical, dissolved air floatation and disinfection processes.

WEMS has implemented various scale sewage and industrial waste water treatment. These plants are comprised of all or part of the components: raw wastewater pumping stations, screens, Flow Measurement, primary Clarifiers, aerobic Basins, anaerobic Basins, and Secondary Clarifiers, Tertiary treatment, sludge Digesters, sludge dewatering Systems.

WEMS specialist includes engineers, chemists, biologist and environmentalists has been involved in process design, engineering, construction and operation & maintenance.



# Technological Collaboration

Technological Collaboration

## MAIN PRODUCTS

- Fine Screen
- Coarse Screen
- Air Diffuser
- Dissolved Air Flotation
- Circular Clarifier
- Rectangular Clarifier
- Traveling Bridge
- Shaftless Screen
- Flap Gate



**ASSOCIATION OF 3 Co., Ltd.**  
An ISO 9001-2000 Certified Company



Association of 3 Co., Ltd was established in 1993 and has built into a very successful organization for supplying and manufacturing for water and wastewater treatment equipments. The system can be arranged for various applications like clarification, wastewater sludge scraping, dissolved air flotation scum removal and solid waste handling.

These equipments are superior in design and engineering, quality, cost and their durability unmatched by others. The system sophisticated and proven technology make them power saving, less maintenance, low investment and client particular requirements.



# Technological Collaboration

Technological Collaboration



## DP PUMPS

MANAGING THE DYNAMICS OF WATER

DP-Pumps is the export division of the company Duijvelaar Pompen, located in Netherlands and the manufacturer of vertical pumps, booster sets and the tailor made turnkey projects in the field of water management. DP-Pumps export our products to over 100 countries through local distributors. Wems has exclusive distribution rights for Pakistan.

We are specialized in the field production of stainless steel pumps, but in the course of time we have developed more and more into a many sided partner in the field of water management. Our capabilities include not only in the production, but also the design and engineering of problem solving pumps and pump systems.

Our products are applicable in many fields such as the building industry, food and beverage industry, irrigation and water treatment.



### MAIN PRODUCTS

Vertical Pumps

Booster System

Controllers

Controller Software

Wastewater Pumps

Headers, Accessories, Kits



# Technological Collaboration

Technological Collaboration

## EMEC



Emec Srl is a leading company in the field of metering and control systems of chemicals for the water treatment in the manufacturing and industrial processes. Emec offers a wide range of metering pumps, control instruments, electrodes, sensors, mixers, tanks and control process.

Emec products, employing advanced technology, are result the result of planning capability and experience. All the devices are subject to close inspections before packaging and forwarding.

A team of experts develop constantly new products and advanced technical features according to the customer's requirements and special market demands.

### Product Range

Metering Pumps

Instruments

Probes

Water Meter

Accessories.



# Engineering Works

Engineering Works



Pressure Vessel.

Storage Tanks.

Scrubber.

Steel Structure / Skid.

Piping Fabricatopm.

Assembling/ Testing.



WEMS Engineering Works has the fabrication facility which is supported by an in-house design unit. It includes all the required designing amenities, to provide turnkey designing services for water and wastewater treatment equipment. The systems are designed strictly as per the specific needs of our customers.

WEMS has made the commitment to its customers and employees to have the tools and facility to produce the highest quality fabrication. WEMS is constantly upgrading our industrial fabrication facility with state-of-the-art equipment to make this possible. We maintain comprehensive technical standards and have stringent quality control and assurance procedures, allowing us to deliver consistent, high quality projects.

Our manufacturing facility has the capability to fabricate equipment, involving carbon low-alloy, high – alloy stainless steel and various non ferrous materials.



# Wetco Industrial Services

Wetco Industrial Services



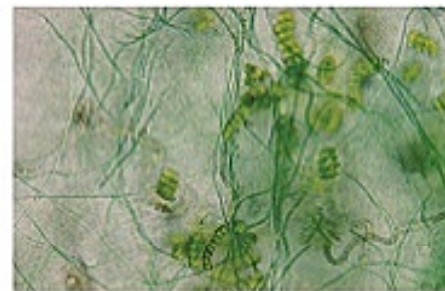
Having an exclusive full line distribution arrangement with Eastern Technologies Inc-USA and Environment Leverage Inc-USA, WETCO Industrial Services has been set-up in Pakistan since 2004 with an objective to provide all the Water Treatment users with a comprehensive package of quality chemicals & back up technical support services at very attractive cost. If your present treatment is the base of expensive down times, contact our representative and let us prove you how our superior products & services cut your cost & shutdowns.

## OUR AREAS OF EXPERTISE

- Cooling Water Treatment
- Close Circuit Water Treatment
- Boiler Feed Water Treatment
- Reverse Osmosis Plant Treatment
- Waste Water & Canal Treatment
- Surfactants & Antifoaming Agents
- Process / Fuel Oil Treatment
- Bio-Augmentation

## SERVICES

Even the most experienced engineers / supervisors require the latest information on the product, operating procedures and equipment for perfecting their job. Our team of qualified staff supported with our in house laboratory facilities, on job training program, after sales services offered to our clients, Our Principal's assistance in their difficulties have resulted a wide network of "Finally happy & contended customer network". Today our customer network includes Fertilizers, IPPs, Petrochemicals, Oil & Gas, Refineries, Textiles, Buildings, Foods & Beverages and Chemical Industries.



# Laboratory

Laboratory



[WETCO solves all your water analysis needs]

WETCO Testing Laboratory facilitates its clients with all the water testing with the most sophisticated equipment at our laboratory in Lahore. We have proven expertise in the full range of cooling water, boiler, reverse osmosis, waste water & canal clarification quality testing.

While having a strong belief as "Laboratory is the backbone in our business" We followed by the ASTM standards perform all the Water & Microbiological tests (either it is Waste or Effluent water, RO water, Open or Close circuit Cooling Water, Boiler Feed / Condensate Water) in order to achieve all the process control parameters further smothering the operations & maintenance of the plants.



# Certificates

Certificates



# Wems Family

WEMS Family





ATS SYNTHETIC PVT LTD.



### **Fertilizers Sector**

Engro Fertilizers  
Falima Group

### **PETROCHEMICAL SECTOR**

ICI Pakistan Ltd.  
Pakistan State Oil  
Sitara Chemical Industries Ltd.  
Sitara Peroxide Ltd.  
Mol Pakistan Oil & Gas Co.  
Petronas Carigali Pakistan  
Presson Descon International  
4B Industries  
China Petroleum Engg. & Const. Company  
Itehad Chemical Ltd.  
Captain-pq Chemical Industries (Pvt.) Ltd.

### **Engineering & Power Sector**

Chiniot Power Plant  
JDW Group  
Descon Engineering  
JGC Descon  
TNB Liberty Power Tech  
Liberty Power Tech  
Thames Water Asia Pacific  
Gulf Renatal Power

### **Foods & Beverages Sector**

Coca Cola Beverages Pakistan Ltd.  
Coca Cola Export Corp.  
Asian Food Industries  
Rafhan Maiza Products Co.  
Faraz Foods  
Haleeb Foods  
Engro Foods  
Pepsi Cola International  
Nestle Milkpak  
Shamim & Co (Pepsi Cola Bottlers)

### **Allied Sector**

D.G.Khan Cement Company  
Dewan Cement  
Gharibwal Cement  
Atlas Honda  
Lakson Tobacco Company  
Pakistan Tobacco Company  
Tri-Pack Films  
Poplon & Company  
Century Paper Mills  
A.T.S Synthetic (Pvt.) Ltd.  
Ibrahim Fibres Ltd.

### **Pharmaceuticals Sector**

Shaukat Khanum Cancer Hospital  
Abbot Laboratories Pakistan  
Medipak  
CSH Pharmaceuticals

Clientage  
Clientage

### **TEXTILE MILL SECTOR**

Nishat Mills Limited  
Kohinoor Textile Mills  
Sapphire Group  
Gul Ahmad Textile Mills  
Chenab Ltd.  
Mustaqim Dying Printing Industries (Pvt.) Ltd.  
Nishat Chunion Group  
Gulistan Group Of Companies  
US Denim (Pvt.) Ltd.  
US Apparel & Textiles (Pvt.) Ltd.  
Bismillah Fabrics Ltd.  
Bismillah Textile Ltd.  
Union Export  
Faisal Asad Textile Mills Ltd.  
Naveena Group of Industries  
Zahidjee Textile Mills Ltd.  
Liberty Mills Ltd.  
Azgard-9 Ltd.  
Hira Terry Mills  
Arzoo Textile Mills Ltd.  
M.K.Sons (Pvt.) Ltd.  
Monnoo Group of Industries  
Arshad Corporation  
International Textile Ltd.  
Interloop  
Premium Textile Mills  
Sadaqat Textile Mills (Pvt.) Ltd.  
Lucky Textile Mills (Pvt.) Ltd.  
Din Textile Mills Ltd.  
Shafi Texcel Ltd.  
Artistic Milliners  
Soorty Enenterprises (Pvt.) Ltd.  
ACS Textiles  
Ayesha Spinning Mills Ltd.  
Zephyr Textiles Ltd.  
Varioline Intercool Pakistan (Pvt.) Ltd.  
Artistic Milliners  
Sareena Industries & Embroidery Mills (pvt.) Ltd.  
Textilers (Pvt.) Ltd.  
Kings Textile Industries Ltd.  
Kamal Textile Mills (Pvt.) Ltd.  
Saad Textile Mills (Pvt.) Ltd.  
Kamran Industries (Pvt.) Ltd.  
Klash (Pvt.) Ltd.  
Diamond Fabrics (Pvt.) Ltd.  
Kausar Industries

