

we  
**Promise**  
we  
**Deliver**

# Company Catalogue

Advanced Chemical Technologies for  
Industrial Water Management



**CHEMICAL KINETICS**

[www.chemicalkinetics.co](http://www.chemicalkinetics.co)

ISO 9001-2015 CERTIFIED COMPANY

# what's inside...

## COMPANY CATALOGUE

### CHEMICAL KINETICS



Company Introduction  
Company Leadership  
Global Partnerships

1

### UPSTREAM CHEMICAL



Oilfield Chemicals

3

### WATER TREATMENT CHEMISTRY



Water Treatment Chemicals  
Cooling Water Treatment  
Boiler Water Treatment  
Reverse Osmosis (RO) Plants

4

### WASTEWATER CHEMISTRY



Effluent & Wastewater Solutions

6

### WASTEWATER TREATMENT PLANTS



Comprehensive Wastewater  
Treatment Services

7

### WASTEWATER RECYCLING PLANTS



UltraFiltration (US) System  
Key Features, Advantages & Applications

8

### PULP & PAPER CHEMISTRY



Chemicals for Pulp & Paper Industry  
Full Range of Paper Processing Chemicals

9

### SUGAR & DISTILLERY SOLUTIONS



Sugar Processing Chemicals  
Molasses Distillery Solutions

10

### DEFOAMERS & EMULSIFIERS



Range of Products

11

### GEARUP ENGINEERING SOLUTIONS



Operation, Maintenance & Support Services  
Manpower Services  
Component & Inventory Management  
Projects & Installations

12

### ENGINEERING BUSINESS



Reverse Osmosis (RO) Systems  
Water Softening Plants  
Demineralization (DM) Plants  
Containerized RO Plants

16

### DOSING & CONTROL SYSTEMS



Chemical Dosing Pumps  
Etatron Control Instruments  
Control & Regulation Instruments  
Flow Meters, Mixers & Tanks

18

### INDUSTRIAL PUMPS



Heavy-Duty Industrial Pumps

20

### CENTRIFUGAL PUMPS



Precision Centrifugal Pump Solutions

21

### CP SERIES EDI MODULES



EDI Modules & Features

22

### MEMBRANES & RESINS



DuPont Membranes & Resins

23

### OUR VALUABLE CUSTOMERS



Key industries and clients served by  
Chemical Kinetics across Pakistan.

24



**CHEMICAL KINETICS**  
www.ChemicalKinetics.co

**OUR WATER  
OUR  
FUTURE**

www.chemicalkinetics.co

## CHEMICAL KINETICS

Delivering Solutions Across Pakistan

**CHEMICAL KINETICS** is leading company, providing complete Water Treatment Solutions - Equipments, Chemicals & Application services.

We are also providing World proved Chemistries for Pulp & Paper, Sugar and Alcohol/Ethanol Distilleries Industries.

### The difference .. ? COMMITMENT

A commitment to finding new and better Techno-Commercial Solutions to apply chemistries. **We take after sales / application service as a science because our goal is our customers satisfaction.**

With Multinational Resources strategically located in all major industrial cities of Pakistan, Followings are major highlights of company:

- **Established in 2002:** owned and managed by specialized & experienced engineers who have more than 20 years' experience.
- **Located in all major cities** i.e. Lahore, Karachi, Rawalpindi, Multan and Faisalabad.
- **More than 55 experienced engineer, technician and application staff** for after sales services.
- **Currently, more than 400 industrial customers.**
- **More than 150 industrial reverse osmosis plants** has been installed.



**Better Living through  
Right Technology**



We promise We Deliver

# Company Leadership



**Abdul Sattar Chaudhry**  
BSc. Chemical Engineer  
*Managing Director*

Started his career in the fertilizer plant. Worked as plant manager in chemical process industry. More than 33 years working experience in field of Water & Waste Water Treatment.



**Muhammad Sarfraz Chughtai**  
MSc. Environmental Engineer  
BSc. Chemical Engineer  
*Director Technical*

Started his career in the field of Process Water Treatment. More than 25 years working experience in the field of Plant Designing like DM Plant, Reverse Osmosis & Waste Water Treatment Plants.

## Global Partnerships

Overview of partner companies and global affiliations.



We are representing world's well-known companies and manufacturers for their chemical & equipments in Pakistan. Our major international business partners are following:

**VEOLIA Water Tech**

Europe



**DUPONT**

USA



**APC GROUP**

Hong Kong



**BUSSETTI**

Austria



**ETATRON**

Italy



**ANDRIITZ**

China



**STAIRS**

Taiwan



**CANPURE**

China / Italy



# UPSTREAM CHEMICALS

**VEOLIA Water Tech**



[www.watertechnologies.com](http://www.watertechnologies.com)

## Veolia Water Technologies & Solutions

**Chemical Kinetics** proudly partners with **Veolia Water Tech**, a global leader in upstream oilfield chemicals, to bring advanced solutions to Pakistan's oil and gas industry. **Veolia's** ProSolv™ suite covers flow assurance, asset integrity, and phase separation, offering products like demulsifiers, defoamers, inhibitors, drag reducers, and more—designed to enhance recovery, extend asset life, and ensure safe operations.

Backed by world-class R&D centers in the USA, Belgium, Brazil, India, and beyond, **Veolia Water Tech** pioneers innovations in formulations and predictive tools like WaxPerT and CrudePLUS. Through Chemical Kinetics, these solutions are locally supported to help reduce lifting costs, improve production, safeguard equipment, and meet environmental standards—delivering the future of digitally optimized oilfield chemical management in Pakistan.

## Veolia Water Tech – Key Product Range

### Flow Assurance

- Scale Inhibitors
- Paraffin & Asphaltene Inhibitors
- Kinetic Hydrate Inhibitors (KHI) & Mercury Removal Agents

### Asset Integrity

- Corrosion Inhibitors & H<sub>2</sub>S/Oxygen Scavengers
- Biocides (Oxidizing/Non-oxidizing) & System Cleaners

### Phase Separation & Water Treatment

- Demulsifiers & Reverse Emulsion Breakers
- Water Clarifiers & Defoamers



# WATER TREATMENT CHEMISTRY

**VEOLIA Water Tech**

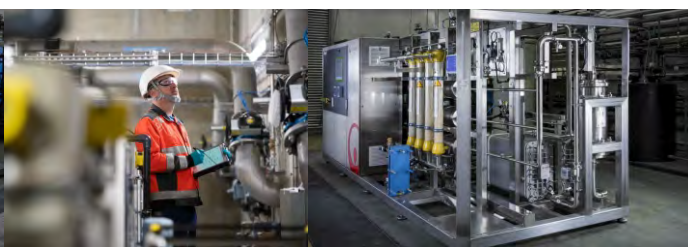


[www.watertechnologies.com](http://www.watertechnologies.com)

## **Veolia Water Technologies & Solutions**

Veolia Water Technologies & Solutions is a global leader and trusted provider of advanced water, wastewater, and process treatment solutions for industrial and municipal applications. With decades of international expertise, extensive research capabilities, and operations across multiple continents, Veolia delivers innovative, sustainable, and performance-driven technologies that support industries in achieving operational efficiency, environmental compliance, and resource optimization. The company serves a wide range of sectors including oil & gas, petrochemicals, power generation, mining, food & beverage, pharmaceuticals, marine, and heavy industries. Veolia offers a comprehensive portfolio of specialized treatment chemistries and engineered solutions developed for demanding industrial environments where reliability, safety, and performance are critical. Its expertise includes upstream oilfield chemicals, cooling and boiler water treatment, reverse osmosis (RO) solutions, wastewater recycling, desalination technologies, process optimization, and advanced digital monitoring systems.

- Cooling water treatment for open and closed loop systems
- Boiler water treatment and chemical cleaning solutions
- Refinery, fertilizer, and chemical process treatment programs
- Water treatment solutions for power, steel, pharmaceutical, and food industries
- Reverse osmosis (RO), desalination, potable water, and pre-treatment solutions
- Wastewater treatment, bio-control programs, and industrial process optimization



## Cooling Water Treatment

**VEOLIA Water Tech** cooling water treatment products and technologies include:

- A comprehensive range of pre-commission cleaning, flushing and passivating agents. Inhibitors to control scale corrosion and fouling.
- A wide range of oxidizing and non-oxidizing biocides, biodispersants and microbiological control systems that can protect the wet and warm surfaces which normally attract microorganisms. If uncontrolled, the resulting bio-films can result in microbiologically influenced corrosion and system efficiency issues.
- Computer simulation programs to optimise the system with respect to saturation indices, retention times, half life, cycles of concentration and choice of treatment. Selection of water treatment programmes is made on technical and cost merits, which in turn requires specialist knowledge of our sales engineers and technical centre.



## Boiler Water Treatment

At **VEOLIA Water Tech** we provide a complete range of products suitable for every type of boiler from low pressure steam generators to high pressure water tube systems, including:

- Volatile and non volatile oxygen scavengers
- Phosphate residual programs
- All polymer programs
- Alkalinity builders
- Defoamers
- Sludge conditioners
- Condensate treatments
- A comprehensive range of filming, neutralising and combined amines for condensate treatment and pH correction boilers of a high evaporative rate and heat flux.



## Reverse Osmosis Plant Chemicals

**VEOLIA Water Tech** provides a comprehensive range of high-performance Reverse Osmosis (RO) plant chemicals, engineered to optimize membrane life and system efficiency. Fully compatible with all major membrane types, these formulations are approved by leading global membrane manufacturers and certified under NSF Standard 60. Effective across brackish, seawater, and freshwater applications, **VEOLIA Water Tech** chemicals perform efficiently even at low dose rates and across the full pH spectrum. These solutions are also compatible with polyelectrolytes used in pre-treatment. Additionally, **VEOLIA Water Tech's** portfolio includes environmentally responsible green chemistries that are fully biodegradable, ensuring zero biofouling risk and supporting sustainable, cost-effective RO plant operation.



# WASTEWATER CHEMISTRY

**CHEMICAL KINETICS** PAKISTAN



[www.ChemicalKinetics.co](http://www.ChemicalKinetics.co)

Specialty Chemicals for Wastewater Treatment play a vital role in enhancing the efficiency and reliability of effluent treatment processes across various industries. **Chemical Kinetics** offers a comprehensive range of advanced formulations tailored for specific stages of wastewater management. From Polyacrylamide (PAM) for solid-liquid separation to custom industrial flocculants and canal water clarifiers, each product is designed for optimal performance. Sedimentation aids, sludge thickeners, and dewatering flocculants streamline sludge handling, while textile decolorizers improve effluent quality by reducing color and organic load. These solutions support environmental compliance, reduce operational costs, and promote sustainable wastewater recycling and reuse.



## Effluent & Wastewater Solutions

- Polyacrylamide (PAM): High-efficiency flocculant for solid-liquid separation.
- Industrial Wastewater Flocculants: Customized blends for diverse manufacturing processes.
- Canal Water Clarifiers: Reduce turbidity and remove suspended solids.
- Sedimentation Aids: Improve settling in biological treatment systems.
- Sludge Thickening Aids: Enhance sludge concentration and reduce disposal costs.
- Dewatering Flocculants: Ideal for use in belt press filters, centrifuges, and vacuum filters.
- Textile Decolorizers: Effective in color removal and improving COD/BOD levels in dyeing industry effluents.





# WASTEWATER TREATMENT PLANTS

**CHEMICAL KINETICS** PAKISTAN



[www.ChemicalKinetics.co](http://www.ChemicalKinetics.co)

## Comprehensive Wastewater Treatment Services

### Equipment Supply

- Advanced treatment technologies: Clarifiers, aeration systems, membrane filtration, and more.
- High-quality chemical dosing systems for optimized process performance.

### Custom Plant Design

- Tailored designs for wastewater treatment and recycling.
- Integration of pre-treatment, biological treatment, and advanced polishing technologies.

### Consultancy Expertise

- Feasibility studies and site evaluations.
- Process optimization to enhance efficiency and reduce costs.
- Compliance advisory for regulatory and environmental standards

We are providing Waste water treatment solution to a wide range of industry which includes;

- |                    |                                |                                  |
|--------------------|--------------------------------|----------------------------------|
| ■ Textile industry | ■ Chemical Processing industry | ■ Fruit and vegetable processing |
| ■ Sugar industry   | ■ Food and Beverages           | ■ Dairies                        |
| ■ Cement Plant     | ■ Leather and Tanneries        | ■ Paper and Pulp Industry        |

### Primary Treatment

- ▶ Screening
- ▶ Flow Equalization
- ▶ Grit Removal
- ▶ Sedimentation
- ▶ Primary Clarifier
- ▶ DAF (Dissolved Air Flotation) System
- ▶ Oil & Grease Separation

### Secondary Treatment

- ▶ Activated Sludge Process
- ▶ SBR (Sequencing Batch Reactor)
- ▶ Anaerobic Digestion
- ▶ Oxidation Ditches
- ▶ MBR (Membrane BioReactor)
- ▶ MBBR (Moving Bed BioReactor)
- ▶ Secondary Clarifier

### Tertiary Treatment

- ▶ Disinfection
- ▶ UF (Ultrafiltration)
- ▶ Sand Filters
- ▶ RO Plant



# WASTEWATER RECYCLING PLANTS

**DUPONT Water Solutions** USA



[www.dupont.com](http://www.dupont.com)

## UltraFiltration (UF) System

DuPont's UltraFiltration (UF) systems utilize advanced PVDF membranes to ensure high-performance water recycling, offering reliable treatment and robust solutions for industrial wastewater reuse, helping industries meet sustainability and quality standards effectively.

### Key Features

#### Superior Membrane Technology

High durability and resistance to fouling, delivering consistent low turbidity (<0.1 NTU).

#### Efficient Design

Compact, modular structure suitable for new installations and retrofits.

#### Cost-Effective

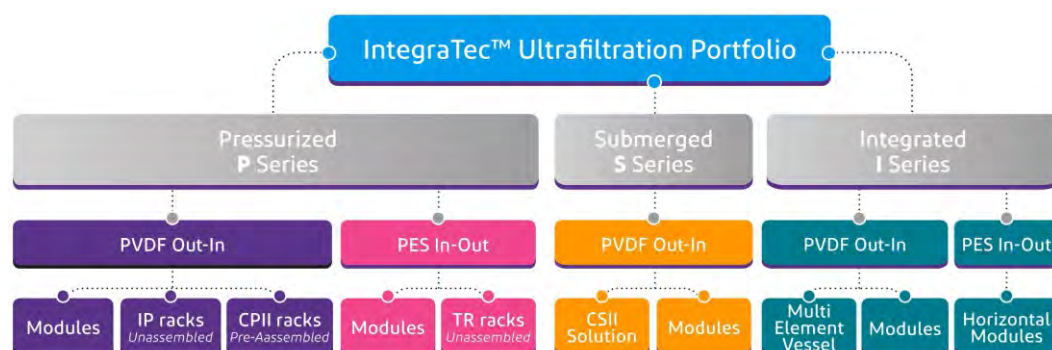
Optimized CIP intervals and reduced chemical usage lower operational costs.

### Advantages at a Glance

- High recovery rates up to 95%.
- Consistent water quality for industrial reuse.
- Sustainable operation with minimized energy and chemical demands.

### Applications

- Industrial wastewater recycling.
- Pre Treatment for RO Systems
- Compliance with stringent environmental standards.



# PULP & PAPER CHEMISTRY



[www.amazon-papyrus.com](http://www.amazon-papyrus.com)

**AMAZON PAPYRUS** HONG KONG

## Specialty Chemicals for Pulp & Paper Industry

**APC Group** is leading supplier to the Pulp and Paper Industry in Asia. We supply Process Solutions to many of the world class mills in the region. When you choose us as your Specialty Chemical supplier, you get much more than the chemicals. The complete package includes quality service to ensure that the best products are added in the right areas to your system at the optimum dose rates. You get 'state-of-the-art' equipment systems designed for reliability, safety and ease-of-use. Most importantly, you get world class technical support and service from the most experienced people in your industry.



## Full Range of Paper Processing Chemicals

### PULP & DIP

- Defoamer/Washing Aid
- Digester Cooking Aid
- Effluent Sludge Thickener
- Felt Cleaner/Conditioner
- Green Liquor Polymer
- Lime Mud Dewatering Agent
- Pitch Dispersant
- Pulp Dryer Drainage Aid

### PRINTING & WRITING

- Antifoam
- Antiscale
- Boilout
- Drier Fabric Cleaning
- Felt Conditioning
- Microbiological Control
- Pitch Control
- Retention Aid
- Roll Release
- Wed/dry Strength

### PACKAGING & BOARD

- Antifoam
- Antiscale
- Boilout
- Drier Fabric Cleaning
- Felt Conditioning
- Microbiological Control
- Pitch Control
- Retention Aid
- Roll Release
- Stickies Control
- Wed/dry Strength

### TISSUE

- Antidusting
- Antifoam
- Antiscale
- Boilout
- Converting Adhesives
- Creping & Release
- Felt Conditioning
- Fragrances
- Lotions & Balms
- Microbiological Control
- Pitch Control
- Softeners
- Stickies Control

# SUGAR & DISTILLERY SOLUTIONS

**CHEMICAL KINETICS** PAKISTAN



[www.ChemicalKinetics.co](http://www.ChemicalKinetics.co)

Pakistan ranks as the sixth-largest sugar producer globally, with sugar being the country's second-largest agro-based industry. Ethanol production from molasses continues to grow steadily each year, contributing significantly to the economy.

**Chemical Kinetics** is proud to serve this vital sector by offering a complete range of specialized chemical solutions for efficient sugar processing and distillery operations, ensuring improved productivity, process optimization, and regulatory compliance.



## Sugar Processing Chemicals

- Polyelectrolyte / Flocculants for juice clarification
- Polyelectrolyte / Flocculants for floatation aid
- Decolorizing agent
- Biocides
- Defoamer
- Antiscalant
- Enzymes (Improve profitability through process efficiency)



## Molasses Distillery Solutions

- Enzymes for fermentation
- Antifoam (Food Grade)
- Antiscalant
- Antibiotic



# DEFOAMERS & EMULSIFIERS



Austria

[www.bussetti.at](http://www.bussetti.at)

As specialists in industrial auxiliaries with a global customer base, **Bussetti & Co. GmbH** looks back on over eighty years of experience in many diverse fields. As a global player and major buyer of internationally traded commodities, **Bussetti & Co. GmbH** offers a wide range of products.

As a specialist supplier of chemical solutions for the paper, pulp and wood industries, **Bussetti & Co. GmbH** develops high-grade defoamers, deaerators, dewatering agents and dispersing agents.

Bussetti products provide customers with visible benefits in quality improvement and the optimisation of processes and costs. **Bussetti** customised solutions and innovations pay dividends in international competition.

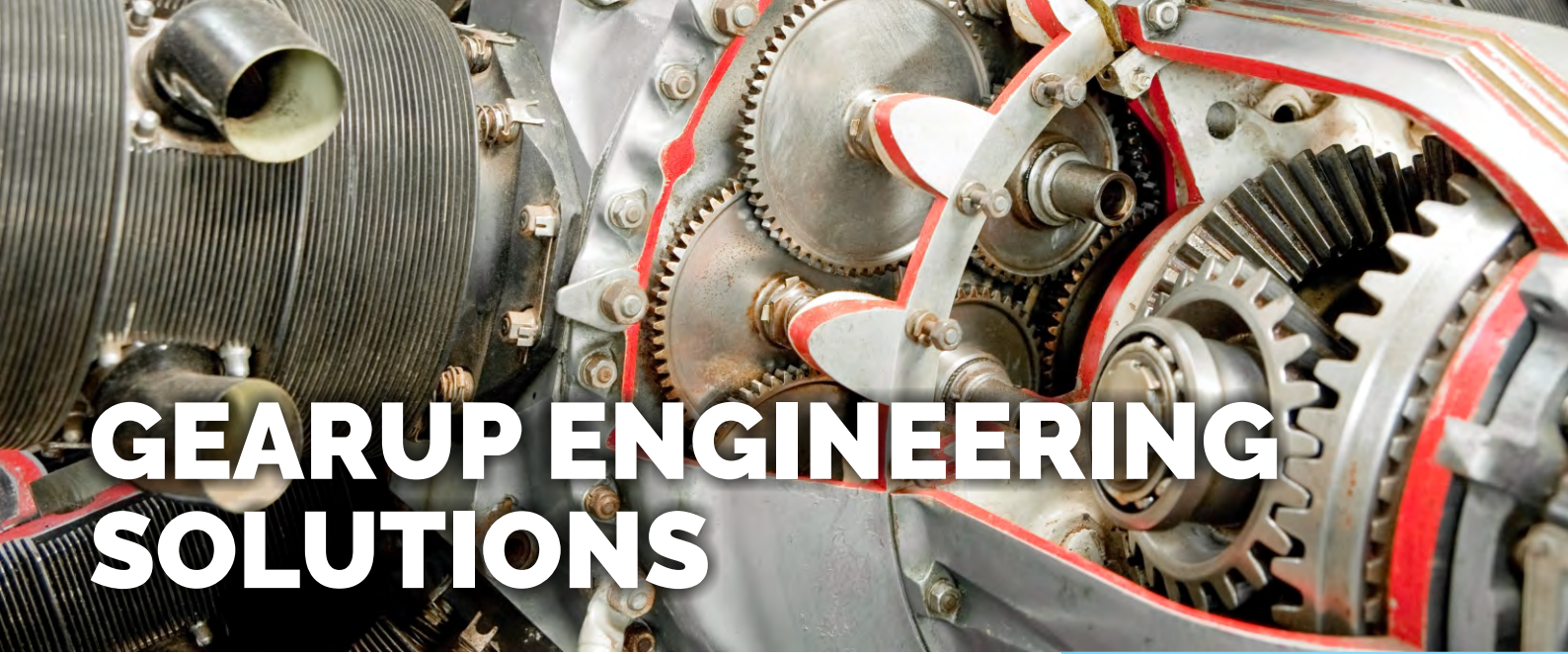


## Range of Products

As leading Austrian manufacturer **Bussetti & Co.** produces the following industrial auxiliaries:

- Defoamer for the paper & pulp industry
- Defoamer, releasing agents and cleaners for the wood based panel industry
- Defoamer and emulsifiers for biotechnology applications (sugar, alcohol, pharmaceutical, yeast and fermentation industry)
- Fattening agents and other auxiliaries for the leather and fur production
- Auxiliaries for textile care and cleaning





# GEARUP ENGINEERING SOLUTIONS

**CHEMICAL KINETICS** PAKISTAN



[www.ChemicalKinetics.co](http://www.ChemicalKinetics.co)

Chemical Kinetics delivers high-quality engineering and manpower solutions for critical industrial operations. Leveraging skilled teams, advanced technology, and proven methodologies, we address complex operational and maintenance needs with precision.

Our tailored services enhance asset reliability, efficiency, and lifespan across industries such as power generation, oil & gas, petrochemicals, and manufacturing, ensuring uninterrupted operations, regulatory compliance, and measurable performance improvements for our clients.

## Operations & Maintenance

- Complete Plant Operations & Maintenance
- On-Site Field Services
- Routine & Preventive Maintenance
- Planned Turnarounds & Outages
- Major & Minor Overhauls
- Hot Gas Path & Combustion Inspections
- Advanced Borescope Inspections

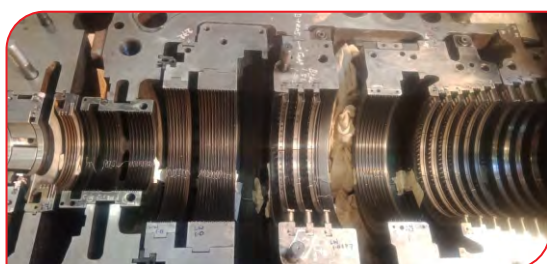
## Technical & Support Services

- Expert Supervision & Skilled Craft Labor
- Specialist Consultancy
- Heavy Electrical Equipment Testing
- Precision Laser Alignment, Repair & Replacement
- Spare Parts & Consumables Supply
- Certified Manpower Deployment

## Manpower Services

### Steam Turbines

Our skilled engineering teams deliver comprehensive maintenance and overhaul services for steam turbines, ensuring peak efficiency and extended operational life. Combining advanced diagnostics with precision workmanship, we support clients in achieving optimal performance, reduced downtime, and dependable output in power generation and industrial applications.



## Gas Turbines & Compressors

From hot gas path inspections to complete overhauls, our highly trained manpower provides unmatched service quality for gas turbines and compressors operating in the most demanding conditions. By combining advanced diagnostic tools, precision engineering practices, and deep technical expertise, we help ensure maximum reliability, safety, and efficiency. Our solutions extend equipment lifespan, reduce downtime, and support uninterrupted performance for mission-critical energy and industrial infrastructure.



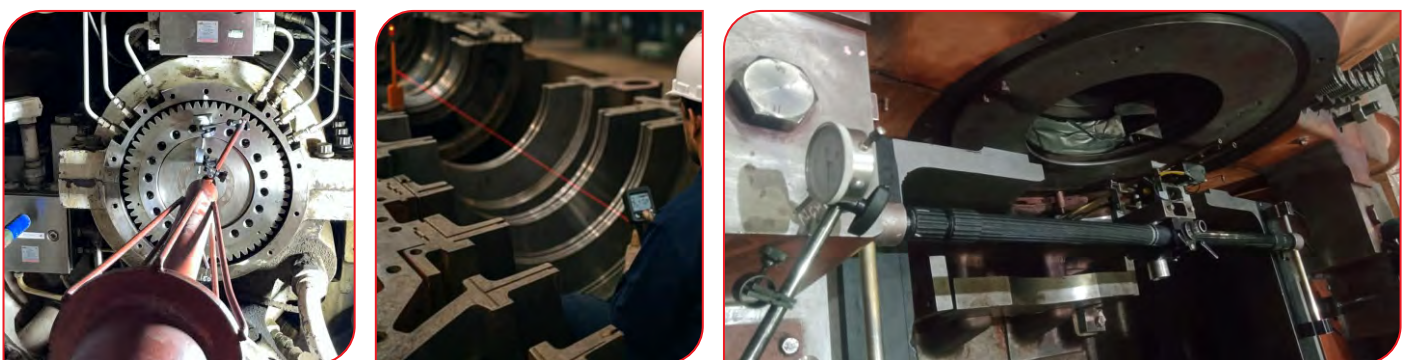
## Generators

Our highly trained teams deliver comprehensive servicing solutions for industrial generators, covering preventive maintenance, precise fault diagnosis, and expert component replacement. With a strong focus on operational reliability, consistent power delivery, and minimal downtime, we ensure uninterrupted performance for diverse industries, mission-critical operations, and demanding environments where power stability is essential.



## Precision Alignment

We utilize advanced laser and precision mechanical alignment techniques for rotating equipment, effectively minimizing vibration, preventing premature wear, and enhancing energy efficiency. Our skilled alignment specialists ensure optimal machinery performance, protecting equipment longevity, reducing maintenance costs, and maintaining uninterrupted production across critical industrial applications.



## Testing & Commissioning

We provide end-to-end testing and commissioning services, including transformer, motor, and switchgear testing, cable scheduling, E&I equipment calibration, I/O mapping, loop testing, transformer dehydration, and PLC panel installation—ensuring flawless system performance, safety compliance, and smooth project handover for industrial and power sector clients.

- Testing of all types of transformers, motors & switchgears.
- Cable schedule & laying plans
- Installation & calibration of all E & I equipments
- IO's mapping & distribution
- Cold & Hot & function tests (loops)
- Dehydration of Transformers
- Installation of PLCs Panels



## Component & Inventory Management

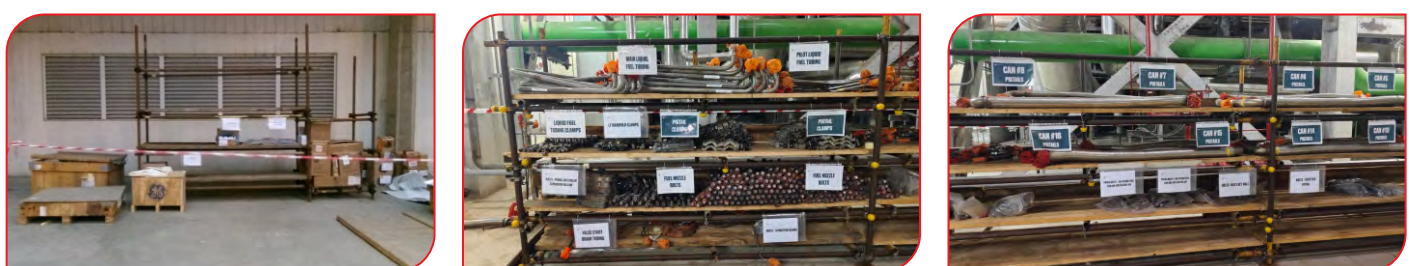
### Tools & Spare Parts

With specialized tools and a reliable supply of genuine OEM spare parts, our teams perform maintenance with speed, precision, and consistency. This approach minimizes downtime, maintains high-quality standards, and ensures full compliance with industry best practices and manufacturer specifications for optimal equipment performance.



### Component Segregation

Our systematic approach to component segregation during inspections and overhauls guarantees precise identification, organized handling, and efficient reassembly. By maintaining strict quality control, we minimize errors, improve operational safety, and enable faster project turnaround, ensuring equipment reliability and performance across diverse industrial applications.



# Projects & Installations

Chemical Kinetics executes turnkey projects, from equipment installation to commissioning, with complete project management support. Our team ensures that each project meets strict timelines, safety standards, and operational requirements. Whether for new systems or upgrades, we deliver reliable, cost-effective solutions tailored to client specifications.



## Industries Served

- Power Generation (Thermal, Hydro, Nuclear, Renewable)
- Oil & Gas (Upstream, Midstream, Downstream)
- Petrochemical & Refining
- Chemical Processing
- Fertilizer & Agriculture Processing Plants
- Cement & Construction Materials
- Steel & Metal Processing
- Mining & Minerals
- Textile Manufacturing
- Paper & Pulp Mills
- Food & Beverage Processing
- Pharmaceutical Manufacturing
- Water & Wastewater Treatment
- Desalination Plants
- Industrial Packaging & Bottling
- Shipbuilding & Marine Engineering
- Automotive & Heavy Vehicle Manufacturing
- Renewable Energy Installations (Wind, Solar, Biomass)
- Industrial Equipment OEMs & Service Providers



# ENGINEERING BUSINESS

**CHEMICAL KINETICS** PAKISTAN



[www.ChemicalKinetics.co](http://www.ChemicalKinetics.co)

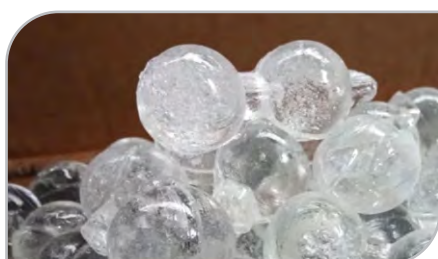
## Reverse Osmosis (RO) Systems

Manufacturing of Reverse Osmosis Systems is a fast growing business of **Chemical Kinetics**. Hundreds of R.O. plants, with capacity upto 150 m<sup>3</sup>/hr, have been successfully installed in many industries all over Pakistan. In recent years company has achieved many milestones in this field. **Chemical Kinetics** has best team of professionals for all aspects of plants from designing to commissioning.

- Sea & brackish water reverse osmosis systems
- High quality R.O. Components from USA / Europe
- High quality corrosion resistant material of construction
- High pressure pumps by USA / Europe
- Suitable for continuous and heavy duty operations
- Low capital and operational costs
- Compact space-saving construction
- Production of high quality drinking water for villas, restaurants & bottling plants
- Complete automation of the operating systems
- Completely portable units in containers available on request

### Chemical Kinetics also deals in:

- Membrane Cleaning (CIP) Chemicals
- Antiscale and biocide for R.O. plants
- Chlorination and dechlorination Chemicals



## Water Softening Plants

Water Softening Plant is an equipment that removes hardness/scale causing salts from hard water. It is achieved by ion-exchange technique. Normally, strong Cation Exchange resins are used in water softening plants. These resins remove all Calcium ( $\text{Ca}^{++}$ ) & Magnesium ( $\text{Mg}^{++}$ ) salts that cause scale in water systems.

- Suitable solution for low TDS Water
- Complete removal of calcium and magnesium
- Suitable for low-pressure boilers
- Suitable for cooling towers
- Very cost-effective and simple in operation
- With manual and automatic operation (Optional)
- With metallic or FRP vessels (Optional)
- With high quality cation resin
- With quality parts from Europe / USA



## Demineralization (DM) Plants

D.M. plants remove all salts by ion exchange technique. This is achieved by using two columns of ion exchangers simultaneously i.e., cation & anion beds. Some special plants may have both (i.e., cation & anion) resins in one column as mixed bed column.

Chemical Kinetics has designed, installed and commissioned a number of Water Softening Plants and D.M. Plants, with capacity up to 150 m<sup>3</sup>/hr, in last few years. The performance of these water treatment plants has been proven excellent.

- Suitable for high pressure boilers
- Can achieve water quality of  $<0.2 \mu\text{S/cm}$
- With manual and automatic operation (optional)
- With metallic or FRP vessels (Optional)
- With high quality anion and cation resin
- With quality parts from Europe / USA

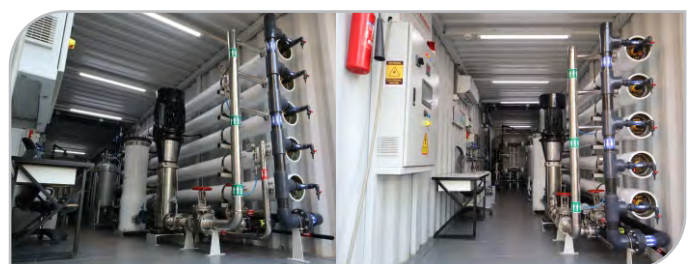


## Containerized RO Plants

For remote or space-limited locations, we offer containerized RO systems—fully pre-installed, factory-tested, and ready for quick deployment. These plug-and-play units are ideal for industries requiring portable, robust, and compact water treatment solutions with minimal on-site work.

### Advantages:

- Quick installation and commissioning
- Reduced site civil work
- Fully enclosed, weatherproof containers
- Available in standard 20ft & 40ft units
- Integrated controls, dosing, and CIP systems



# DOSING & CONTROL SYSTEMS



**ETATRON** ITALY



[www.etatronds.it](http://www.etatronds.it)

## Chemical Dosing Pumps

**Etatron**, a globally recognized leader in dosing systems, has maintained a strong market presence for over thirty years. With operations in more than 62 countries, the company has consistently achieved ambitious goals and international visibility. Currently, 70% of its products are exported worldwide from Italy, reinforcing its position in the global market.

### 1. Complete Range Of Dosing Pumps

Chemical dosing pumps are divided into 03 main categories solenoid driven, Motor-driven and peristaltic metering pumps. These pumps provide proper control for specific applications and multiple needs.

#### a) Solenoid Driven Pumps

Solenoid driven pumps provide accurate output with more advanced controls. These have the ability to accept a contacting-head water meter signal to treat based on flow. The contacting-head water meter sends a signal to the pump when a defined volume of fluid passes through it. This causes the pump to actuate and feed a predetermined volume of chemical. Pump can be connected to a level wand to shut down when chemical tank is low or feed proportionally via a 4-20 mA electronic signal.

**PKX Series:** Simple, reliable, and compact—ideal for light-duty applications like pools, car washes, and general water treatment.

**eONE Series:** A new generation of pumps designed for dependable chemical dosing in commercial and industrial water treatment.

**DLX Series:** Suitable for industrial use, offering manual and proportional dosing via mA signal with a digital display for ease of use.

**BT Series:** Microprocessor-based, multi-function wall-mounted pumps with the precision and flexibility of digital electronics.

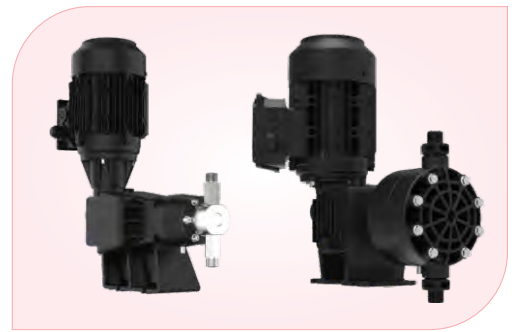


## b) Motor Driven Pumps

The mechanical (motor-driven) diaphragm metering pump is known for its simplicity and reliable output. It typically features a single adjustment knob, with options like manual stroke control, 4–20 mA input, and safety valves. Two types are available:

**Piston Type** – Ideal for high-pressure, non-abrasive fluids.

**Diaphragm Type** – Suitable for abrasive fluids or where leak-free operation is critical.



## c) Peristaltic Dosing Pumps

The peristaltic pump differs from the mechanical and electromagnetic pumps by using a tube instead of a diaphragm to introduce chemicals into the system. It provides a consistent feed without the problem of losing prime. The peristaltic is a good choice for applications where loss of prime is a problem.



## 2. Etatron Control Instruments

**Etatron's** advanced microprocessor-based controllers precisely measure and regulate pH, Redox (ORP), Chlorine, and other key parameters. Available in wall or panel-mounted models, they support up to three parameters and work with robust ion-selective sensors. Plastic or glass-body probes ensure reliable performance in industrial processes and water treatment applications.



## 3. Control & Regulation Instruments

**Etatron** also offers dosing pump & pH, RX (ORP) or conductivity controller built into one compact unit. It has provision of measuring 1-2-3 parameters & can be designed by keeping in view the clients requirement.



## 4. Flow Meters, Mixers & Tanks

**Etatron** offers water meters for hot and cold water, including threaded, flanged, and mag meters (DN15–DN600). Mixers suit up to 1000L vessels with PP/SS316 shafts, 0.18–1.5 kW motors, and 70–140 RPM speeds. Graduated chemical tanks (60–1040L) are made from UV-stabilized, food-grade polyethylene.



# INDUSTRIAL PUMPS

**ANDRITZ** CHINA

**ANDRITZ**

[www.andritz.cn](http://www.andritz.cn)

## Proven Performance, Engineered Excellence

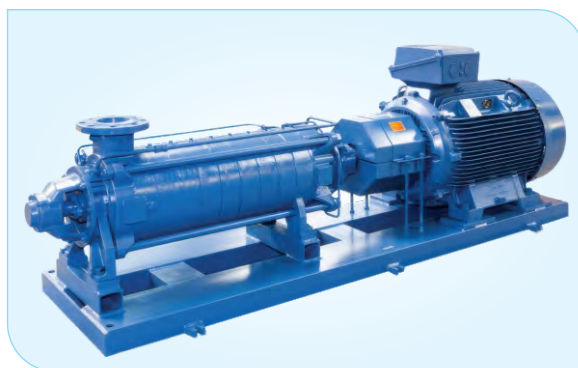
**ANDRITZ** industrial pumps represent state-of-the-art engineering built for high-performance and durability in demanding applications. These include single-stage and multi-stage centrifugal pumps, ideal for water supply, wastewater treatment, process industries, and power generation. Constructed with robust materials and precision-balanced components, they ensure efficient fluid handling, low maintenance, and long service life. With a reputation for German precision and innovation, **ANDRITZ** pumps deliver unmatched reliability and energy efficiency for continuous heavy-duty operations across industrial sectors.

## Applications

**Andritz** pumps are widely used in wastewater treatment, pulp and paper, power generation, mining, irrigation, desalination, and flood control applications across industrial and municipal sectors.

## Features

- High efficiency with low energy consumption
- Robust, heavy-duty construction
- Wide flow & pressure range
- Single & multistage configurations
- Easy maintenance with modular design
- Corrosion & wear resistance for tough fluids



# CENTRIFUGAL PUMPS

## STAIRS PUMPS TAIWAN Industrial-Grade Centrifugal Pumps



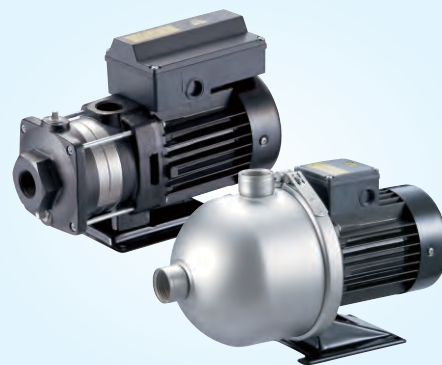
[www.stairs.com.tw](http://www.stairs.com.tw)

**STAIRS** is a global manufacturer of high-quality centrifugal pumps, known for precision engineering and durable performance. STAIRS pumps serve industrial, agricultural, and commercial sectors with reliable solutions for water supply, pressure boosting, and fluid transfer. Their robust design ensures long service life and energy efficiency.

### Horizontal Multistage Centrifugal Pump **CB / CBI / HBI / HBN series**

#### Applications

- Domestic
- Pressure boosting
- Air-conditioning systems
- Cooling systems or cooling machine
- Liquid transfer and circulation of liquids within light
- industry and farming



### Vertical Multistage Centrifugal In-line Pump **SB/SBI/SBN series**

#### Applications

- Light industry
- Water treatment
- Irrigation and agriculture
- Water supply and pressure boosting
- Heating , ventilation and air-conditioning



# CP SERIES EDI MODULES

**CANPURE** CHINA / ITALY  
**Membranes for Better Lives**



[www.canpure.com](http://www.canpure.com)

## Product Profile

Based on the traditional EDI technology, revolutionary innovation is carried out to the internal structure of **Canpure** EDI Module with counter-current full-packing technique adopted, which broadens the water supply requirements of EDI, features simple operation and results in low operating costs.

## Product Features

### No Salt Injection

**Canpure** EDI does not consume salt and recycle the concentrate in operation, which saves much expense and makes the system much simpler.

### Counter Current

Concentrate and electrolyte stream are flowing into EDI in opposite directions to feed water can avoid fouling effectively, then it broadens the feed water limit adequately.

### Low Energy Consumption

**Canpure** EDI filled with resin reduces the EDI module resistivity significantly, which reduces the energy consumption largely.

### High Quality Materials & Components

High quality ion-exchange membrane and appropriate degree of resin compaction make the EDI work effectively.

### Simple Arrangement, Installation, Operation & Electricity Safety

Easier to array modules side-by-side on a skid. The power connector of **Canpure** EDI is waterproof.



# MEMBRANES & RESINS

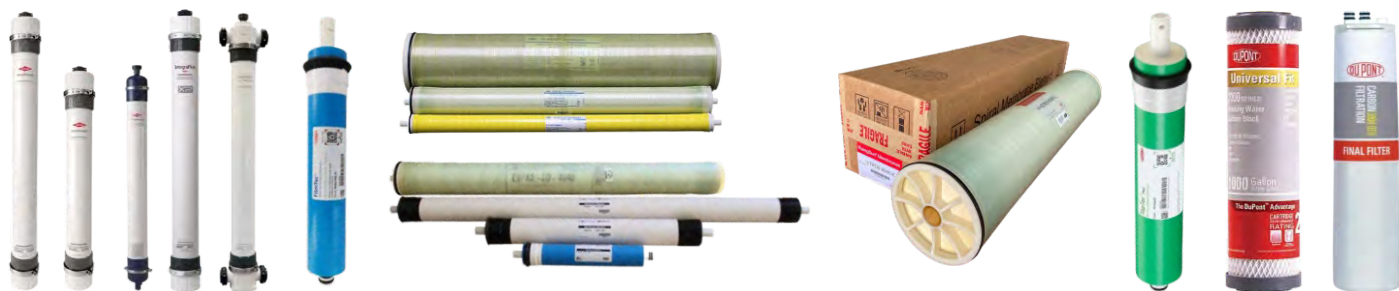
**DUPONT Water Solutions USA**  
**Better Things for Better Living...**



[www.dupont.com](http://www.dupont.com)

## ◀DUPONT▶ Membranes For Reverse Osmosis Systems

DuPont™ manufactures premium reverse osmosis and nanofiltration elements for industrial, municipal, commercial, and residential water treatment. Customers include OEMs, engineering firms, water service providers, and utilities. These partners serve diverse end users across power generation, semiconductors, chemical processing, food & beverage, and municipal sectors. With a strong reputation for innovation and quality, **DuPont** membranes ensure efficient, reliable performance in a wide range of applications—from complex industrial processes to safe drinking water solutions.



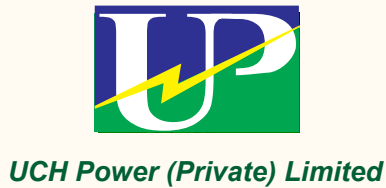
## ◀DUPONT▶ ROHM HAAS Ion Exchange Resins

Ion exchange resins act as "chemical sponges," removing contaminants from water and other liquids through reversible ion interchange. They are ideal for industrial water demineralization, softening, and wastewater recycling, offering high recovery, low waste, and flexible operation. These resins also serve specialized sectors like chemical processing, mining, pharmaceuticals, and food industries. **DuPont's AMBERLITE™ and AMBERJET™** resins, originally from Rohm & Haas, are globally recognized for their reliability and superior ion exchange performance.



# Our Valuable Customers

Key industries and clients served by Chemical Kinetics across Pakistan.

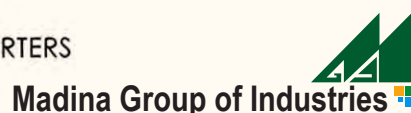
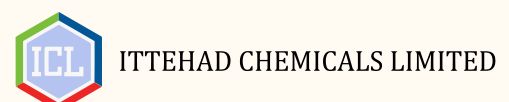


**Sitara Chemical Industries Ltd.**



# Our Valuable Customers

Key industries and clients served by Chemical Kinetics across Pakistan.





Scan QR Code for  
Company Contact Details



**CHEMICAL KINETICS**  
[www.chemicalkinetics.co](http://www.chemicalkinetics.co)



**376 G-III JOHAR TOWN, LAHORE - PAKISTAN.**



+92 42 111 222 221



+92 346 477 1300



+92 42 3529 0559



[info@chemicalkinetics.co](mailto:info@chemicalkinetics.co)



[ChemicalKinetics.co](https://www.facebook.com/ChemicalKinetics.co)



[Chemical-Kinetics](https://www.linkedin.com/company/Chemical-Kinetics)

#### **KARACHI**

CM-7, First Floor,  
Block A, Kazimabad,  
Model Colony, Karachi  
C: 0345-846 1133

#### **ISLAMABAD**

25 Shams Colony,  
Islamabad  
Pakistan  
C: 0345-842 2066

#### **FAISALABAD**

39/1, Street-3, Taj Colony,  
Sargodha Road,  
Faisalabad  
C: 0300-846 9895

#### **MULTAN**

112 C-Block,  
Shah Rukn-e-Alam,  
Multan  
C: 0301-841 1611