



Aquaprime®

**Industrial Water
Treatment Programs**

Engineered By

Prime Chemicals Corporation (Pvt) Ltd.

Water Management Solutions

www.primechemicalscorp.com



PRIME CHEMICALS CORPORATION (PVT) LTD.

Water Management Solutions

About Us

PCC is established with the goal of providing high quality services

- Present in the marketplace since 1983
- High quality products and services coupled with knowledge and experience in watertreatment
- Exploring and adopting new technologies to constantly improve our products andservices
- Trusted partner of numerous multinational, national and government organization

Our Mission

Excellent results with cost effective solutions

- To help our customers improve their efficiency by conserving energy and water
- To build strong relationship with our customers
- To set the highest standards in corporate ethics in serving the society
- To deliver environmentally responsible and cost-effective water treatmentsolutions
- To attract and retain outstanding people by creating a culture that fosters openness and innovation, promotes individual growth and rewards initiative and performance

Presence in the country

We offer water treatment solutions nation-wide

- We are providing water treatment products and services all over Pakistan through our offices in Karachi, Lahore and Islamabad
- Our manufacturing and warehousing facility is located in Karachi

Customized Solutions for Water Treatment

We are successfully providing consultancy, products and services in various industries such as food, pharmaceutical, edible oil, detergent, textile, hospitals and commercial buildings etc. This immense experience gives us the expertise to precisely design a program that meets client's needs based on an in-depth study of their facility.

Services we offer...

Consultancy

PCC provides consultancy for the following:

RO Plant Treatment

We offer total solution for RO plants with wide range of product line of antiscalant, antifoulants, sanitizing and preservative agents and cleaners.

Cooling Water Treatment

Our extensive range of imported and locally manufactured cooling water treatment chemicals have been specifically developed to be used across a wide variety of commercial, industrial and process applications including water chiller, cooling towers, heat exchangers, condenser, compressor and generators etc.

Boiler Water Treatment

PCC extensive range of advanced boiler water treatment chemicals have been specifically developed to be used across various industrial boiler treatment applications. These superior quality boiler products and additives focus on improving the operational efficiency of boilers and steam generators by offering most appropriate solutions to the problem associated with such installations; namely scale formation, corrosion, boiler water carryover and sludge deposition.

Waste Water Treatment

Efficient treatment of waste water has always been a challenge, no two process waters are alike and PCC understands the unique characteristics and challenges our customers' face. Filtering usually requires a two- step process:

- Chemical separation
- Mechanical separation



PCC connects knowledge of chemistry, innovation and technology with the right equipment and chemicals to solve the most challenging problems and deliver results.

Cleaning Support

Every heating, cooling and chilling system in industrial or commercial application requires routine maintenance products for cleaning services. We provide expert recommendation for cleaning chemicals with consideration of metallurgy and maintenance requirement of the individual systems.

Chemical & Plant Support Services

We believe in mutual beneficial relationship with our customers and understand that our success lies in the total customer satisfaction. To achieve this objective we continuously strive to attain most appropriate and advance technologies to provide quality services:

Regular Support Services

Our services include sampling, testing, cleaning and maintenance of boilers, cooling systems, reverse osmosis plants, dosing pumps, monitoring and control equipment. We provide scheduled site visits for proactive monitoring of systems for smooth operation.

Electro Mechanical Services

PCC provides complete services for equipment installation, modification and maintenance work related to all areas of water treatment including mechanical, electrical, plumbing and instrumentation.

PCC has an edge over other service providers with the specialized services as under:

- Pre-commissioning cleaning of Genset and Closed circuits
- Annual maintenance of Boilers and Cooling towers



Systems we deliver...

RO Plants

Scarcity of good quality water has increased our dependence on ground water sources. This brackish or saline water is unfit for drinking or for industrial use unless properly treated. Reverse osmosis, a membrane desalination process increasingly used worldwide, purifies brackish water for drinking and industrial purposes.

We provide complete solution of reverse osmosis plant right from feasibility to the commissioning.



Media Filtration Plants

The removal of suspended and colloidal particles by media filtration is based on their deposition on the surface of filter grains while the water flows through a bed of these grains. The quality of the filtrate depends on the size, surface charge, and geometry of both suspended solids and filter media as well as on the water analysis and operational parameters. We provide following filters:

Carbon Filtration

Activated carbon is widely used in water filtration systems. Carbon is very effective at improving taste, removing chlorine and many other contaminants. Since organic chemicals are often responsible for taste, odor, and color problems, AC filtration can generally be used to improve aesthetically objectionable water.

Iron Removal Systems

One of the most common contaminants of well and even municipal water systems is iron. Iron contamination can be found in two general forms, ferric iron which consists of particles of solid iron (rust) that can be removed by physical water filter (sediment filters) and ferrous or dissolved iron which must be removed from water by special iron water filters.



Ultra-filtration

Ultrafiltration systems remove a variety of contaminants from drinking water including sediments, particulates and cysts. It is also being used effectively as pretreatment to RO systems especially on surface water feed and sea water/brackish water systems.

Water Softening Plants

Calcium and magnesium are hard scale forming minerals that build up on piping, heat exchangers, water heaters, boilers, and steam equipment. This buildup results in costly repairs, increased energy consumption, plugged heat exchangers and boiler tubes. Also, hardness greatly reduces the service life of linens, clothing, appliances, and plumbing fixtures. Ion exchange softening is an old and proven process to tackle this issue on applications suited for this process.



Demineralization Plants

We design and assemble demineralization plants with high quality components to meet the high purity water standards of industrial, medical and commercial markets. Systems with various options including polishing provision are available. System without use of chemical and continuous production of high purity water can also be designed and supplied depending on clients specific requirements.

Degasification Plant

The basic principle of degasification is to force a column of air up-flow over a thin film or small drops of down-flow water. This procedure oxidizes iron and manganese; allow gases such as carbon dioxide, methane and hydrogen sulfide to escape and to let volatile substances such as phenol vaporize into the air.

We provide custom water degasification systems that integrate with current water treatment solutions or are a part of an entirely new water treatment system. Water degasifiers can be used in many applications such as pharmaceutical, boiler feed water treatment, steam generation, medical water, lab water, or any high purity water application.

Disinfection Units

Ozonator

Ozone destroys all the water borne pathogens and also helps reducing some of the organics present in the water. Another advantage of ozone is that it leaves no residual disinfectant so water is free from any form of toxicity.

Chlorination system

Drinking water treatment using continuous chlorination disinfects a water supply. It destroys bacteria, viruses and other microorganisms. It also oxidizes iron and manganese so they can be filtered out, and oxidizes hydrogen sulfide in order to reduce odors.

UV light system

Ultraviolet light water treatment systems are commonly used to further improve the quality of filtered drinking water. UV light treatment consists of passing water by an ultraviolet light source, which eliminates any biological contamination in the water.

Waste Water Treatment Plant

We provide complete solution of waste water treatment to remove contaminants from both domestic and industrial waste water in order to produce waste stream or solid waste suitable for safe discharge or reuse through physical, chemical and biological treatments.



Waste Water Recycling Plant

In today's global scenario when the world is facing a shortage of clean water, recycling is a need of time particularly in desert area and areas having scarcity of water. We offer a low-cost, environment friendly ways to create clean water for industries, agriculture and other uses.

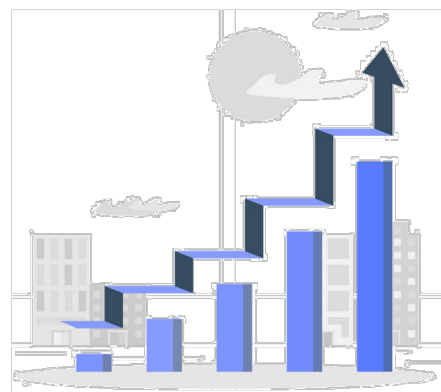
At Prime Chemicals Corporation, we utilize our extensive water management experience to design and deliver comprehensive water treatment programs to resolve all your water related challenges. Our quality range of Aquaprime chemicals supports you in successfully achieving optimal equipment life of your boilers, chillers, cooling towers, effluent treatment plants, and reverse osmosis membranes without compromising their performance and safety standards. Aquaprime has been a trusted brand of water treatment chemicals for demanding industrial and commercial applications all across Pakistan since 1983.



We understand an industrialist's primary concerns are keeping their workforce safe and maximizing factory productivity, making it essential that water employed at each stage of assembly conforms to the machine manufacturer's defined parameters. Safeguarding clients' concerns, we blend our Aquaprime formulations with premium grade raw materials procured from both international and local markets and process them to the highest quality control standards. This ensures consistent results in reliable machine operation, increased production and reduced safety risks while keeping overhead costs to a minimum throughout your equipment lifecycle.



Aquaprime products are complemented by our team of professional service executives who monitor and report water treatment program effectiveness and efficiency. Modifications are suggested and implemented as per the client's growth requirements, enabling you to seamlessly upscale production while complying with importer requirements, government regulations, and national environmental quality standards (NEQS). Additionally, periodic reports highlighting financial and technical milestones achieved by the water treatment program are presented to facilitate clients on request.



Products we formulate...

Chemicals For RO	Chemicals for Cooling Water
• Antiscalant	• Scale inhibitor
• Alkaline Cleaner	• Antiscalants/Dispersant
• Acidic Cleaner	• Corrosion inhibitors
• Biocides	• Antifoam
• Disinfectants	• Biocides- non-oxidizing
• pH adjuster	• Biocide – oxidizing
• De-Chlorinators	• Bio dispersants
Chemicals for Boilers	Chemicals for Waste Water
• Oxygen Scavenger	• Anionic polymer
• Scale Inhibitors	• Cationic polymer
• Corrosion Inhibitors	• Dechlorizer
• pH Adjusters	• Defoamer
• Anti-Foams	• Flocculants
• Sludge Conditioners	• Coagulant
Chemicals for Closed Circuits	Industrial Cleaning Chemicals
• Anticorrosion	• Inorganic descaler
• Biocide	• Organic descaler
• Multifunctional treatment	• Neutralizer
• Pre-commission Cleaners	• Iron-removal agents
• Multifunctional treatment	• Passivators



Some of our major clients:

1.	Philip Morris Pakistan Ltd.
2.	Pakistan Oil Fields Ltd.
3.	Liaquat National Hospital
4.	Mapak Edible Oils (Pvt) Ltd.
5.	Procter & Gamble Pakistan Pvt. Ltd.
6.	United Energy Pakistan UEP
7.	Pakistan Gum & Chemicals Ltd.
8.	United Industries (Kashmir Ghee)
9.	Sui Southern Gas Company SSGC
10.	Oil & Gas Development Company Ltd. OGDCL
11.	Akhtar Textile Industries (Pvt) Ltd.
12.	Military Dairy Farms Renala & Okara
13.	Balochistan Glass Limited Hub
14.	Novatex Limited
15.	OMI Hospital Pvt Ltd
16.	Diamond Textile, SITE Karachi
17.	Pakistan Petroleum Limited (PPL)
18.	Grace Knitware, Korangi, Karachi
19.	Pakistan Security printing Press
20.	Dollar Industries Pvt. Ltd.
21.	Toyo Packaging Pvt Ltd
22.	Chase Store
23.	Reckitt Benckiser Pakistan
24.	Lotte Kolson (Pvt) Ltd
25.	Plantinum Pharmaceutical Pvt. Ltd.
26.	Linz Pharmaceutical Pvt. Ltd.
27.	Artistic Denim Mills
28.	Seasons Canola Port Qasim
29.	Pakistan State Oil (PSO)
30.	Adnan Textile Mills Pvt. Ltd.
31.	Siddique Leather Works (Pvt) Ltd.
32.	Rajby Textiles Pvt Ltd
33.	MN Textile Pvt. Ltd.
34.	Opera Textile Mills Lahore
35.	ENAR Petroleum EPRFII
36.	Bonanza Garments Pvt Ltd
37.	Aisha Steel
38.	Colgate Palmolive

P&G

Bonanza
YKK

KOLSON
DOLLAR

P&L

CHASE

NOVATEX

PSO
rb

OIL & GAS DEVELOPMENT COMPANY LIMITED

RAJBY

ADM
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SSGC



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