WE CREATE VALUE BY SUCCESSFULLY PLANNING & EXECUTING THE PROJECTS...



UNITEDPURIO WATER

SOLUTIONS PRIVATE LIMITED





UNITEDPURIO WATER SOLUTIONS PVT LTD (UPWS) is a registered company focusing on universal solutions for local water problem by new technologies and product innovations for purification & conservation of water as well as for waste minimization. We undertake contracts for turnkey jobs in the field of water, sewage and industrial effluents. The company has the necessary expertise and professional skills to provide appropriate solutions to the very complex environmental problems at optimal cost.

Our strengths lies in the rich and varied experience of our engineer experienced in water and wastewater treatment and desalination over 30+ years in India with precise capability in quality control ,process design, in-depth engineering, Installation, commissioning.





Where the Water Supply Comes From?



Surface Water

which is susceptible to contamination directly entering the supply



Ground Water

which is susceptible to contaminants that are present in the soil and the rock as the water makes its way to the aquifer.

Contaminants might be present in Water?



Microbiological

Virus or bacteria from sewage, agriculture or wildlife



Inorganic

Rock or metal based, usually naturally occurring



Pesticides



Organic

Carbon based, usually industry by-product



Radioactive

Typically naturally occurring, but could be elevated by mining operations

So healthy living of your family counts on the availability of pure water. But pure water is scarcer with advancement of human race and it has become inevitable to assure the quality of ground water before having it for drinking or other purposes. Fresh water resources are fast depleting due to several factors like urbanization, industrial pollution, climate change, increase in population etc.

Being aware of the above fact, we offer complete solution for pure water availability for houses and industries with innovative products & new technologies.



SAND FILTER PRESSURE SAND FILTER



We are providing quality certified array of Pressure Sand Filter, which is especially demanded for removal of suspended solids & un-dissolved impurities. These impurities are generally heavy metals and dust particles. The pressure sand filter is highly suitable for the systems with high sediment, silt, sand, and turbidity. Our filter ensures the maximum utilization of the surface area, lesser pressure drop across the pressure bed and effective elimination of the impurities. Its application area includes swimming pool water, pre filtration for membrane system, production for drinking water and many more.

Features:

- Non corrosive and cost effective solution
- Suitable for residential, large commercial and industrial applications
- Consists of a multiple layer of sand with a variety in size and specific gravity
- Available in different sizes and materials both hand operated or fully automatically

Applications: Production of drinking water | Filtration in swimming pools | Filtration of gray or surface water | Preparation of cooling water Treatment of wastewater | Pre filtration for membrane systems

ACTIVATED CARBON FILTER



We are developing high grade Activated Carbon Filter that is built keeping in mind the domestic and global parameters. An activated carbon filter removes free chlorine, chloramide, chlorine dioxide, phenols, organic solvents, and pesticides. Recently, the application area of carbon filtration has widened in various industries, breweries, waterworks and wastewater treatment. It plays a crucial part in the process of removing pesticides in drinking water. The product range comprises filters of many different sizes and materials as per the requirement of our clients. We offer these in stainless steel with CIP (Cleaning in Place) for disinfection.

Features:

- Compact units with robust mild steel powder coated frames
- Range of models and capacities
- Economical & efficient way of removing dissolved solids
- Easy to start-up and use
- Can handle fluctuation of total dissolved solids removal
- Easy availability of spares and service
- Built in safety features for protecting high pressure pump membranes
- Fully assembled and tested before dispatch

Applications: Pharmaceutical industry | Power Plant | Textile industry | Oil & Gas sector Chemical industry



IRON REMOVAL SYSTEM



Iron is a objectionable constituent in drinking water. Coloration of water to yellowish brown or reddish brown indicates high content or iron. Concentration of Iron in excess of 0.2 to 0.3 mg I may cause nuisance in various application of water. Iron-bearing water can stain wash basins, toilets, urinals, bath tubs, showers, tiled floors and wails. Also presence of iron in water interfere in various industrial applications.

Applications: Hotels | Restaurants and Houses | Laundry | Textile and Dying Industry Dairy and Food Products | Package Drinking Water Industry

WATER SOFTENING SYSTEM



Pure water is tasteless, colourless, and odourless, which is a universal solvent. Calcium and magnesium dissolved in water make the water "HAND" which contributes to inefficient and costly operation of water-using appliances. Heated hard water forms a scale of calcium and magnesium minerals that can contribute to the inefficient operation or failure of water-using appliances and pipes.

Applications: Hotels | Restaurants and Houses | Boiler Feed water Dairy and Food Products | Laundry Applications

SEWAGE TREATMENT PLANT



offered is designed and developed using latest technology support and well researched bio-treatment process that makes them deliver efficient performance. Further, the plant also comes with support of conventional air exhaust, soil deodorization support, automatic electric control system and other working supports so as to provide for reliable performance. Some of its features include makes use of biological contact oxidation pond for better performance, supports treating domestic sewage and related organic sewage, features easy operations, automatic control, convenient maintenance, suitable for

use in areas like hotel, hospital, airport, factory, supports removing physical, chemical and biological contaminants.

Applications: Hotels | Airport | Factory



EFFLUENT TREATMENT PLANT



Offered features use of advanced bio-treatment technology and is backed by extensive research and engineering efforts so as to provide for optimum process support involving treatment of effluents. These plants are also well recognized for stable performance, effective treatment support as well as economical performance. Some of its features include provides for convenient operation and maintenance support, suitable for application in areas like hotel, brewery, hospital, school, station, factory and others, offers support as zero liquid discharge effluent treatment system.

The Main Advantages of Packaged ETP (MBBR/FAB based) are:

Compact and sturdy design | Odourless | Low power consumption | Easy maintenance | Rapid installation

Applications: Hotel | Brewery | Hospital | School | Station | Factory and Others

REVERSE OSMOSIS PLANT



offered comes with well integrated design support and is designed to provide for easy installation and maintenance. Making use of corrosion resistant components so as to enhance service life of RO plants, these provide optimum support in meeting the demands of improving water TDS under 2000ppm and making it fit for drinking. Further, these advanced technique based water purifying machines can be custom configured as per the specific water treatment needs of the customers. Some of its features include available in designs for both small and large scale operations, comes supported by variety of protective measures for safe operations, can be customized and configured to

suit individual requirements, suitable for use in areas like food processing, pharmaceuticals, boiler feeding requirement and others, ability to withstand variations in feed water quality.

Features:

- Consistent operation
- Increased solid removal
- Smoothness in operation
- Provides process stability
- Ruggedly constructed
- Energy efficient
- Enhanced performance

Applications: Offices | Hospitals | Residential complexes | Schools | Colleges



DEMINERALIZATION PLANT



For many laboratory and industrial applications, high-purity water which is essentially free form ionic contaminants is required. Water of this quality can be Produced by deionization.

The Two most common types of Deionization are:

Two-bed deionization | Mixed-bed deionization

Two-bed Deionization: Two Bed DM Plant comprise of two mild steel rubberlined /FRP pressure vessels filled with strong acidic cation exchange resin and strongly basic anion exchange resin. They are available in a range of diameters. The modular construction permits flexibility in the selection of cation and anion units to cater to different types of raw water. Degasser modules for the range Of CA units are

also available. These are useful for raw waters containing a significant amount of alkalinity. Treated water of conductivity less than 10 microsiemence/cm with ph of 7,5 to 8,5 is achieved at Two Bed DM Plant outlet.

Mixed-bed Deionization: Mix Bed DM Plant comprise of one Mild steel rubber-lined/FRP pressure vessels filled with strong acidic captions exchange resin and strongly basic anion exchange resin in mixed form. They are available in a range of diameters. Mix Bed DM Plant is usually used as polishing unit at outlet of Two Bed DM Plant/RO Plant. The modular construction permits flexibility in the selection of cation and anion units to cater to different types of raw water. Treated water of conductivity less than 1 microsiemence/cm with ph of 6.5 to 7.5 is achieved at Mix Bed DM Plant outlet.

Applications: Foundries | Food & Beverages | Pharmaceuticals | Electroplating & Semiconductors | Cosmetics Industries | Paper & Pulp Industry

Range: We can supply these plants in specifications as per the requirements. Flow range of 1.0-10.0 m3 / hr and even more.

WATER FILTER PLANT- SWIMMING POOL



We are engaged in catering to the variegated requirements of the customers by bringing Swimming Pool Filtration System. Optimum-grade basic material coupled with latest technology is employed in manufacturing of these systems to satisfy the divergent demands of the clients. Further, these systems are offered in different specifications to suit the divergent demands of the clients.

Features:

- Compact unit with robust mild steel powder coated frame
- Built in safety features to protect high pressure pump membranes
- Fully assembled and tested before dispatch

Advantages: The most economical &efficient method of dissolved solids removal | Easy to start up and uses very little space on solids in feed water | Can handle fluctuations of total dissolved solids removal | Easy availability of spares and service Short delivery periods



- INDUSTRIAL MEMBRANES
- MULTI PORT VALVES
- FRP VESSELS
- DOSING PUMP
- HIGH PRESSURE PUMP
- FRP HOUSING
- FLOW METERS
- GAUGES
- CHEMICALS
- FILTER MEDIA
- ACTIVATED CARBON
- RESINS etc.,

All Components available for Industrial & Domestic Purposes



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