



(ISO 9001:2008 Company)



Company Profile – [Water & Waste Water Treatment Solution Company]

Welcome to Unistar Aquatech (P) Limited is a part of the corporate group – Universal Technology, Registered as since 1997. Experience in the Water & Waste Treatment Field. Company has its Corporate Head Office at New Delhi & Factory at Ghaziabad UP India. As an ISO 9001:2008 certified Company. We are pleased to introduce ourselves as a company, focusing in the field of Water & Waste Water Treatment Solution, Industrial Waste Water. Sewage Treatment Plant, Effluent Treatment Plant, Softener Plant, Industrial RO Plant, Filtration, Operation & Maintenance, Water Pollution. We are Manufacturing, and Supplying, Import & Export a wide range of Speciality along with various grade of Water Treatment Plants, Machine, & components. We nurture a team of highly qualified engineers and other professionals who have developed their expertise in designing, installation, commissioning, and after sales services of our high end technological water treatment systems. We have site experts who can handle the water and waste water treatment problems. We provide Technical Support and Services to our valued Customers. Our systems are eco-friendly and are designed to remove unwanted, unpleasant and unhealthy solid or unseen impurities that may be present in industrial liquids or even in potable water supplies.

Our Certification



Some Our Clients



Associate With



UNISTAR AQUATECH (P) LIMITED

Phone :- 011-22464644, 22022794, 22522594, **Mobile.** 9811701883, 8588881234

Email: Delhi@unistaraquatech.com India@unistaraquatech.com Web. www.unistaraquatech.com

Corporate Office: Jaina Complex, 1st Floor, 3-A Veer Saverkar Block Shakarpur Vikas Marg, Delhi-92. India
Factory : Plot 196 Rajender Nagar Industrial Area Mohan Nagar Ghaziabad

|| Mfr. Sewage Treatment Plant || Effluent Treatment Plant || Softener Plant || RO Plant ||



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Quality

Quality is paramount for us and we rigorously check the products at each and every stage of manufacturing. We have set our focus on future requirements of the industry, while successfully meeting the present unistar aquatech demands. Today, our products are known for durability, quality and dependability. At Unistar, research and development is a continuous ongoing process, so that we can offer our clients the best value for their money.

Team

We nurture a team of highly qualified engineers and other professionals who have developed their expertise in designing, installation, commissioning, and after sales services of our high end technological water treatment systems. We have site experts who can handle the water and wastewater treatment problems. A separate project team is formed who are responsible for the project right from the planning till the commissioning of the project. They also ensure in time execution of the project with the following role on hand. We ensure to offer our team various career development and training opportunities yielding better results.

Manufacturer & Supplier Waste Water Treatment plant

Waste Water Treatment Plant

- Waste Water Treatment Plants.
- Sewage Treatment Plant.
- Effluent Treatment Plant.
- UF Plant
- Screens of All Types(Manual & Automatic) Diffused Aeration Systems.
- Mobile/Containerized Waste Water Treatment Plants.
- Sludge Thickening Systems.
- Filter Press, Air Blower
- Clarifier Scraper Mechanisms.
- Zero Liquid Discharge (ZLD)
- Oil & Grease Removal System (Skimmers, Trap, Separators)



Water Treatment Plant

- RO Plant
- Softener Plant
- DM Plant
- Iron Removal Plant
- Filtration Plant
- Activated Carbon Filtration
- Water Treatment Equipments

Products / Services Offered

- Turnkey Projects
- Equipment Manufacturing
- Consultancy
- Design/Engineering
- Erection/Commissioning
- Operation & Maintenance
- Upgrading of clients existing Water/Waste Water Treatment

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Training and after sale service

UNISTAR has well-Trained, experienced and competent service engineers, who constantly visit customers to ensure proper operation and maintenance of their systems and offer their services and guidance in any difficulty experienced by customers. UNISTAR organizes training programs at regular intervals to train clients personnel for theoretical and for on the job training.



Turnkey Projects

UNISTAR offers consultancy services to its valued clients in waste water Treatment. The scope includes: carrying out preliminary studies and surveys, understanding client requirements, problems, constraints and objectives and basing conclusions on the data provided; are important aspects of this activity. UNISTAR has a full fledged design and development which user most advanced software to design processes, systems and equipment. The software possess capability to design structures and calculate complex engineering formulae to enable UNISTAR's competent design and engineering teams to execute different types of projects



Quality management at UNISTAR

At UNISTAR there is continuous emphasis to achieve the highest level of customer satisfaction through providing products and services of high quality standards. All the products manufactured at Akar and its and its associate's plants go through stringent quality check at every stage from purchase of raw materials till the finished goods, before handing over to customers. There is consistency in quality of products and services and its continuous up-gradation through following ISO9001:2008 regularly and in true spirit. The company has been certified to ISO9001:2008

Sewage Waste Water Recycling

One of the most important aspects of UNISTAR technology is its specialization in the field of recycling of waste water. In the existing context of global shortage of good quality water, recycling becomes very important. In Indian context also, particularly in desert area and are a having carcity of water, water recycling assumes more importance than even treatment part. UNISTAR has gained expertise in recycling of waste water. The experience has proved to be a boon for its clients. Shown in this picture is a Sewage Water Recycling Plant set up for an educational institution in a desert area. Greenery from recycled water irrigation can be seen in the picture.

Complete Waste Water Treatment Plant

UNISTAR has successfully executed a turnkey project from design to commissioning for a hospital and Research centre in Ghaziabad, India. The job involved pre-treatment, filtration, chemical dosing, R.O. Membrane treatment and polishing treatment, Water quality for this hospital in a laboratory was required to be below 2 Micro Siemens/Cm, which Unistar was able to provide to the complete satisfaction of the client.

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Effluent Treatment Plant

Unistar manufacturer waste water treatment Plant from Textile Industries, Chemical Industries, Hospital, Automobile Industries, Dairy etc. A large quantity of industrial and commercial effluents cause pollution in our environment. Our plants handle these effluents in most to make our environment safe and healthy. To keep our environment safe, we offer innovative Effluent Treatment Plants to remove the pollution effluents with economical operation and quality discharge to Meet the stringent pollution control norms. It mainly depends upon the type of effluent when various processes are developed for the cost effective treatment. The technological solutions are available after complete research and trial run at our pilot plants. Our Effluent Treatment Plants cater in diversified areas such as Textile Industry, Electroplating and Picking Industries, Hospitals, Automobile Industries, Export Houses etc to name a few.



Sewage Water Treatment Plant

Unistar manufacturer waste water treatment plants for Hotel Industries, Hospitals, Residential Apartment or Building, Resort. Unistar fully pre-assembled and factory tested Bio-Accelerator 3600 modular Sewage Treatment plant is supplied in an ISO shipping container format for ease of transportation. Bioreactor, settling tanks & chlorine contact tanks are open topped with safety railings around access points. RAS Pump, aeration blower, dosing systems, Tertiary system, monitoring and control systems are skid mounted and with effective weather protection. The factory fitted and tested system along with semi / Automatic control panel includes full process Monitoring and data logging functions. Full telemetry including remote control is available as an option. The Bio-Accelerator is designed to require minimal operator supervision making it ideal for installation in remote locations.



TREATMENT PROCESS

Bio-Accelerator 3600™ Modular sewage treatment plant is a fully/Semi Automated waste water treatment system incorporating the

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following process stages:

1. Inlet screening 2. Primary Treatment 3. Aeration Tank with UV resistance bio media. 4. Secondary Settling Tank with PP tube media. 5. Chlorine Contact tank 6. RAS and sludge removal 7. Tertiary Treatment for polishing

WORKING PRINCIPAL

The heart of the Bio-Accelerator is design of aeration tank and bio-media as it removes organic impurities through a biological process. The biological process involves growing millions of bacteria that eat up organic impurities. Thousands of Virgin PP media pieces provide larger surface area for quick bacterial growth. Bacteria get attached to the surface of media-piece and gets detached after attaining mass and age, giving room to other bacteria to grow at the surface of the media.

Continuous and right supply of air through Diffusers provides mobility to the media and the sewage, for accelerated biological growth of bacteria... and provides vital oxygen for bacterial growth. The Accelerator 360o™ technology ensures that Food and Mass Ratio is continuously maintained uninterruptedly throughout the process for desired level of Mixed Liquor Suspended Solids (MLSS) which is critical for subsequent processes.

The mixed-liquor largely free of organic impurities, with controlled levels of BOD and COD, overflows to the next Chamber for settling and filtration process.

Benefits

- ❖ Small footprints reduce land use.
- ❖ Expandable and flexible designs
- ❖ Completely above ground installation.
- ❖ Easy to Transport, relocate, install & Expand.
- ❖ High removal efficiency for nitrogen, BOD & COD,
- ❖ Treated Water reuse in irrigation and grey water applications.
- ❖ Minimum maintenance requirements.
- ❖ Full technical, installation and operation support from trained and experienced Team.
- ❖ Proven Technology with reliable performance.
- ❖ Reuse of Wastewater in gardening application.



Typical Applications:

Packaged Sewage Treatment Plants are ideal for the following applications:

Housing Project. Schools & hostels. Industrial Office & Parks. Recreational camps & travels trailer parks. Shopping Centres. Restaurants. Resorts, Golf Courses and country clubs, Hospitals.

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Reverse Osmosis Plant Capacity 20,000 Ltr/hr



Model : Unipure-20000
Capacity : 2,0,000 Ltr./hour
Production : 2,00,000 to 2,50,000 Ltr./day
Working Hour : 10-12 Hour Per Days
Uses : Industries, Boiler, Chemical, Institute, Hospital Packaging Water, etc.
Material : SS-304/uPVC/FRP/MS
Electrical : 440 V, Three Phase, 50 hz
Price : Depend on water/material

Reverse Osmosis Plant Capacity 10,000 Ltr/hr.

Model : Unipure-10000
Capacity : 10000 Ltr./hour
Production : 100,000 to 150000 Ltr./day
Working Hour : 10-12 Hour Per Days
Uses : Industries, Boiler, Chemical, Institute, Hospital Packaging Water, etc.
Material : SS-304/uPVC/FRP/MS
Electrical : 440 V, Three Phase, 50 hz
Price : Depend on water/material



Reverse Osmosis Plant Capacity 1000 Ltr/hr.



Model : Unipure-1000
Capacity : 1000 Ltr./hour
Production : 8,000 to 12,000 Ltr./day
Working Hour: 8-12 Hour Per Days
Uses : Industries, Boiler, Chemical, Institute, Hospital Packaging Water, etc.
Material : SS-/uPVC/FRP/MS
Electrical : 220 V, 1 phase Phase,

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Reverse Osmosis Plant Capacity 250 Ltr/hr.



Model	: Unipure-250
Capacity	: 250 Ltr./hour
Production	: 1500 to 2200 Ltr./day
Working Hour	: 8-12 Hour Per Days
Uses	: Industries, Boiler, Chemical, Institute, Hospital Packaging Water, etc.
Material	: SS-/uPVC/FRP/MS
Electrical	: 220 V, 1 phase Phase,

Water Treatment Softener Plant

Hardness is a chemical parameter of water that represents the total concentration of calcium and magnesium ions. It is called hardness because if calcium and magnesium are present in your water, making a lather or suds for washing is "hard" to do. Another negative aspect of hard water is the capacity to produce scale, primarily caused by calcium and magnesium salts. Hardness is usually expressed in grains per gallon or parts per million (ppm) as calcium carbonate equivalent. The degree of hardness standard as developed. The softener plant deigning capacity 100 to 10,00,000 Ltr. Per Day depend on water property with water your requirement. Water Hardness exist in significant areas of the country that result in disappointing white scales on fixtures, appliances and piping. Softening of water produces immediate benefits such as reduced usage of soap and detergent, cleaner clothes and better taste of food and beverages

Term	Grains/gallon	mg/L or ppm
Soft	Less than 1.0	less than 17.1
Slightly Hard	1.0 to 3.5	17.1 to 60
Moderately Hard	3.5 to 7.0	60 to 120
Hard	7.0 to 10.5	120 to 180
Very Hard	10.5 and above	180 and above



- Prevent Scaling in boilers, geysers, heat exchangers, press, etc.
- Prevent Scaling & corrosion in pipelines and bathroom fittings.
- Save up to 70% of detergent & soap in washing process.
- Prevent scaling on human skin & stop hair loss.
- Reduces cooking time and consumption of gas.
- Reduces electricity bill.
- Low maintenance cost

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