



K&C ENVIROTECH SERVICES

Water & Wastewater Treatment Solutions

ETP | STP | DM | TTP | Softener | Screw Press | Sludge Dryer | OWC

ABOUT US

K&C Envirotech Services, established in 2021, is a leading water and wastewater treatment plant design and manufacturing company with operations across PAN India. Our head office is located in Mumbai.

We specialize in delivering innovative, efficient, and sustainable solutions for water and wastewater treatment systems, primarily focusing on:

- Industrial Sector
- Commercial Sector
- Building Sector
- Hotels & Hospitality Sector

Our experienced team of sales, mechanical, and electrical engineers ensures technically sound design, seamless execution, and reliable performance of every project.

WHY CHOOSE US?

✓ Integrated Environmental Solutions

We provide complete design consultancy and equipment solutions for ETP, STP, DM, TTP, and Water Softening Systems—ensuring seamless execution from concept to commissioning.

✓ Technical Expertise & Process-Driven Design

Our engineering approach focuses on performance optimization, regulatory compliance, and long-term operational efficiency. Every system is customized to meet specific industry requirements.

✓ Compliance & Sustainability Focus

We design systems aligned with environmental standards and pollution control norms, ensuring clients meet regulatory requirements while promoting water reuse and waste reduction.

✓ Cost-Effective & Energy-Efficient Solutions

Our solutions are engineered to reduce operational costs, power consumption, and downtime—maximizing ROI for our clients.

✓ Client-Centric Approach

We believe in long-term partnerships. Our team ensures transparent communication, timely project delivery, and dedicated after-sales support.



Our Vision

To become a trusted and leading environmental engineering company in India, delivering innovative, sustainable, and cost-effective water and wastewater treatment solutions that contribute to a cleaner and greener future.

Our Mission

To ensure customer satisfaction through timely project execution and strong after-sales support & promote environmental sustainability by reducing water pollution and encouraging water reuse and resource recovery.

Core Values

- Integrity
- Innovation
- Sustainability
- Quality Excellence
- Customer Commitment

Our Service

Water & Wastewater Treatment

We specialize in customized system design for:

- ✓ Effluent Treatment Plants (ETP)
- ✓ Sewage Treatment Plants (STP)
- ✓ DM Plants (Demineralization)
- ✓ Tertiary Treatment Plant (TTP)
- ✓ Water Softener Plant
- ✓ Ultra-Filtration & Reverse Osmosis Treatment (UF – RO) Plant

Equipment Supply

We supply high-quality and durable machinery including:

- ✓ Screw Press
- ✓ Sludge Dryer
- ✓ Organic Waste Converter (OWC)
- ✓ Fine & Coarse bubble diffuser – Disc & Tube
- ✓ Retrievable type diffuser arrangement in civil tank.

Operation Man-Power Services

- ✓ ETP, STP, UF-RO
- ✓ MEE / MVRE

Authorized Distributor for – Hindustan Blower & Vacuum Technology

- ✓ Air Blowers
- ✓ MVRE Booster
- ✓ Vacuum Pump



★ How We Work

- Requirement Analysis
- Site Evaluation
- Process Design & Engineering
- Equipment Selection
- Installation Support
- Testing & Commissioning
- After-Sales Technical Support

★ Industries We Serve

- Pharmaceutical & Bulk Drug Manufacturing
- Chemicals
- Petrochemical Industries
- Paint & coatings
- Dairy plants
- Breweries & distilleries
- Soft drink bottling plants
- Edible oil refineries
- Sugar mills
- Paper manufacturing
- Packaging board plants
- Leather & Tannery Units
- Galvanizing plants
- Surface coating industries
- Automotive component plating
- Petroleum refining
- Lubricant blending plants
- Fertilizer & Pesticide Industries
- Power Plants
- Industrial Parks

We manage your Waste; you manage the Rest...!

Water & Wastewater Treatment

♣ EFFLUENT TREATMENT PLANT (ETP)

The Effluent Treatment Plant (ETP) is designed to treat industrial wastewater generated from manufacturing and process industries. The system effectively removes suspended solids, oil & grease, organic and inorganic pollutants, heavy metals, and dissolved contaminants to ensure compliance with Pollution Control Board discharge norms.

The ETP incorporates physical, chemical, and biological treatment processes such as equalization, neutralization, coagulation–flocculation, primary clarification, aeration (**ASP / MBR / MBBR / TFM**) secondary clarification, filtration, and sludge dewatering for efficient and reliable performance.

Engineered for continuous operation, the plant is customized based on wastewater characteristics and flow capacity.

♣ Key Features:

- Effective removal of BOD, COD, TSS, oil & grease
- Customized design as per effluent characteristics
- Compact and modular options available
- Energy-efficient and low maintenance
- Compliance with environmental regulations
- Suitable for Zero Liquid Discharge (ZLD) integration

♣ Applications:

- Textile Industry
- Pharmaceutical Industry
- Chemical Industry
- Food & Beverage Industry
- Engineering & Manufacturing Units
- Automobile industry
- Sugar & Distillery Industry



We manage your Waste; you manage the Rest...!

Advanced Membrane Technology

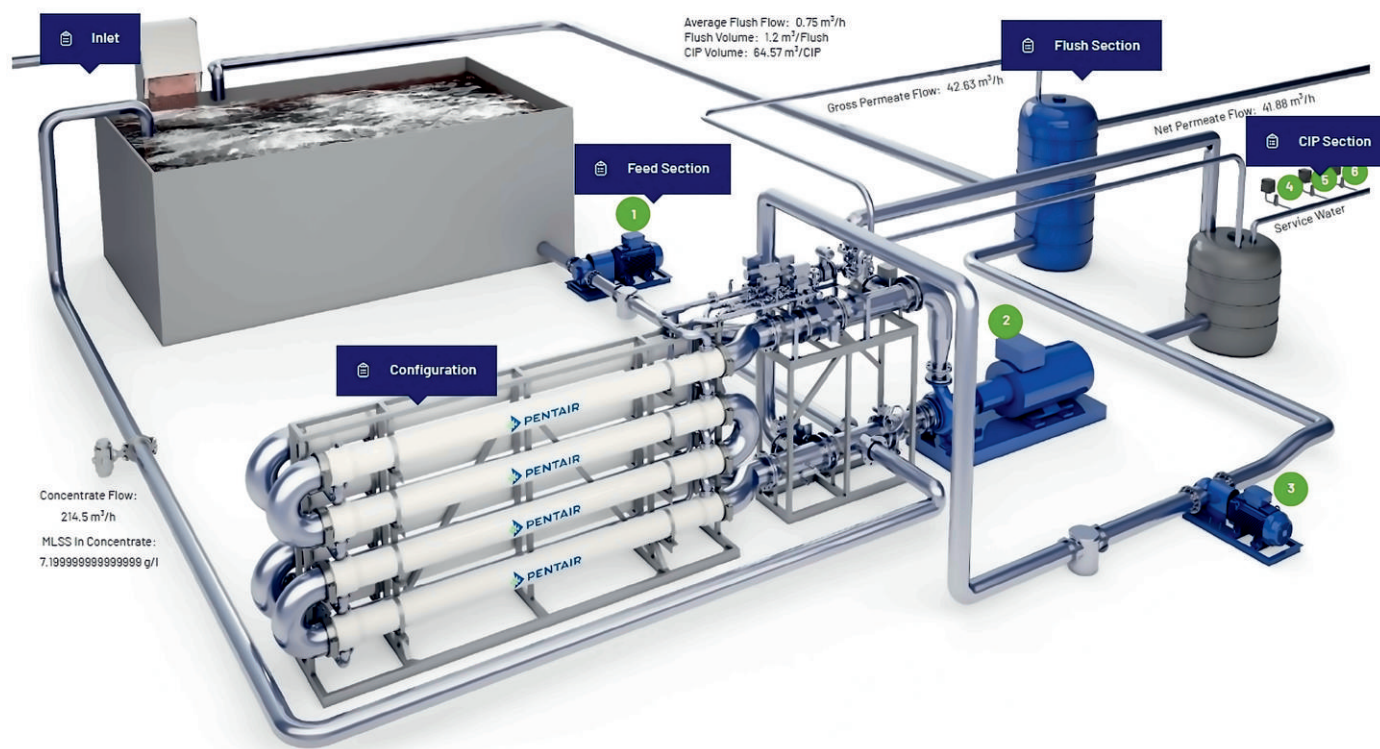
Hollow Fiber Membrane



Flat Sheet Membrane



Tubular Filter Membrane



▲ SEWAGE TREATMENT PLANT (STP)

The Sewage Treatment Plant (STP) is designed to treat domestic wastewater generated from residential, commercial, and industrial facilities. The system effectively removes suspended solids, organic matter, nutrients, and harmful contaminants to produce treated water that meets pollution control discharge or reuse standards.

▲ PACKAGED & MODULAR K&C SEWAGE TREATMENT SYSTEMS

The K&C Packaged Modular Sewage Treatment Plant (STP) is a compact, factory-fabricated system designed for efficient treatment of domestic wastewater. The plant is engineered as a ready-to-install unit, ensuring quick installation, minimal civil work, and easy scalability.

The system incorporates advanced biological treatment technologies such as **MBBR / MBR / ASP / SBR** to achieve treated water quality as per pollution control norms. Its modular design allows flexibility in capacity expansion and relocation if required.

▲ Key Features:

- Compact and space-saving design
- Factory-assembled and skid-mounted
- Quick installation and commissioning
- Energy-efficient operation
- Reuse-ready treated water
- Modular and scalable design
- Easy operation and Low maintenance
- Treated water suitable for reuse



DM PLANT (DEMINERALIZATION PLANT)

The DM Plant is designed to remove dissolved mineral salts, hardness, and ionic impurities from water to produce high-purity demineralized water. The system operates on the ion-exchange principle, where cation and anion resins effectively remove positively and negatively charged ions from the feed water.

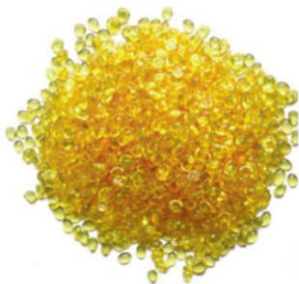
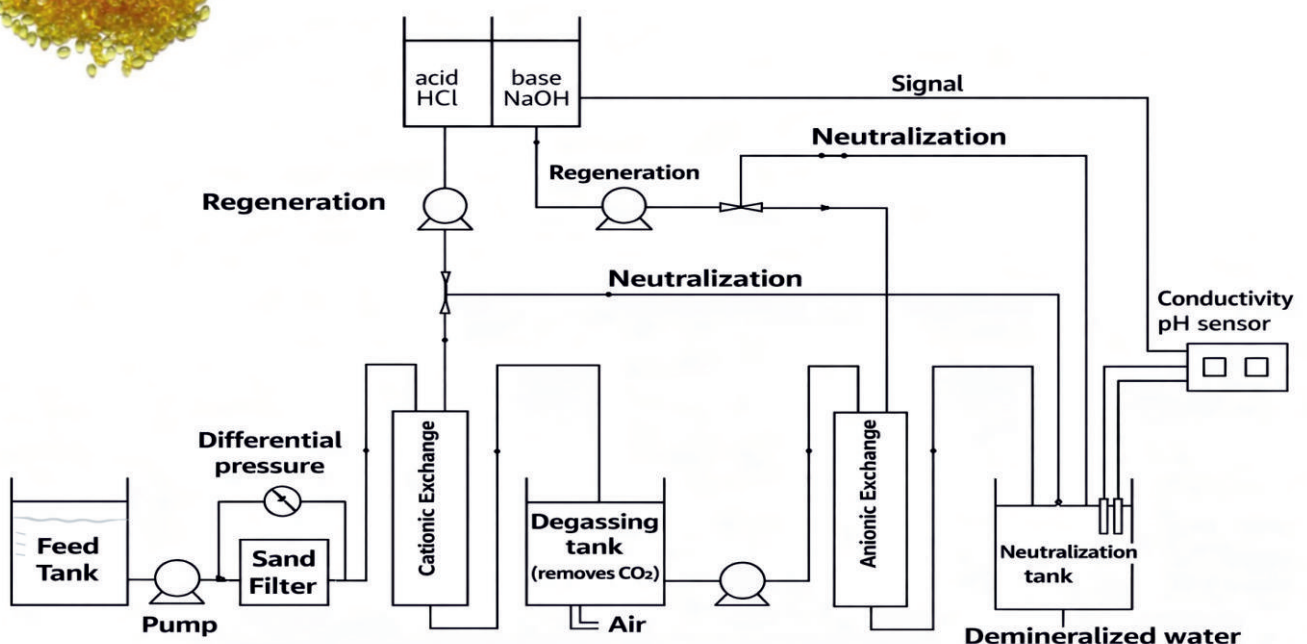
Typically consisting of Cation, Anion, and Mixed Bed units, the DM Plant ensures very low conductivity water suitable for critical industrial applications. The system is available in manual, semi-automatic, and fully automatic configurations.

Key Features:

- High-quality low-conductivity output water
- Efficient ion-exchange resin technology
- Skid-mounted and compact design
- Easy regeneration process
- Low operating and maintenance cost

Applications:

- Boiler feed water
- Power plants
- Pharmaceutical industry
- Chemical & process industries
- Laboratories and industrial utilities



✦ TERTIARY TREATMENT PLANT (TTP)

The Tertiary Treatment Plant (TTP) is designed to provide advanced polishing treatment to secondary treated wastewater for achieving higher quality standards suitable for reuse or safe discharge. The system effectively removes residual suspended solids, turbidity, dissolved impurities, nutrients, color, and pathogens.

The TTP typically incorporates processes such as pressure sand filtration, activated carbon filtration, ultrafiltration (UF), reverse osmosis (RO), and disinfection systems (UV / chlorination), depending on the required output water quality.

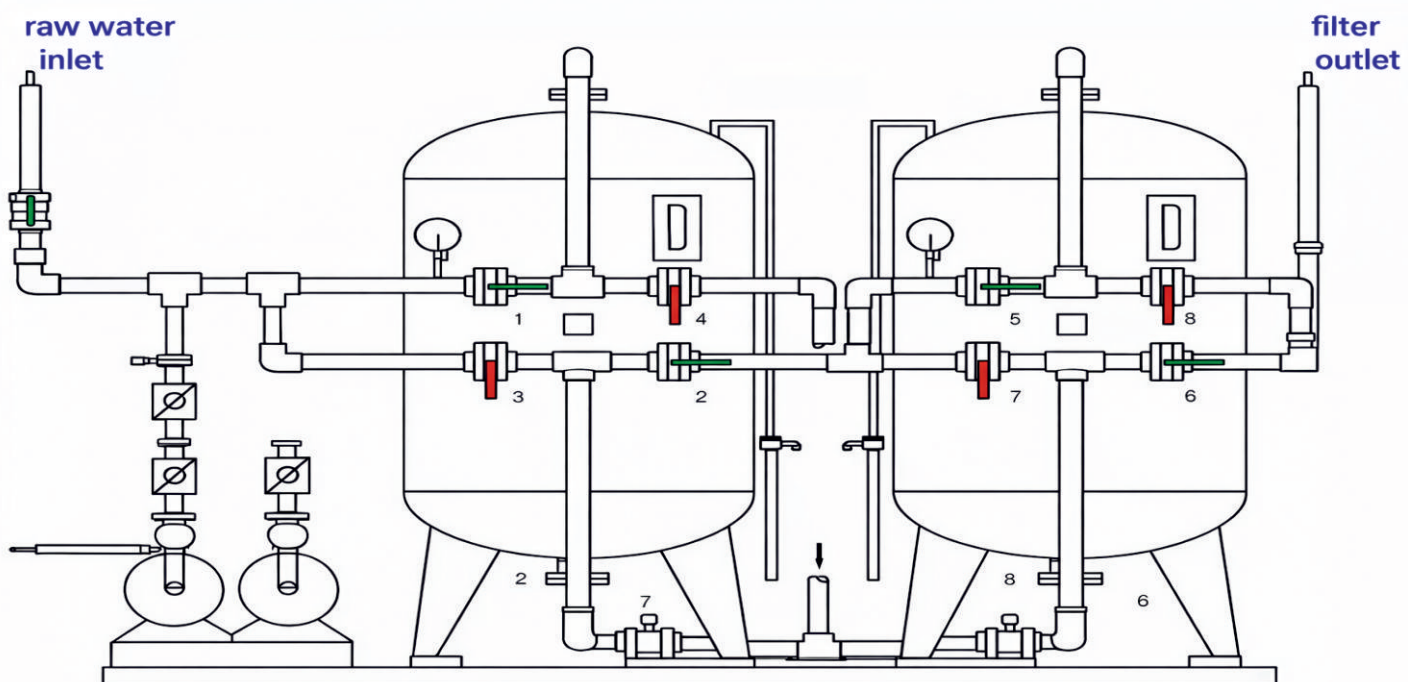
Engineered for reliable and energy-efficient performance, the Tertiary Treatment Plant ensures compliance with stringent environmental norms and supports water recycling and reuse applications.

✦ Key Features:

- Advanced polishing of treated wastewater
- Improved turbidity, TSS, and pathogen removal
- Suitable for water reuse applications
- Modular and skid-mounted design options
- Low maintenance and automated operation

✦ Applications:

- Treated water reuse for flushing & gardening
- Cooling tower makeup water
- Industrial process reuse
- Zero Liquid Discharge (ZLD) systems
- Municipal & industrial wastewater treatment plants



▲ WATER SOFTENER PLANT

The Water Softener Plant is designed to remove hardness-causing minerals such as calcium and magnesium from water through the ion-exchange process. The system prevents scale formation in pipelines, boilers, cooling towers, and industrial equipment, thereby improving operational efficiency and extending equipment life.

The plant consists of a pressure vessel filled with high-quality cation exchange resin, along with a brine tank for regeneration. The system operates in service and regeneration cycles, ensuring continuous supply of softened water.

Available in manual, semi-automatic, and fully automatic configurations, the softener plant is suitable for domestic, commercial, and industrial applications.

▲ Key Features:

- Effective hardness removal
- Prevents scale formation
- Automatic regeneration system
- Compact and skid-mounted design
- Low operating and maintenance cost

▲ Applications:

- Boiler feed water
- Cooling tower makeup water
- Hotels & hospitals
- Residential complexes
- Industrial process water

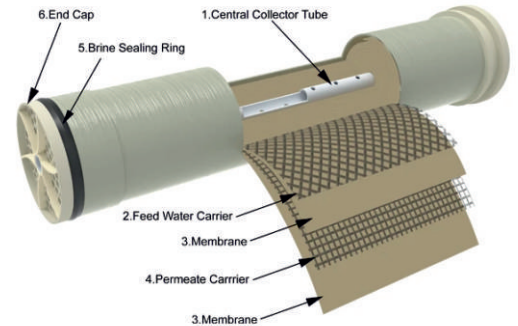


▲ ULTRA - FILTRATION & REVERSE OSMOSIS TREATMENT (UF – RO) PLANT

K&C UF with RO Plant is an advanced water treatment system designed to produce high-quality purified water by combining Ultrafiltration (UF) and Reverse Osmosis (RO) technologies. The UF system acts as an effective pre-treatment stage, removing suspended solids, colloids, bacteria, and turbidity, thereby protecting the RO membranes and enhancing system performance.

K&C RO system further removes dissolved salts, TDS, heavy metals, and dissolved impurities to deliver high-purity treated water suitable for industrial and commercial applications.

This integrated system ensures improved membrane life, consistent output quality, and reduced operating cost.

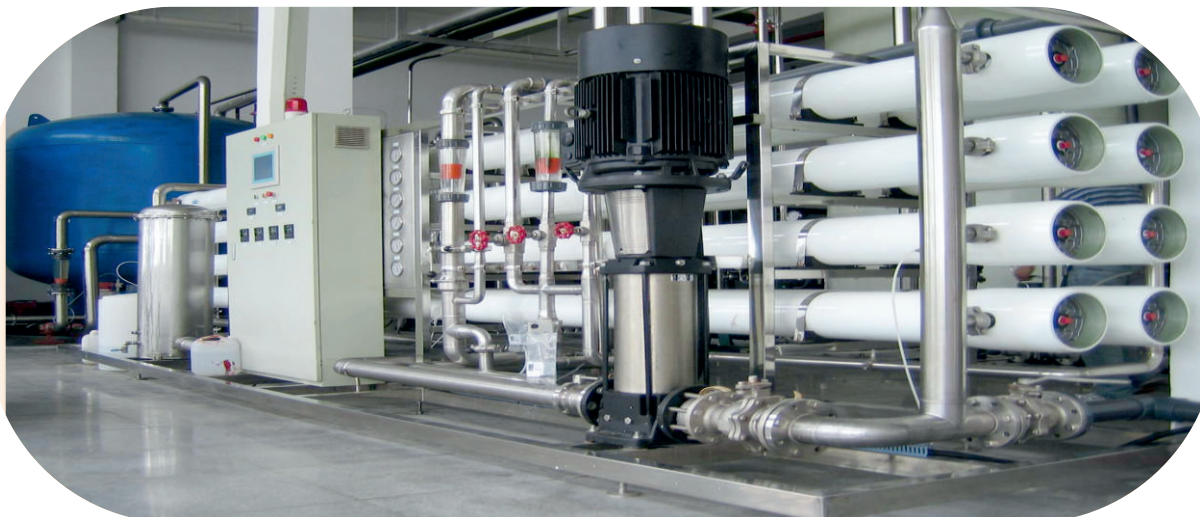


▲ Key Features:

- Dual-stage filtration (UF + RO)
- Enhanced RO membrane protection
- High TDS and contaminant removal efficiency
- Skid-mounted and modular design
- Automated operation with monitoring system
- Suitable for reuse and process applications

▲ Applications:

- Industrial process water
- Boiler & cooling tower feed
- Pharmaceutical & food industries
- Commercial complexes
- Water recycling and reuse system



Equipment Supply

▲ K&C SCREW PRESS

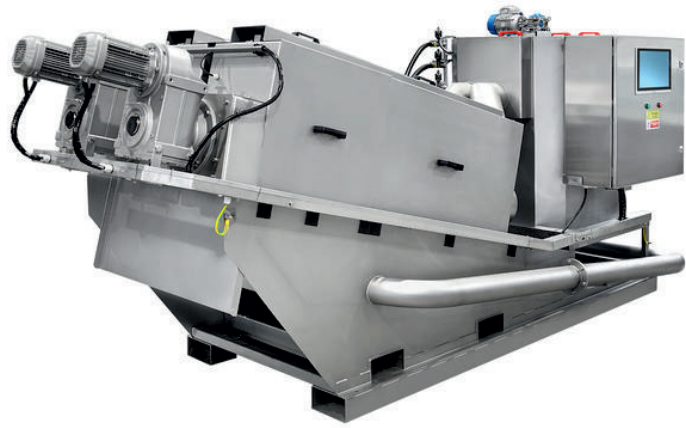
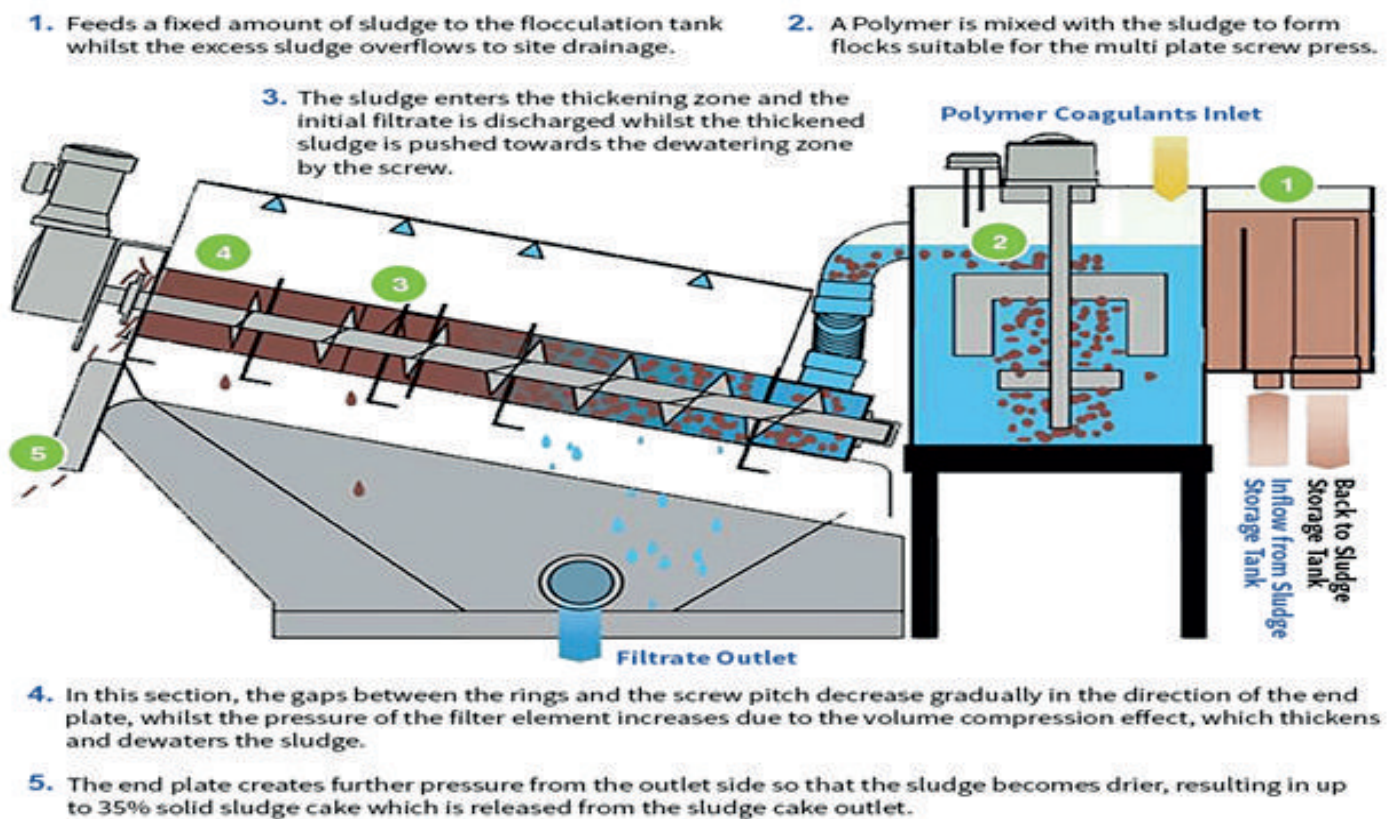
The K&C Screw Press is a compact and efficient sludge dewatering system designed for solid-liquid separation in wastewater treatment plants. It is widely used in ETP, STP, and industrial applications for reducing sludge volume and improving handling efficiency.

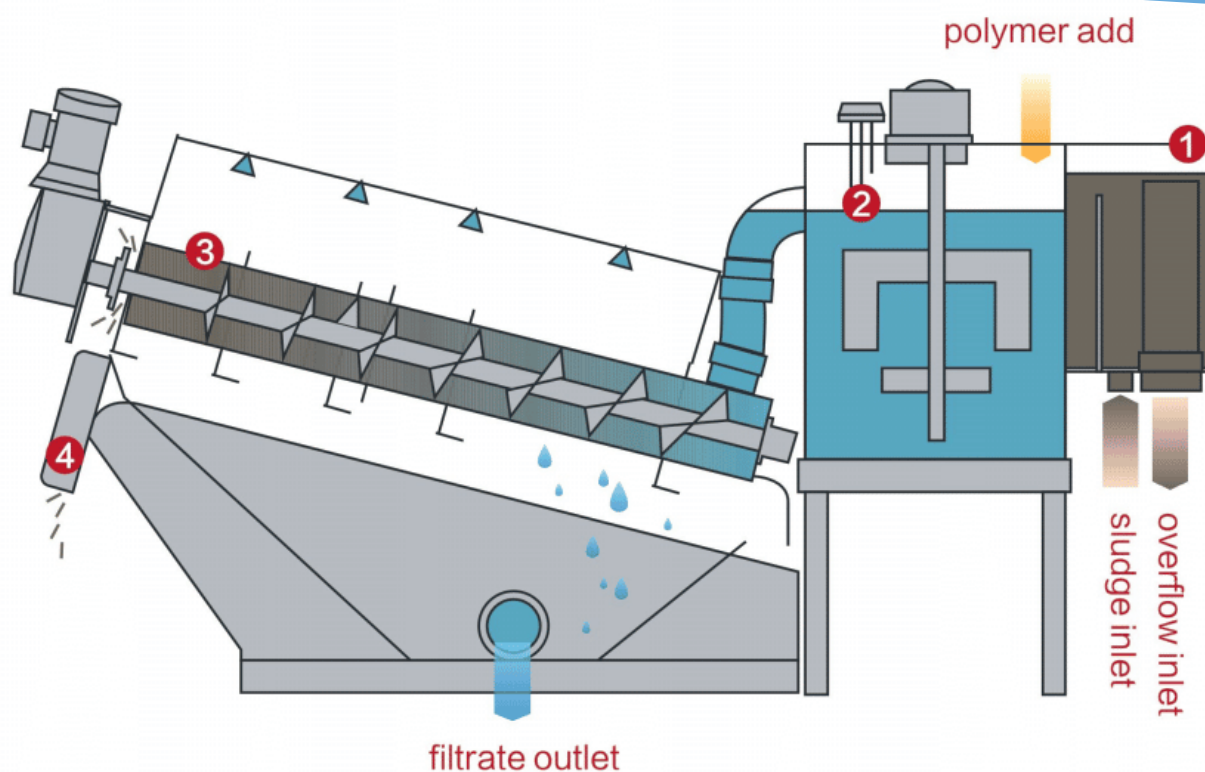
The system operates on a slow-speed screw mechanism housed within a cylindrical screen. As sludge enters the unit, it is conveyed, compressed, and dewatered through progressive pressure. The filtrate passes through the screen while the dewatered sludge is discharged at the outlet.

The Screw Press ensures continuous operation with low power consumption, minimal noise, and reduced maintenance requirements.

▲ Key Features:

- Continuous and automatic operation
- Low power consumption
- Compact and space-saving design
- Low noise and vibration
- Minimal maintenance
- High solid capture efficiency





PERFORMANCE DATA – K&C SCREW PRESS MACHINE

MODEL	Feed Flow (m ³ /hr)	Dry Sludge load (Kg/hr)	Electrical Load (kw)	Dimension in (m) (L x W x H)	Rinsing water (Lph)
KCSP 0.5	0.5	2.0 – 5.0	0.36	1.5 x 0.71 x 0.95	30
KCSP 1.0	1.0	5.0 – 10	0.36	1.9 x 0.7 x 1.0	40
KCSP 1.5	1.5	10 – 15	0.36	2.1 x 0.8 x 1.0	50
KCSP 2.0	2.0	15 -20	0.54	2.3 x 0.9 x 1.25	60
KCSP 3.0	3.0	20 – 30	0.55	3.0 x 0.9 x 1.2	80
KCSP 4.0	4.0	30 – 40	0.55	3.05 x 0.9 x 1.3	100
KCSP 6.0	6.0	40 – 60	0.92	3.1 x 0.95 x 1.6	150
KCSP 10	10	70 – 100	1.25	3.2 x 1.0 x 1.65	200
KCSP 15	15	120 – 150	1.3	3.4 x 1.1 x 1.65	250
KCSP 20	20	160 – 200	1.47	4.1 x 1.1 x 2.2	300
KCSP 25	25	200 – 250	1.87	4.1 x 1.1 x 2.2	350
KCSP 30	30	250 – 300	2.75	4.1 x 1.5 x 2.13	450
KCSP 40	40	310 – 400	2.95	4.3 x 1.5 x 2.2	600
KCSP 50	50	410 – 500	3.75	4.4 x 1.5 x 2.2	700

Note: * Due to continuous development, specification may change without notice.

▲ K&C SLUDGE DRYER

The K&C Paddle Type Sludge Dryer is an efficient, indirect heating system designed for the drying of dewatered sludge generated from ETP, STP, and industrial wastewater treatment plants. The system operates on a low-temperature drying principle, ensuring uniform heat transfer and effective moisture reduction while minimizing energy consumption.

The dryer consists of a horizontal cylindrical shell fitted with specially designed hollow paddles mounted on a rotating shaft. Hot media such as steam or thermic fluid passes through the paddles and jacket, providing indirect heat to the sludge. Continuous mixing ensures uniform drying and prevents material sticking.

The system reduces sludge moisture content significantly, resulting in volume reduction, lower disposal costs, and easier handling.

▲ Key Features:

- Indirect heating through hollow paddles
- Uniform heat distribution and efficient mixing
- Low energy consumption
- Compact and robust design
- Reduced sludge volume and disposal cost
- Suitable for continuous operation



PERFORMANCE DATA – K&C SLUDGE DRYER – PADDLE TYPE

MODEL	Feed Flow (Kg/Hr)	Dimension in mm (L x W x H)	Electrical Load (kw)	Scrubber Dimension (L x W x H)	IF Fan (CFM)
KCSD 100	80 – 100	3000 X 600 X 1200	3.7	300 X 300 X 800	200
KCSD 200	180 – 200	4000 X 780 X 1200	5.5	300 X 300 X 1000	350
KCSD 300	280 – 300	4150 X 960 X 1200	5.5	400 X 400 X 1000	700
KCSD 450	400 – 450	4570 X 1170 X 1200	7.6	400 X 400 X 1200	850
KCSD 550	500 – 550	4840 X 1340 X 1200	11.5	500 X 500 X 1000	900
KCSD 750	700 – 750	5600 X 1500 X 1500	11.5	500 X 500 X 1200	950
KCSD 900	880 – 900	6500 X 1710 X 1500	15.26	600 X 600 X 1200	1050
KCSD 1200	1000 - 1200	7450 X 1880 X 2000	19.08	600 X 600 X 1200	1200

Note: * Due to continuous development, specification may change without notice.

▲ K&C ORGANIC WASTE COMPOSTING (OWC) MACHINE

At K&C, we design advanced **organic composting machines** that turn everyday waste into value. The Organic Waste Composting (OWC) Machine is an advanced and eco-friendly solution designed for the efficient treatment of biodegradable waste such as food waste, vegetable waste, garden waste, and other organic materials. The system accelerates the natural composting process through controlled aeration, mixing, and microbial action, converting organic waste into nutrient-rich compost within 24–48 hours

The OWC machine is compact, odor-free, energy-efficient, and suitable for residential complexes, hotels, commercial buildings, industries, hospitals, and institutions. It helps in reducing landfill dependency, lowering transportation costs, and promoting sustainable waste management practices.

▲ Key Features:

- Rapid Composting Cycle – Ready compost in less than 3 days
- Handles All Waste Types – Cooked/uncooked food, vegetables, non-veg, leaves, and garden waste
- Odourless & Hygienic – Fly-free, noise-free, eco-friendly operation
- Fully & Semi-Automatic Options – Choose between semi-automatic composting machines and automatic composting machines
- Low Running Costs – Durable, energy-efficient design
- Compact & Space-Saving – Suitable for housing societies, hotels, corporates & institutions

Whether you need an automatic food waste composting machine for high-volume waste or a smaller food waste composting machine for residential use, K&C Envirotech delivers customized solutions.

▲ Applications:

- Industrial process water
- Boiler & cooling tower feed
- Pharmaceutical & food industries
- Commercial complexes
- Water recycling and reuse system



We manage your Waste; you manage the Rest...!

Model	Fully Automatic	Semi-Automatic	Natural Composter
Capacity Availability	10 kg/day – 5000 kg/day	10 kg/day – 5000 kg/day	10 kg/day – 5000 kg/day
Inbuilt Shredder	Optional	Optional	Optional
Bio-culture	1 g/kg of organic waste	1 g/kg of organic waste	1 g/kg of organic waste
Curing System	Not required	Required	Inbuilt Digester
Operation	<ul style="list-style-type: none"> The machine operates on an in-vessel mixing and composting principle, ensuring controlled and accelerated decomposition. The system runs automatically within a 24-hour cycle, providing continuous and efficient processing of organic waste. Minimal operator intervention is required, with only 1–2 hours of manpower per day, depending on plant capacity 	<ul style="list-style-type: none"> The processed waste is handled in batches and transferred to a curing system, where final compost stabilization takes place. The curing process ensures complete decomposition and improves compost quality. Manpower requirement is approximately 6–8 hours per day, depending on the plant capacity and waste quantity 	<ul style="list-style-type: none"> Organic waste is loaded into an insulated rotating drum. The drum is mounted on four heavy-duty rollers, which enable smooth and uniform rotation. The rotation ensures proper mixing, aeration, and faster composting of the waste material. The system operates in both Manual and Automatic modes. The rotation timing and operational settings can be adjusted as per process requirements
Composting	<ul style="list-style-type: none"> Initial cycle takes 48-60 hrs. Then regular cycle of 22-24 hrs. Bio-culture is required Compost is of high quality but in low quantity. 	<ul style="list-style-type: none"> Initially it takes 12 days then output on regular basis. Bio-culture is required Compost is of quality exceptionally good as compared to fully automatic machine & completely natural. 	<ul style="list-style-type: none"> Initially it takes 10-12 days then output on daily basis. Bio-culture is required Compost is of quality exceptionally good as compared to fully automatic machine.
Area Required	Minium required area we can customize machine size for its proper functioning.	It required approx. 3-4 times larger area required compared to fully automatic machine.	It required larger area required compared to fully automatic machine.

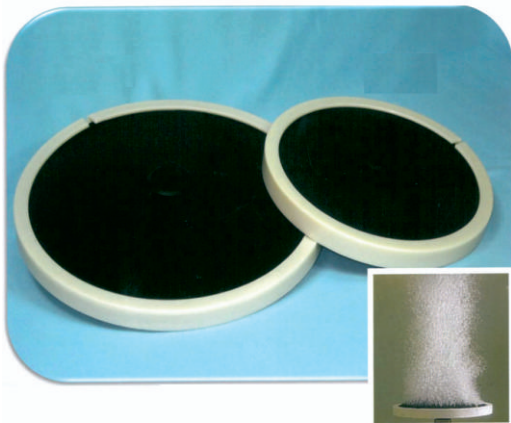
▲ FINE & COARSE BUBBLE DIFFUSER – DISC & TUBE

Fine Bubble Diffuser

Fine Bubble Diffusers are designed to provide efficient oxygen transfer in aeration tanks of sewage and effluent treatment plants. These diffusers generate small air bubbles, which increase the surface area for oxygen transfer and improve biological treatment efficiency.

Coarse Bubble Diffuser

Coarse Bubble Diffusers produce larger air bubbles and are typically used where mixing is more important than oxygen transfer efficiency. They provide strong agitation and are suitable for equalization tanks, grit chambers, and anaerobic or pre-aeration tanks. These diffusers are robust, clog-resistant, and suitable for handling higher solid content in wastewater.



▲ RETRIEVABLE TYPE DIFFUSER ARRANGEMENT IN CIVIL TANK

The Retrievable Type Diffuser Arrangement is specially designed for installation in civil aeration tanks, allowing easy removal and maintenance of diffusers without draining the tank. The system consists of a modular diffuser grid mounted on support frames with guide mechanisms for lifting and retrieval.

This arrangement ensures convenient inspection, membrane replacement, and servicing, thereby minimizing plant downtime and operational disruption. It is suitable for both fine and coarse bubble diffuser systems.

▲ Key Features:

- Easy retrieval without tank dewatering
- Reduced maintenance time and cost
- Robust SS / MS support structure
- Suitable for new as well as retrofit installations
- Compatible with fine and coarse bubble diffusers



Operation & Maintenance (O&M)

▲ Operation & Maintenance (O&M)

We provide comprehensive Operation & Maintenance services to ensure smooth, efficient, and compliant operation of industrial treatment and evaporation plants.

▲ Plants Covered

- ETP – Effluent Treatment Plants
- STP – Sewage Treatment Plants
- MEE – Multi Effect Evaporators
- MVR / MVRE Systems



▲ Scope of O&M Services

- Complete plant operation and process monitoring by trained technical personnel
- Routine inspection and preventive maintenance of mechanical, electrical, and instrumentation systems
- Troubleshooting and breakdown maintenance to minimize plant downtime
- Process parameter monitoring and optimization for stable plant performance
- Chemical dosing management and process control to maintain treatment efficiency
- Sludge handling and disposal management in compliance with environmental norms
- Energy optimization and operational cost reduction
- Spare parts management and equipment health monitoring
- Performance reporting and documentation
- Support for Pollution Control Board compliance and environmental regulation

▲ Authorized Distribution – Hindustan Blowers & Vacuum Technology

We are the Authorized Distributor for Hindustan Blowers & Vacuum Technology, a leading manufacturer of high-quality industrial blowers and vacuum systems used across various process industries.

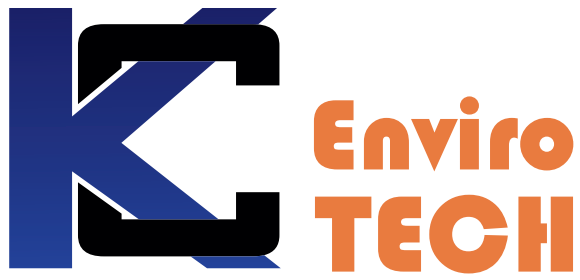
▲ Products Offered

- Air Blowers – Used in aeration systems for ETP/STP plants and other industrial applications
- MVR Boosters – High-efficiency boosters designed for Mechanical Vapor Recompression (MVR) systems used in evaporation processes
- Vacuum Pumps – Reliable vacuum solutions for chemical, pharmaceutical, food, and process industries

▲ Applications:

- Effluent Treatment Plants (ETP)
- Sewage Treatment Plants (STP)
- Multi Effect Evaporators (MEE)
- MVR / MVRE Systems
- Chemical & Pharmaceutical Plants
- Food & Distillery Industries
- Various Industrial Process Applications





Water & wastewater treatment solutions



K&C ENVIROTECH SERVICES

Water & Wastewater Treatment Solutions



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MSME
MICRO, SMALL & MEDIUM ENTERPRISES
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OUR STRENGTH • हमारी शक्ति

Ministry of MSME, Govt. of India

