





DIRECTOR SPEECH

Excel Filtration Pvt. Ltd. (EFPL) is one of the largest Manufacturers, Exporters and Importers of water treatment plant like Packaged Drinking Mineral Water Plant, Carbonated Soft drink project, Juice Project, Ro Plant, STP Plant, ETP Plant and UF Plant etc, serving the industries more than two decade.

Our aim is to provide high quality of machinery with new state of art technology to our client. EFPL always believe in excellence and innovation in technology.

Our Mission is to become India's No. 1 Company.

Chirag Shah
Managing Director

MISSION

- Good companies will meet needs,
- Great Companies will create markets.
- At EFPL, We Help to create market and make you create one for yourself.

Our mission is to deliver the expertise, and earn profit for the customers.

VISION

Our vision is to develop experience, design business which includes adding services to our business and our products. We are here to sell value, not price. Join hands with Excel to excel your business and finally to excel your life.

We represent, serve and promote the latest and advanced technology machineries to different industries/sectors and maximize value for our stakeholders by providing them the best products and services. We maintain their competitive advantage and also provide growth to the Water Treatment Industry.

VALUES

- A. Integrity** : We are honest with others and ourselves. We meet the highest professional standards in all our business dealings. We do what we say.
- B. Responsibility** : We accept responsibility towards our stakeholders, customers, partners and the environment, holding ourselves accountable for our work and our actions.
- C. Teamwork** : We have employees from different culture and backgrounds and with different point of views. We contribute as individuals and succeed in unity by sharing and building on knowledge and opinions that deliver results. We also believe in brainstorming.
- D. Innovation** : We are innovative, practical and bold, allowing us to create new ideas and adopt new technologies for the benefit of our customers, our business, and our employees. New thinking and new ideas are encouraged and nurtured throughout our national / global operation.

OUR PRODUCTS



FRP RO 500 LPH



SS RO 1000 LPH



RO (REVERSE OSMOSIS) PLANT

A. ELECTRONIC WATER CONDITIONER

B. RAW WATER PUMP

To generate the pressure for down the line system.

C. PRESSURE SAND FILTER (PSF)

The water is first filtered by Pressure sand filter Unit for removal of suspended matters and turbidity.

D. ACTIVATED CARBON FILTER (ACF)

To remove Color, Odour, Chlorine, Oil & Grease from the raw water.

E. MICRON CARTRIDGE FILTER (MCF)

These are Pressure Vessels Fitted internally with spun or pleated cartridge element which removes micron sized particles.

F. ANTISCALANT DOSING SYSTEM

To prevent membrane from scaling (hardness).

G. HIGH PRESSURE PUMP

A high pressure pump is provided for supplying the feed water to RO System at high pressure of 10 - 12 kg/cm².

H. DESALINATION SYSTEM BY RO MEMBRANE ELEMENT

A Reverse Osmosis System rejects 90-95% of Total Dissolved Solids (TDS).

I. STORAGE OF TREATED (PURE) WATER

To store Treated (pure) water in tank.

INDUSTRIAL RO PLANT

Size: 100 / 250 / 500 / 1000 / 2000 and above, upto 1 Lac Liters Per Hour (LPH)



RO PLANT 12000 LPH

OUR PRODUCTS

Purified Water Generation System

Product Water Quality Parameters

Conductivity: < 1M S/CM

ph : 5 to 7

Bacteria: <10 CFU/mi

Pretreatment System
(MFG-Softner-RO1)



Pre-treatment System (MFG - Softner - RO1)

EFPL pre- treatment system is Designed & Con-structed to meet water quality parameters required for the EDI food. The System Consist on assembly of Multi grade fitter, softener, Requires Chemical Dosing Systems & RO- I Module.

Purified Water Generation System (RO2-EDI)

PW Generation System Is Designed To Generate Purified Water in Compliance with CGMP Guidelines as per UP Requirement.

Salient Features

The System Constructed from AIS1316L Grade Material, Orbital welded Technology, and Internally surface Finish <0.4Ra

Flexible Outlet Range from 200LPH TO 10000LPH Capacity. Equipped with Touch Screen HM With PLC Based Control To allow Ease in operation And Monitoring. (An Single Access Interface for Full System).

GAMP & 21 CFR part11 compliant

OUR PRODUCTS

PW / WFI Storage & Distribution System

Key Components

- Jackated and insulated Storage Tank
- Sanitary Centrifugal Distribution Pumps
- UV System
- Monitoring Skid
- Control Panel (PLC / SCADA)
- Distribution loop Piping
- Sanitary Spray Ball

PW / WFI Water Storage & Distribution System

EFPL PW / WF Storage & Distribution System is Designed TO Maintain Generated Water Quality As Per USP Guidelines Throughout the Return Loop line.

PW / WFI Loop Piping System

PiN WA Loop Piping is Designed to meet All Required Parameters like return line / Flow, Conductivity, TOC, Temperature & pH.

OUR PRODUCTS



WATER FILTRATION SYSTEM

filtration is a process that removes particles from suspension in water. Removal take place by a number of mechanisms that include straining, flocculation, sedimentation and surface capture. Filters can be categorised by the main method of capture, i.e. exclusion of particles at the surface of the filter media i.e. straining, or deposition with in the media i.e. in-depth filtration.

GREENSOFT ELECTRONIC WATER CONDITIONER

Benefits og GreenSoft Electronic Water Conditioner



- No chemicals used to treat water
- Maintenance free and no extra plumbing required
- Easy to install
- Mains pressure unaffected
- Retains healthy minerals
- Little space required and safe
- Low running cost with negligible power consumption
- Effective on PVC, HDPE, Copper or Steel Pipe
- No wastage of water

| Model | Flow Rate |
|-------------|--------------------------|
| Ex 1" EWC | Max. Flow 2000 Lph |
| EX 1.5" EWC | Max. Flow Upto 3000 LPH. |
| EX 2" EWC | Max. Flow Upto 5000 LPH. |
| EX 2.5" EWC | Max. Flow 7500 Lph. |
| EX 3" EWC | Max. Flow upto 10000 LPH |

And more then it available

OUR PRODUCTS



WATER SOFTENING PLANT

Softening plant is designed to remove calcium and magnesium ions which cause the hardness of water. The hardness in raw water gets exchanged with sodium ions in the sodium based cationic resin bed, thus giving real soft water.

Softening plant is available in Manual as well as PLC based control system with Fully Automatic Option. It is available in FRP/MSRL models.

Softening plant is designed to cater to the requirement of scale Prevention of Utility / Plumbing Fixtures from Total Hardness. softners are available for Bungalow / Institutional / Industrial applications.



| Model | EX S-50 | EX S-80 | EX S-100 | EX S-150 | EX S-180 | EX S-250 | EX S-450 | EX S-700 | EX S-1000 |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|
| OBR | 6250 Ltr. | 10,000 Ltr. | 12,500 Ltr. | 18,750 Ltr. | 22,500 Ltr. | 31,250 Ltr. | 56,250 Ltr. | 87,500 Ltr. | 1,25,000 Ltr. |
| Flow rate per hour | 1000 Ltr. (Max.) | 1500 Ltr. (Max.) | 2000 Ltr. (Max.) | 4000 Ltr. (Max.) | 4000 Ltr. (Max.) | 7000 Ltr. (Max.) | 10,000 Ltr. (Max.) | 15,000 Ltr. (Max.) | 20,000 Ltr. (Max.) |
| Size of vessel | 10 X 54 Inch | 12 X 48 Inch | 13 X 54 Inch | 14 X 65 Inch | 16 X 65 Inch | 18 X 65 Inch | 24 X 72 Inch | 30 X 72 Inch | 36 X 72 Inch |
| Valve Size | 20 NB | 20 NB | 25 NB | 25 NB | 40 NB | 40 NB | 40 NB | 50 NB | 65 NB |
| Resin Qty. | 50 Ltr. | 80 Ltr. | 100 Ltr. | 150 Ltr. | 180 Ltr. | 250 Ltr. | 450 Ltr. | 700 Ltr. | 1000 Ltr. |
| Salt | 8.0 kg | 12.8 kg | 16.0 kg | 24.0 kg | 28.8 kg | 40.0 kg | 72.0 kg | 112.0 kg | 160.0 kg |

- MOC of vessel **FRP**
- M.O.C of tank **HDPE**
- Pipe & fittings **UPVC**

- Valve **3 Nos.**
- Pressure Guage **2 Nos.**
- Hardness Kit **1 No.**

- Feed Water Total Hardness **< 500 ppm**
- Product Water Total Hardness **< 10 ppm**
- Operating Pressure **2.5 - 3.5 kg/cm2**

OUR PRODUCTS



DEMINERALIZATION SYSTEM (DM PLANT)

Excel Demineralizers removes all cations and anions from water.

Excel Demineralizers consists of acid / alkali proof pressure vessel with internal fittings and initial change of cation and anion exchanger. A set of regeneration equipment, hydraulic ejectors, acid and alkali tanks, conductivity meter provides pure Total dissolved salts free water which is required at power projects, pharmaceutical sector, Battery water, Electronic industry, Textile / Process water Applications.

BENEFITS OF DM PLANT

- Easy to use
- Quick & Simple Install
- Portable & Light weight
- No electricity required
- Corrosion free body
- 0 TDS Water
- 10 paisa per liter cost



| MODEL | DM 10 | DM 20 | DM 30 | DM 50 | DM 100 | DM 150 | DM 225 |
|---------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|
| OBR | 3,500 L | 7,000 L | 10,500 L | 17,500 L | 17,500 L | 52,500 L | 78,750 L |
| Flow rate per hour | 200 Ltr. (Max.) | 400 Ltr. (Max.) | 600 Ltr. (Max.) | 1000 Ltr. (Max.) | 2000 Ltr. (Max.) | 3000 Ltr. (Max.) | 4,500 Ltr. (Max.) |
| Cation Resin | 10 Ltr. | 20 Ltr. | 30 Ltr. | 50 Ltr. | 100 Ltr. | 150 Ltr. | 225 Ltr. |
| Anion resin | 10 Ltr. | 20 Ltr. | 30 Ltr. | 50 Ltr. | 100 Ltr. | 150 Ltr. | 225 Ltr. |
| Caustic flakes NaOH | 0.8 kg. (100 %) | 1.6 kg. (100 %) | 2.4 kg. (100 %) | 4.0 kg. (100 %) | 8.0 kg. (100 %) | 12.0 kg. (100 %) | 18.0 kg. (100 %) |

- Product Water TDS < 10 ppm
- Feed Water TDS < 100 ppm
- Working pressure 1.5 kg/cm²
- Regeneration time 90 min

- MOC of vessel FRP
- Make Ion Exchange (I) Ltd./ Equiv.
- Hydrochloric acid/reg. 3-0 Ltr. (30 to 33%)
- Conductivity meter Analog type

OUR PRODUCTS



MB PLANT

Mixed Bed Units are an ion exchange method used where superior water quality is needed. They are typically the last treatment step in the water treatment process train. They are normally positioned downstream of either individual two-bed working ion exchange units or reverse osmosis systems, further treating the effluent of these demineralizers.

For low TDS (Total Dissolved Solids) waters, they can be used as standalone ion exchange units. In this application they are often referred to as "Working Mixed Beds". In condensate polishing applications, you can use Mixed Bed Ion Exchange to remove condensate contamination before reuse. Mixed Beds are ion exchangers that have both Cation and Anion resins, mixed in a single vessel. The resin bed is in the both H-OH form. These units are normally designed so that they can be automatically operated, with all the necessary internals, instruments, components and controls.

Applications:

- Treatment of water pre-demineralised with ion exchange resins
- Polishing of reverse osmosis permeate
- Polishing of sea water distillate
- Treatment of turbine condensate in power stations
- Treatment of process condensate in various industries
- Production of ultra-pure water for the semi-conductors-industry

| Model | MB 10 | MB 20 | MB 30 | MB 50 | MB 100 |
|--------------------|--------------|--------------|--------------|---------------|---------------|
| Flow rate per hour | 200 Ltr Max. | 400 Ltr Max. | 600 ltr max. | 1000 ltr max. | 2000 Ltr Max. |
| Cation Resin | 2.5 L | 6 L | 8 L | 10 L | 20 L |
| Anion Resin | 4 L | 7 L | 10 L | 15 L | 40 L |

| | | | |
|--------------------|------------------------------|-----------------------------|-----------------|
| • Feed TDS | <20 ppm | • Diaphragm valve | included |
| • Output TDS | <1 ppm | • Online conductivity meter | Included |
| • Working pressure | 1.5 kg / cm ² | • Type of valve | Diaphragm Valve |
| • MOC of vessel | FRP | • Qty of valve | 5 no's |
| • Make | Make - Ion Exchange (I) Ltd. | • Operation | manual |

OUR PRODUCTS



ULTRAFILTRATION PLANT (UF PLANT)

- Operation : Semi / Fully Automatic
- Self encapsulated hollow fiber ultrafiltration membrane module (inside- out)
- Operating mode : Dead - end or cross flow, Back Washable
- Module Mounting : vertical
- Nominal membrane pore size : 0.02 micron
- Membrane Material : hydrophilic PES / PVDF
- Housing Material : UPVC
- Nozzles size : 2" Victolic





ELECTRODEIONIZATION (EDI)

The Electro-deionization process uses electric current to treat (polish) desalinated water from RO systems etc., to ultra-pure standards required for many critical applications. EDI water systems will replace the conventional Mixed Bed Polishers and provide several advantages including

- Lower capital and installation costs
- Easy to maintain
- Regeneration not required
- No handling of harsh chemicals
- Smaller footprint

We offer a wide range of sizes, materials of construction, and configurations to meet all the required water parameters from EDI. Our EDI units are salt-free and do not require external salt

dosing. They can be ordered either as a stand-alone unit or integrated into the most complex of deionized water control systems.

KEY APPLICATIONS

- High-pressure boiler make-up for power generation etc.
- WFI (water for injection in the pharmaceutical industry)
- Semiconductors manufacturing process
- Other high-end applications.

UV SYSTEM 200 LPH TO 10000 LPH

- MOC Of Housing- SS 304
- Make Of Lamp- philips / Equiv
- Capacity- From 100 LPH To 5000 LPH & Above
- Size Of Lamp- From 6w To Above All



**PRESSURE BOOSTER SYSTEM
(PRESSURE PUMP)**



SWIMMING POOL FILTER SYSTEM

OUR PRODUCTS



SEWAGE TREATMENT PLANT (STP)

Excel Sewage Treatment Plant used to treat sewage created by Hotels, Industries, Hospital, Colonies, IT Parks, and Commercial Buildings etc. We manufacture and assure usage of qualitative materials in fabricating Sewage Treatment Plant up to industrial standards. It is easy to install & operate, & require low maintenance cost. It helps providing the society with a clean healthy environment around them. It can be availed at feasible prices in the market.

Excel has developed standardized models based on MBBR and MBR Technologies, which are the most advanced state of the art technologies nowadays.

SALIENT FEATURES

- Customized designs to meet customers individual requirements
- Minimal visual impact.
- Flexible supply lead times.
- Treats to the highest standards
- As per pollution control Board Norms.
- Unique flow balancing in primary tank
- Copes with variable flows and loads
- Reliable operation and standby facility.
- No internal moving parts, reducing the need for maintenance access.
- Diffuser systems are accessible from the surface hence the tank does not need emptying during maintenance on the air distribution system.
- Large access covers
- Humus and primary sludges are stored in one place for simple tanker operation.

SEWAGE TREATMENT PLANT (STP): TECHNOLOGIES WE OFFER!!!

- MBR (Membrane Bio Reactor)
- MBBR (Moving Bed Bio Reactor)
- SAFF (Sub merged Aerated fixed film)
- SBR (Sequencing Bio Reactor)
- FBR (Fluidised Aerobic Bioreactors)
- MBR (Membrane Bio Reactor) and so on based on requirements.

IDEAL TREATMENT SOLUTIONS FOR

- Bungalows / Houses / Apartments / Condominiums
- Hotels / Resorts / Golf Course
- Hostels / Universities / Schools
- Office Buildings / Training Centers
- Hospitals
- National parks / zoos / Places of worship
- Factories / Workshops / Industries
- Bus Terminals / Railway stations / Airport / Harbors
- Stadiums / Shopping malls
- Commercial complexes / Markets

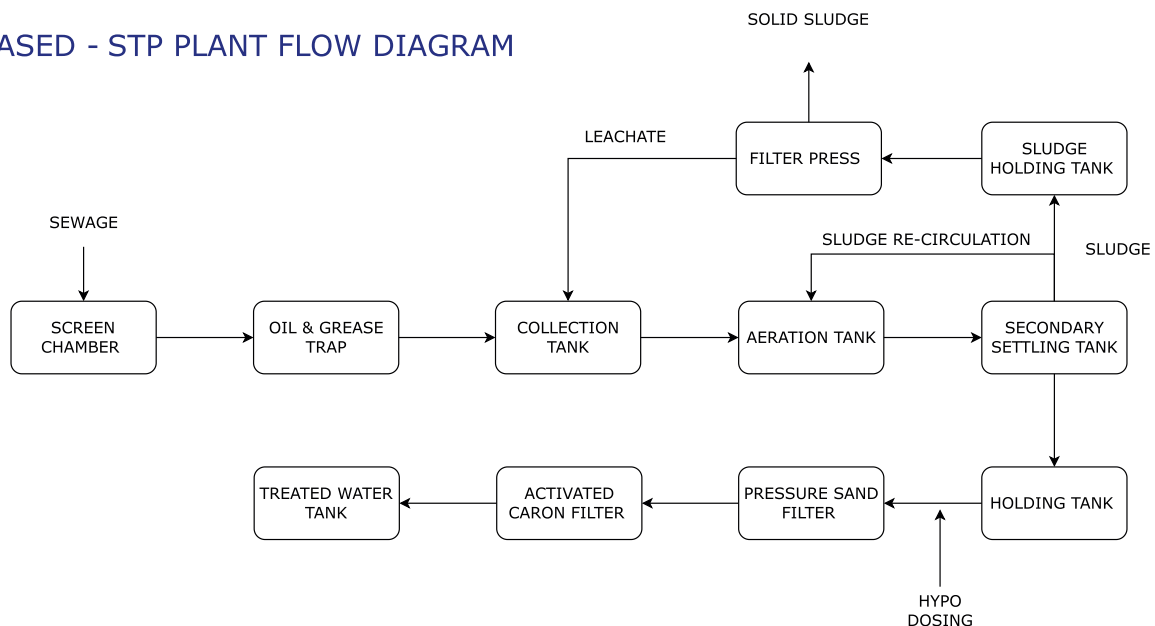
BENEFITS OF STP:

- Based on Green Technology Concept
- Minimum Discharge.
- Low power consumption
- Sludge removal once in two years.
- Pre- Engineered & Prefabricated Plant.
- No odour problem.
- Negligible Operating Cost.

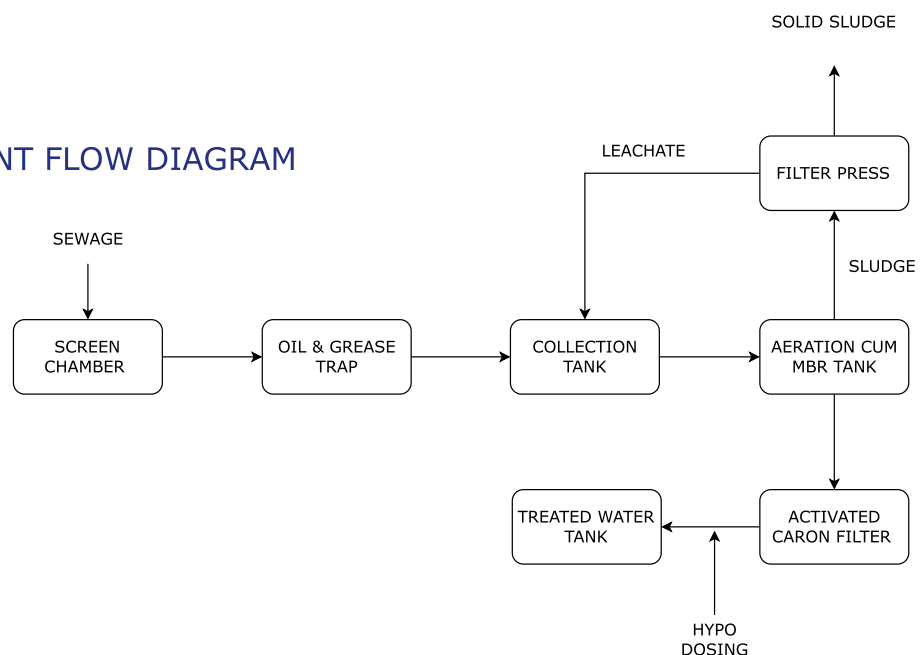
SERVICES WE PROVIDE:

- Preventive Maintenance
- Predictive Maintenance
- Operation round the clock
- On site assistance by skilled & qualified engineers
- Services round the clock 24x7x365 days
- Onsite Residential Engineer Support
- Supply of chemicals (If covered under O & M)
- Upgrading existing facilities with respect to capacity and quality parameters in order to reduce cost of operations.
- Recommend/execute engineering changes to reduce energy bills. This is achieved by identifying suitable technology and recommending variable frequency drives, PLCs, etc. for pumping systems and AHU fan blowers.
- Retrofit jobs are undertaken with assured benefits to the client. Till date, retrofit assignments have been successfully implemented in the residential, commercial and industrial sectors

MBBR BASED - STP PLANT FLOW DIAGRAM



MBR BASED - STP PLANT FLOW DIAGRAM



OUR PRODUCTS



EFFLUENT WATER TREATMENT PLANT (ETP)

Excel Effluent Water Treatment Plant for various types of wastewater and effluents to remove suspended solids, organic, heavy metals, oil and grease & suspended solids. It is made at our facility according to the prevailing industrial standards. Also our team of inspectors conducts quality check on various parameters to be sure at our end, before delivering the product. Effluent Water Treatment Plant is offered at cost-effective prices in the market.

Effluent water Treatment Plant

- EFFLUENT TREATMENT PLANT(ETP): WHAT WE PROVIDE/OFFER!!!
- Specific research, design, calculation, development and erection of plant
- Turnkey Execution
- Expertise in all type of design: Extended Aeration, Anaerobic Reactors, Trickling filters, SAFF systems, SBR, MBBR & MBR Systems etc.
- Testing and Commissioning of Mechanical, Electrical, Piping, and Instrumentation items of works
- Efficiency Improvement
- Treatability Studies
- Feasibility Studies

What we guarantee??

- Controlled Biological Oxygen Demand (BOD), Carbon Oxygen Demand (COD) & pH.
- On site assistance by qualified engineers
- Zero discharge
- Colourless & odour less treated water
- Highly suitable for inconsistent Effluent



ZERO LIQUID DISCHARGE – ZLD

- Multiple Effect Evaporator (Zero Liquid Discharge – ZLD)
- Product Recovery Systems
- Stripper System
- Agitated Thin Film Dryer (ATFD)
- Caustic Recovery Plant
- Heat Exchanger
- Vessels
- Tanks

OUR CLIENTELE



And Many More...

OUR CERTIFICATIONS



Excel House



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