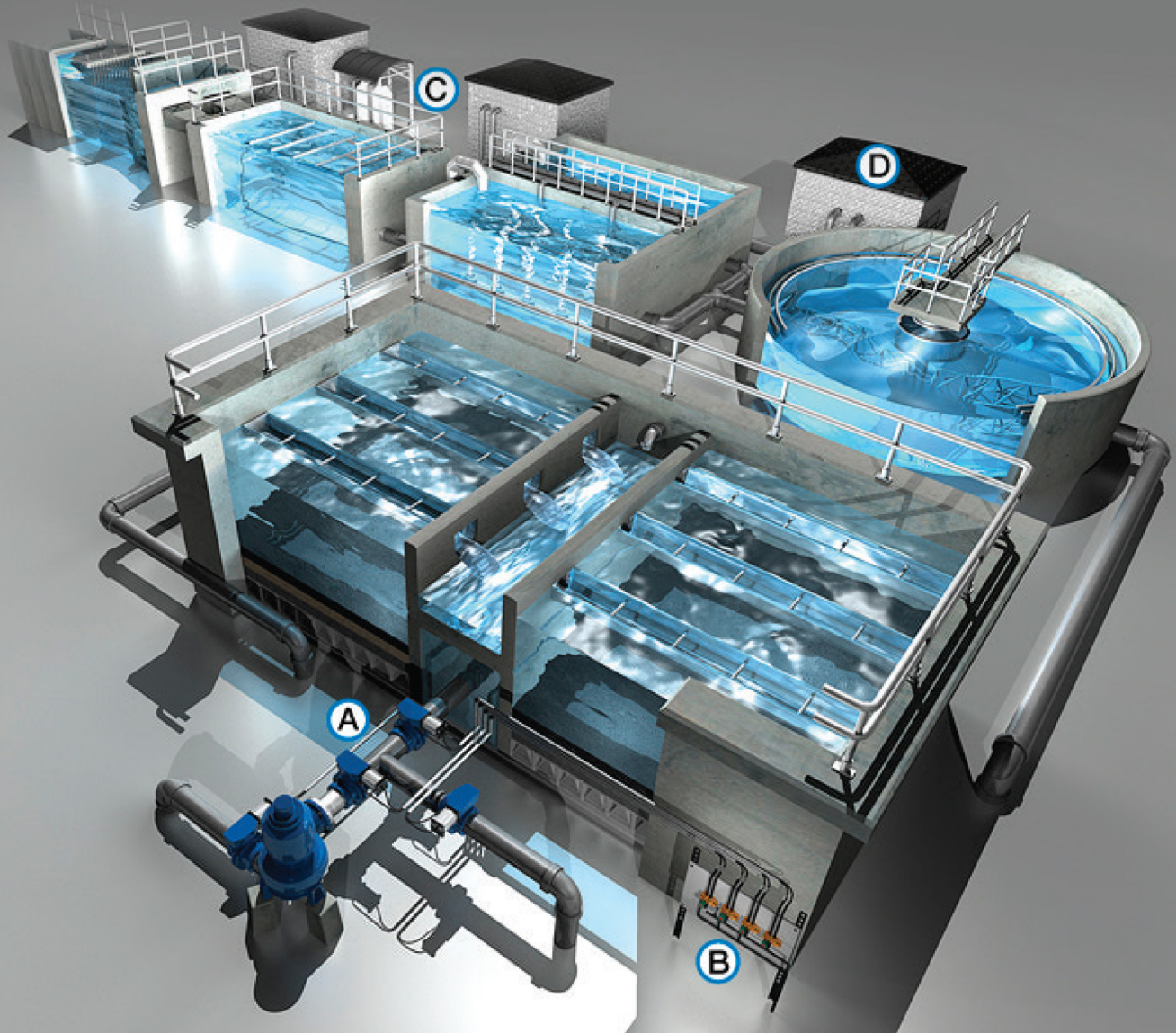


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ENGINEERING 

## OUR MISSION

To provide customer focused, forward-thinking, water management services using the long-standing principles of trust, honesty, and integrity. We will bring value driven expertise and Eco-friendly technologies to protect equipment and conserve energy and water resources.



## ABOUT US

Chelate Engineering is one of the renowned, established & technically competent Water Management organizations in Kerala certified with ISO 9001-2015 & Member of WQIA, integrated in the year 2011. With our consistent and dedicated approach, we have developed expertise in all types of water and waste water/ Effluent treatment systems. Technology we do offer in our treatment plants include Moving Bed Bio Reactor (MBBR), Sequencing Batch Reactor (SBR), Submerged Aerobic Fixed Film Reactor (SAFF), Activated Sludge Process (ASP), and Membrane Bioreactor (MBR). At Chelate, we have a team of experienced engineers and technicians expertise in the different areas of water and environmental engineering including design, erection, commissioning and complete execution and validation of Turnkey projects and work in coordination with the clients to provide tailor made solutions specific to their needs. Our ultimate aim is to be a technology driven fully integrated water solutions provider; with continual improvement in our quality management systems by giving products at competitive price and delivering with excellent quality & with full compliance to the required standard.

## OUR PRODUCTS

### Sewage /Effluent Treatment Plants

#### Technologies/Processes we incorporated,

- Physical and Chemical Treatments
- Aerobic Biological Processes –Moving Bed Bio Reactor (MBBR)
- Anaerobic Biological Processes
- Membrane Biological Reactor (MBR)
- Sequencing Batch Reactor (SBR)
- Activated Sludge Process (ASP)
- Membrane/Sand/Carbon Filtration Tertiary Treatments
- Dissolved Air Flotation (DAF)
- Sludge Treatment

#### Digesters

Mechanical Dewatering - filter press &  
Centrifuge  
Sludge drying Beds

- Water Reuse and Recycling

Filtration (UF, MF, NF), Reverse Osmosis,  
Evaporation Zero Liquid Discharge (ZLD)



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## Water Treatment Plants

### Technologies/processes we incorporated,

- Pre-ozonation, UV Disinfection and chemical dosing
- Single-layer and multi-layer filtration
- Adsorption on activated carbon beds
- Treatments with Membrane Filtration  
Ultra Filtration  
Reverse Osmosis  
Iron removal Filters  
Softeners/ De-mineralizers

## Vehicle Wash water reclaim Plant

### Technologies/processes we incorporated,

- Oil Skimmers & separators
- Sedimentation Process with Parallel Plate System
- Single-layer and multi-layer filtration
- Adsorption on activated carbon beds
- Anaerobic/aerobic Process
- Reuse - Ultrafiltration

## Food waste management

### Benefits,

- 90% volume reduction
- No Bacteria/additives
- No fresh water
- Low maintenance
- No emissions
- No landfill cost
- No venting



## WE PROVIDE THE FOLLOWING SERVICES

### Process Design

Our company often works with consulting engineering firms to assist in process design for maximum performance of treatment or production processes.

### Erection & Commissioning

Being one of the reputed organizations of the industry, we are offering an exclusive range of water /waste water treatment Plants, Erection & Commissioning Services to our precious clients. These offered services are rendered using high quality tools under the supervision of skilled personnel



## Operation & Maintenance

Our association with our clients does not end with a project completion, as we provide our customers the services benefits & operational managements- not only from the distance to closely monitor the plant performance data on day to day basis but also undertake comprehensive and non-comprehensive Operational Contract to operate & maintain the plant on a long term basis.



## Annual Maintenance Contract

Our aim is to make the client independent and confident in operating the plant. Hence we always prefer to have AMC contracts so that the client can independently operate the plant while having means to monitor and ensure 100 % perfect operation

## Retrofitting

It is always our endeavor to offer the best technologies. In case a particular client has gone for a non-operating or less efficient technology, we encourage our clients to modify their plant while making use of the majority of existing equipment i.e. retrofitting the old plants with equipment of the latest technology in order to restore maximum efficiency possible with minimal cost.

## Training

Our company is committed to supporting you in the development of your employees by equipping them with both the knowledge and tools to successfully manage their water treatment program. To best accommodate the diverse needs of our customers, we offer training programs in a variety of structures either at our office or on-site at your location.

## Environmental consultancy services

All necessary liasoning works for getting the approval of Consent to Establish & Consent to Operate. Assistance for procuring necessary clearances from KSPCB without any delay

## SECTORS WE SERVE

- Hotel & Resorts
- Water theme parks
- Institutions
- Malls / Commercial Complexes
- Clubs
- Hospitals
- Flats/ Apartments
- Industries



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