



**AQUATECHNICS**  
WATER | WASTEWATER | ENVIRONMENT

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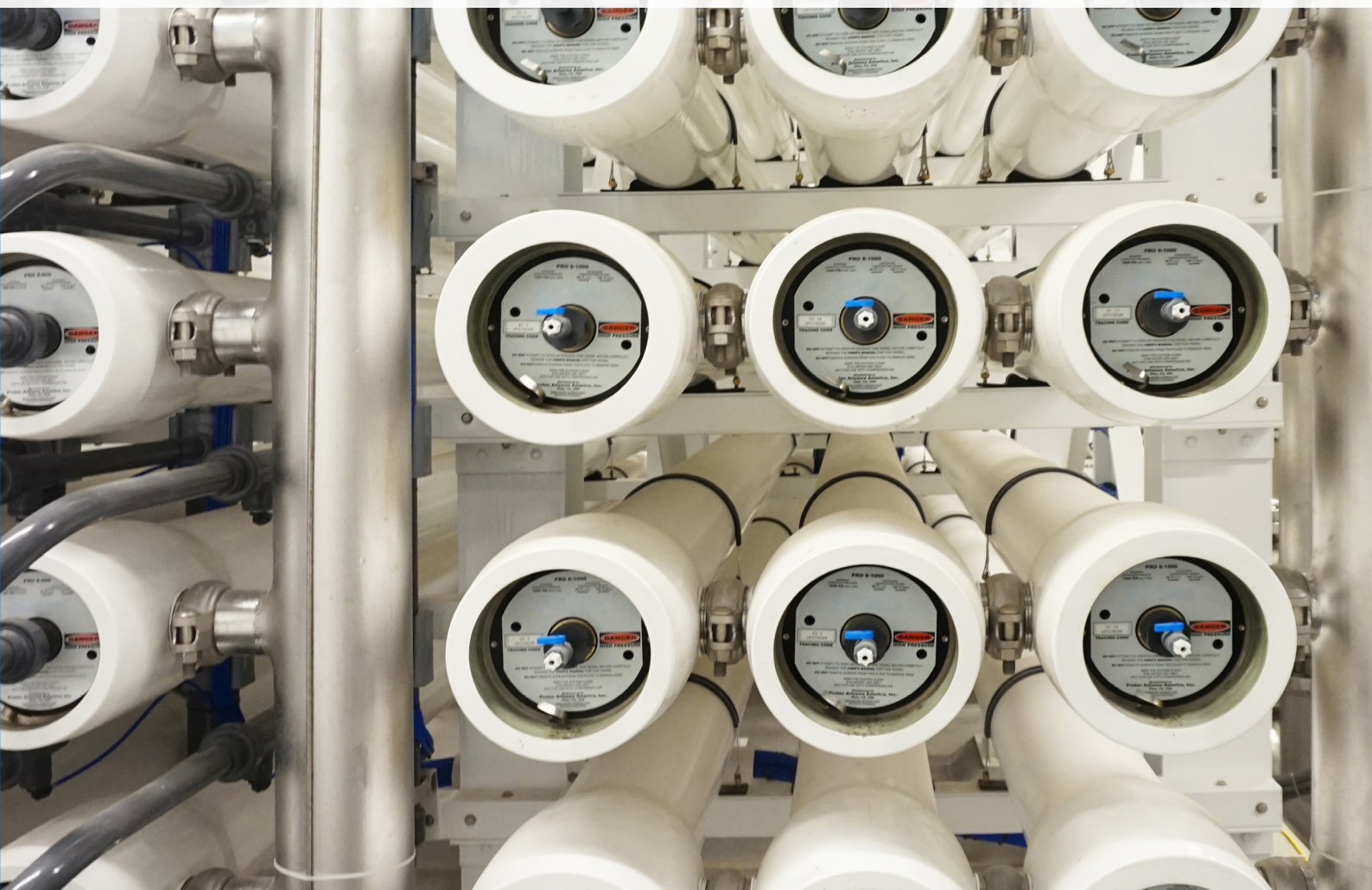
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Protecting the **#bluegold**

AQUATECHNICS  
WATER | WASTEWATER | ENVIRONMENT

# World Class Water & Environmental Engineering. Local Access.

APPROVED CONSULTANT FOR  
 **SUCHITWA  
MISSION**  
LOCAL SELF GOVERNMENT DEPARTMENT KERALA



More than  
**65,00,000**  
Litres of Wastewater  
treated daily

Up to **40%**  
Cost Reduction in  
Civil Construction

**20%-50%**  
Reduction in Energy  
Consumption

**30-100%**  
Wastewater  
Reuse

# About Aquatechnics

Each drop of the **#bluegold** we recover, is a drop recovered for our children's future.

From 2010, when we began in a humble manner, we have been serving customers most responsibly and have become a highly regarded company in Water & Wastewater treatment segment over the years. With our presence extended to Solid Waste Management and other Environmental Services, Aquatechnics is maturing into an Environmental player with a wide spectrum of solutions in the Water & Environmental Space. We have consistently outperformed the expectations of the customers and investors by providing Win-Win solutions over the years.

## Mission

To be the most trusted and dependable Water and Environment company in the country and take part in the transformation of the market with local and cost effective access to World class technology.

## Vision

Increase access to State of the Art technology, Tools and Customer service in the Water and Environmental Sector and accelerate the progressive transition of Environmental Protection.

## Our Leadership Team

**Knowledgeable, Reliable, Dependable.**

A young, reliable and dependable team is what makes us unique. Being spent a decade in the Market providing solutions that helped us save the most precious resource of our planet, we have evolved in expertise and experience in Water, Wastewater and Environment.



**B Rajesh Kumar,**  
CMD

Rajesh is a time tested and matured Water systems engineer. He has been associated with several projects in India and the MEA in the past. As a founder and an integral part of the company, Rajesh has been instrumental in leading the company into a highly successful market positioning.



**P Pushpakumar**  
CEO

Pushpakumar is a Chemical Engineer and Chief Executive of the company. Across a career spanning a decade and a half, he has worked for various contractors / associates in Gas Processing, Construction and Water. Being associated from inception, he has been a chief strategist and has helped transform the company and develop our vision forward.



**S Dileep**  
CTO

Dileep is a Chemical Engineer with many years of experience in R&D, Process Development, FEED and Detailed Engineering and Commissioning in diverse industries and MNCs. Aquatechnics has immensely benefited from his past experiences in the formation as well as the development of our think tank and technical capabilities over the years.



**PB Shemi**  
COO

Shemi is a Computer Engineer by training and has been part of the operations team through the period of transition in Aquatechnics. Her inputs have taken our operations team achieve great heights by increased efficiency, time bound deliveries and continuous improvement.





# Why Aquatechnics ?

Because Every drop counts, and every penny.



By saving each drop of water or **#bluegold** from contamination, we are saving them for our future generations. It really matters in a country in a fierce scare of droughts too early into its development plans. Indian population is reaching 1.6 Bn by 2050 while more than 20 of our cities may run dry of groundwater before 2030 going by present estimates.



In 2019, each day, **over 65,00,000 litres of Wastewater** from multiple sources were treated in 70+ plants by Aquatechnics before it reached back to the ground.



**More than 40% reduction of Civil Construction** cost is ensured with newer technology, from conventional plants and attached growth technologies to state of the art MBRs.



More than 50% of nutrient removal in our plants require no energy and real time monitoring can help to **reduce Energy consumption by a further 20%.**



**A minimum 30%, and up to 100% Reuse** of treated wastewater can be provided in well designed systems, thus protecting the **#bluegold** for our future generations.

## Our Values

If ideas are accelerators, values are our brakes. We believe strongly that these values are the guiding forces which would take us to greater success.

### Action bias

At Aquatechnics, we expect each of us to act fast. When times are tough, we keep us highly action oriented and dynamic to get us to our results by taking action and leading by example.

### Dependability

A high level of trust in our team, technology and tools help us to make ourselves the most dependable player in our sector by continuous improvement, being shaped through continuous customer feedback.

### Innovation

Each day and at each level, innovation comes at a cost of time to think and the risk of acceptance. Being continuously innovating is a value that drives us forward each day.

### Transparency

A transparent work environment leads to greater trust. We are a less layered team with a very transparent ecosystem within the team and with the customers thus setting right expectations every time.

# Projects

A wide spectrum of Environmental Projects and Products in Water, Wastewater and Solid Waste Management.

## Projects / Products

- › Water & Wastewater Treatment Plants
- › Skid mounted and modular Plants
- › Solid Waste Management and Biogas Plants

## Components

- **Fluid Transfer Equipment**
  - › Pumps
  - › Air Blowers
  - › Dosing pumps
  - › Aeration Systems
- **Chemicals**
- **Speciality Chemicals**
- **Engineered Plastics**
  - › MBBR Media
  - › HAF Media
  - › Tubesettler Media
- **RO & UF**
- **Filtration Media**
  - › Sand & Pebbles
  - › Activated Carbon
  - › Iron Removal Media
  - › DM & IEx Resins
- **Control & Switchgear**
- **Instrumentation**
  - › Pressure, Flow, Temperature & Level
  - › pH, TDS, ORP
  - › DO Monitoring
  - › Real time Plant Monitoring



# Services

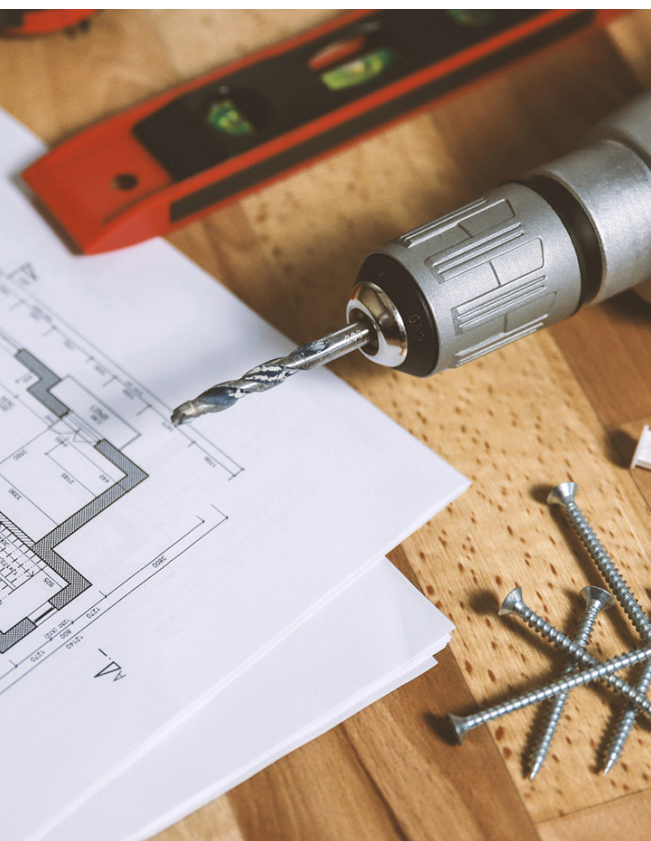
At Aquatechnics, we assure our clients of the best in class Engineering and Maintenance Services, meeting or exceeding the customer's expectations every single time.

## Engineering Consultancy

- › Environmental Consulting
- › Conceptual and FEED Engineering
- › Water & Environmental Auditing
- › Liaising for Statutory Approvals

## Maintenance, Repairs & Retrofitting

- › Inspection & Troubleshooting
- › Operation & Maintenance Contracts
- › Annual Maintenance Contracts
- › Rate Contracts for Consumables & Chemicals
- › Equipment Maintenance, Repairs & Replacements
- › Replacement of Membranes & Filter Media
- › Instrument Calibration & Checking
- › Water Analysis & Reporting
- › Training to Staff & Operators
- › Community Training
- › Manuals & Operating Logs Development



# Our Expertise

With hundreds of installations in the Water and Wastewater sector with varying complexities and challenges, we have grown by leaps and bounds into a leading player in our part of the globe. With State of the Art technology and optimized operations, our plants offer excellent results and cost competitive operation.

## Water Treatment

- ▶ Media Filtration
- ▶ Membrane Technology
- ▶ Ultrafiltration
- ▶ Nanofiltration
- ▶ Reverse Osmosis
- ▶ Demineralization & Ion Exchange
- ▶ Disinfection
- ▶ Ultraviolet Sterilization
- ▶ Chlorination
- ▶ Ozonation
- ▶ Other Disinfection Systems
- ▶ Agricultural Water Treatment

## Sewage & Effluent Treatment

- ▶ Membrane Bioreactor (MBR)
- ▶ Moving Bed Bioreactor (MBBR)
- ▶ Sequential Batch Reactor (SBR)
- ▶ Submerged Aerobic Fixed Film Reactor (SAFF)
- ▶ Anaerobic Bioreactors
- ▶ An-MBR / An-UF
- ▶ Electrocoagulation
- ▶ Zero Liquid Discharge Systems (ZLD)
- ▶ Advanced Oxidation Processes
- ▶ Oil and Grease Removal
- ▶ Sludge Dewatering and Management
- ▶ Dissolved Air Flotation

## Water Management

- ▶ Agricultural Water Management
- ▶ Aquaculture
- ▶ Rainwater Harvesting
- ▶ Pond and Lake Bioremediation

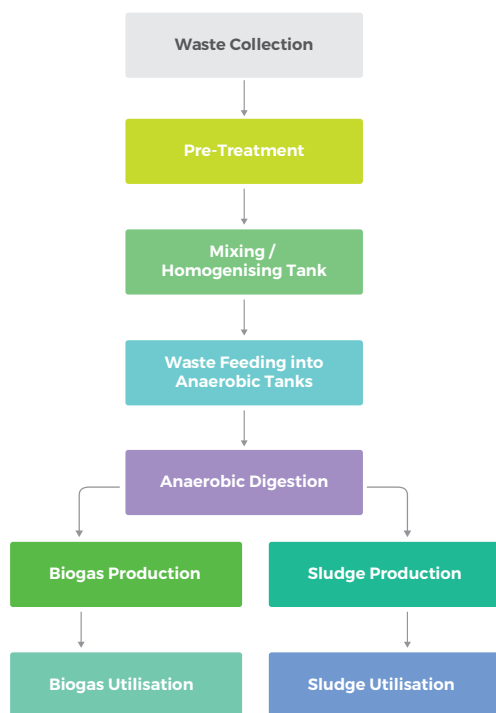
## Solid Waste Management

- ▶ Biogas Plants
- ▶ Sludge Reuse in Agriculture
- ▶ High Rate Composting
- ▶ Waste to Energy

## Sectors we serve

- Domestic & Commercial
- Municipal Water & Sewerage
- Hospitals
- Apartments
- Malls and Commercial Complexes
- Religious Centers
- Educational Institutions
- Bus Terminals
- Auditoriums & Cinema Halls
- Stadiums
- Fish & Vegetable Markets
- Community Housing Colonies
- Farms & Agriculture
- Aquaculture
- Agricultural Water Treatment
- Industrial Water & Wastewater Treatment
  - ▶ Food Technology
  - ▶ FMCG
  - ▶ Iron & Steel
  - ▶ Printing & Dyeing
  - ▶ Textiles
  - ▶ Pharmaceuticals
  - ▶ Chemicals & Agrochemicals
  - ▶ Laundry
  - ▶ Automobile Wash Water Treatment & Reuse





## Natural Process accelerated and Controlled by Technology

Making our mark in the Solid Waste Management vertical, Aquatechnics has partnered with **Bio Energy Systems** in 2019. The company has installed numerous Biogas plants, has consistently delivered reliable Biogas systems across Kerala and has a very strong customer base. Bio Energy Systems has received the Kerala State Energy Conservation Award in 2011.

Biogas is a mixture of gases produced by the breakdown of organic matter in the absence of oxygen, consisting of certain quantities of methane and other constituents in a controlled environment and confinement.

Bio Energy Systems have executed pioneering projects like the 3000 kg/day NEDA Model Biogas Plant at Agricultural Urban Wholesale Market, Maradu and five numbers of Biomethanation Plants to treat ghee residue generated in the MILMA dairies at Kalpeta, Kozhikode, Naduvattom, Kannur and Palakkad.

### Ideal for

- ▶ Hospitals
- ▶ Restaurant & Hotels
- ▶ Industrial Canteens
- ▶ Educational Institutions
- ▶ Residential Complexes
- ▶ Resorts
- ▶ Religious Shrines
- ▶ Convention centres
- ▶ Hostels etc.

### Where we are

**10+** Medical Colleges

**20+** Educational Institutions

**50+** Commercial Buildings

**50+** Multi Specialty Hospitals

**50+** Hotels, Restaurants, Retreat Centres





## Major Clientele

