



**WATER&YOU**

Water is Life. It nourishes us.  
It cleans us and sustains us.  
Put simply, **Water is You.**

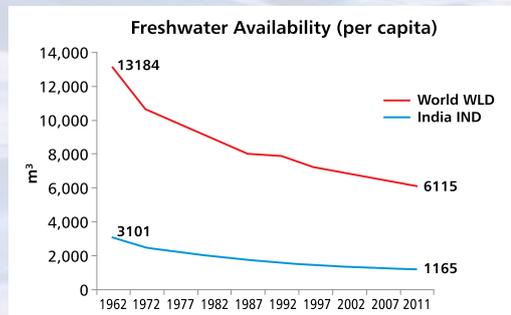
 **Aldee**

**COMPLETE  
WATER MANAGEMENT  
SOLUTIONS**

# WATER&YOU

## Water availability in India

Historically India's per capita availability of fresh water has been far lower than the World average. Over the last fifty years, the per capita entitlement of freshwater to the average Indian has decreased by 60% and is currently at 1/6<sup>th</sup> of the world average.



India faces a serious challenge of allocating its scarce water resources amongst competing uses of agriculture, industry and domestic use with its declining per-capita availability.

India is also the largest consumer of groundwater in the world. Approximately 60% of the demand from agriculture and irrigation, and about 80% of the domestic water demand, is met through groundwater. According to the World Bank, India accounts for 30% of the groundwater abstraction of the top ten groundwater abstracting countries in the world.

The situation is only expected to worsen as the Indian economy grows to support the increasing aspirations of its population. The demand for water is projected to overtake its availability in India somewhere between 2025 and 2050; in the next decade itself, this demand is expected to grow by 20%. Another serious dimension to this issue is the quality of water available.

**97%** of all the water on the earth is salt water, which is not suitable for drinking. Only 3% of all the water is fresh water, and only **1%** is available for drinking. **2%** of the available freshwater sources is locked in ice caps and glaciers.

India is currently facing a challenging scenario with respect to water availability and quality. Vast changing and geographical variation with respect to availability, rapid industrialisation and an evolving policy and regulatory framework pose wide-ranging questions to service providers and policymakers on the sustainability of this precious resource. Water is projected to be in limited supply across the spectrum of major users in India. Considering this global scenario

## waste water reuse is key to securing India's water future



At Aldee Water, we are passionate about what we do. We know how important it is. Today, Wastewater recycling and reuse can prove to be a technically feasible and financially viable option among the multiple options to achieve sustainability.

We are proud to introduce ourselves as one of the well established leading water management Company having completed decades in water management solutions. We are able to offer you a wide range of equipment and systems for water purification plants, waste water treatment plants and industries of all sizes. We have a team of engineers with a passion for developing ideas and technical solutions for recycling waste water to Pure Water, that can drive our industry forward.

Aldee Water, with its wide product range, is always committed to serve the "Need of Pure Water" in the best possible manner in...

- **Water Treatment**
- **Effluent Treatment & Recycling**
- **Sewage Treatment**
- **Zero Liquid Discharge**



# Water Treatment

Pure water  
from any source,  
anywhere

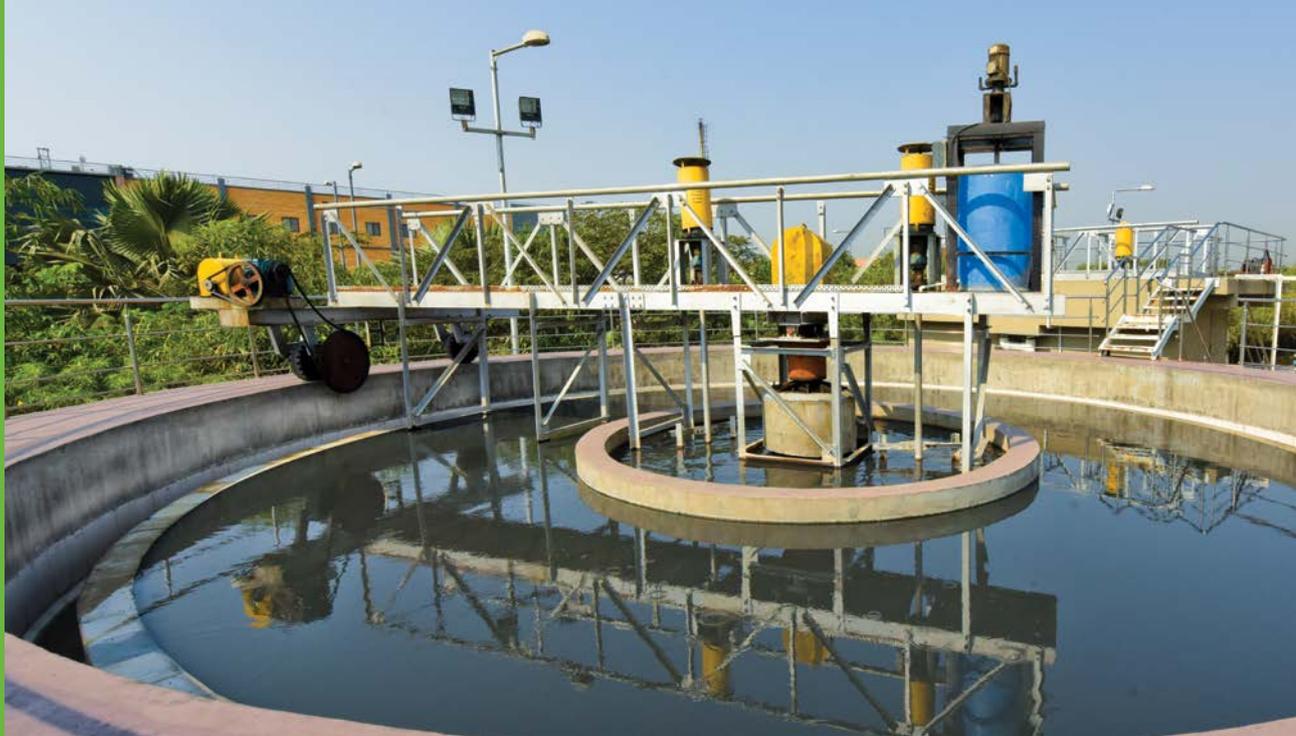
Water purification is the process of removing undesirable chemicals, biological contaminants, suspended solids and gases from contaminated water and makes it more acceptable for a specific end-use.

Aldee Water covers virtually every need from conventional processes to tailor-made high-performance systems. We design compact size systems with fully automatic SCADA/PLC based for trouble-free operation. Our high standard materials, in engineering and energy efficient components, leading to low operating cost.

Aldee Water offers the full spectrum of industrial water solutions for different sectors like, Power, Chemicals, Pharmaceuticals, Textile, Steel, Paper, Food & Beverages Semiconductor and many more.

- Clarification System
- Ultra Filtration System (UF)
- Reverse Osmosis System (RO)
- Nano Filtration System (NF)
- High Purity Generation and Distribution System
- Demineralisation Plant (DM)
- Ozonation, ClO<sub>2</sub> Dosing & UV System





# Effluent Treatment & Recycling

Helping industries to Go Green, turning economic growth into sustainable development & profit.



Effluent treatment is a process of treating the waste water from various industries and make it reusable. Every industry has different effluent with variety of impurities like COD, BOD, TSS, TDS. This impurities needs to be treated to a certain level before disposing to sewer or reuse. The treatment includes mechanical, chemical, physical and biological processes.

Recycling of effluent is very important due to growing scarcity and increasing demand of water. We employ processes like ultra-filtration, nanofiltration and reverse osmosis for water recovery. Aldee Water, with in-house R&D, promoting modern and innovative technologies like **PVA Gel** and MBR to treat this impurities. We also provide fully automatic system for trouble-free operation.

**PVA(Polyvinyl Alcohol) Gel is a porous hydrogel that is ideally suited immobilization of microorganisms essential for the degradation of environmental pollutants.**

#### Advantages of PVA Gel:

- Lower foot print, huge saving in Civil/Land cost.
- Less excess sludge as compared to conventional biological method.
- Power saving, due to compact area & less air requirement compare to conventional system.
- Chemical consumption will be lower, consistent MLSS is maintained
- Consistent COD / BOD reduction.
- Replacement cost is nil, life of PVA Gel is 25 years, after 10 years only 5% top-up required.
- With PVA Gel, existing overloaded system can be enhanced upto 5 times with reduced foot print.





# Sewage Treatment

Giving back to nature what we take from it.

Sewage treatment is the process of removing contamination from domestic wastewater. It is treated by mechanical, chemical, physical and biological processes. Sewage water is released into rivers, lakes and sea which creates environmental and human risk. Thus it is necessary to treat this wastewater before discharging and treated water can be used for various purposes. Aldee water provides standard containerised and tailored made sewage treatment plants for hotels, municipalities, commercial buildings, hospitals and residential housing.

#### Aldee water uses following technologies :

- PVA (Polyvinyl Alcohol) Gel base system
- MBBR (Moving Bed Bio-film Reactor) base system
- MBR (Membrane Bio-reactor) base system
- SBR (Sequential Batch Reactor) system
- FAB (Fluidised Aerobic Bio-reactor) system

#### Salient features of Aldee STP Plant

- Compact in design, huge saving in civil & land cost
- Low power and chemical consumption
- Component replacement cost is very low
- No Media replacement cost
- Fully auto system available in pre-fab container or civil structure
- Lower maintenance cost

Continuous R&D makes us the leading player in field of Water Treatment & Recycling.



# Zero Liquid Discharge



Zero Liquid discharge refers to installation of facilities and system which will enable industrial effluent for absolute recycling of permeate and converting solute (dissolved organic and in-organic compounds / salts) into residue in the solid form by adopting method of concentration and thermal evaporation.

Aldee water offers two types of Evaporators :

- Metallic Evaporator
- Multi-effect Evaporator



## Our People, Our Strength

Aldee Water excels in the design, manufacture, installation and after sales of each system, regardless of its size. We are always ahead with the latest technological advances in the industry. We maintain a work culture within the organisation where the values of respect, teamwork, feedback, innovation and perseverance are encouraged and expected. Our team offers scheduled maintenance, plant performance checks and health reports aimed at improving plant yield and better ROI to customers. This team has proven credentials in providing services to all the segments projects in India and abroad.



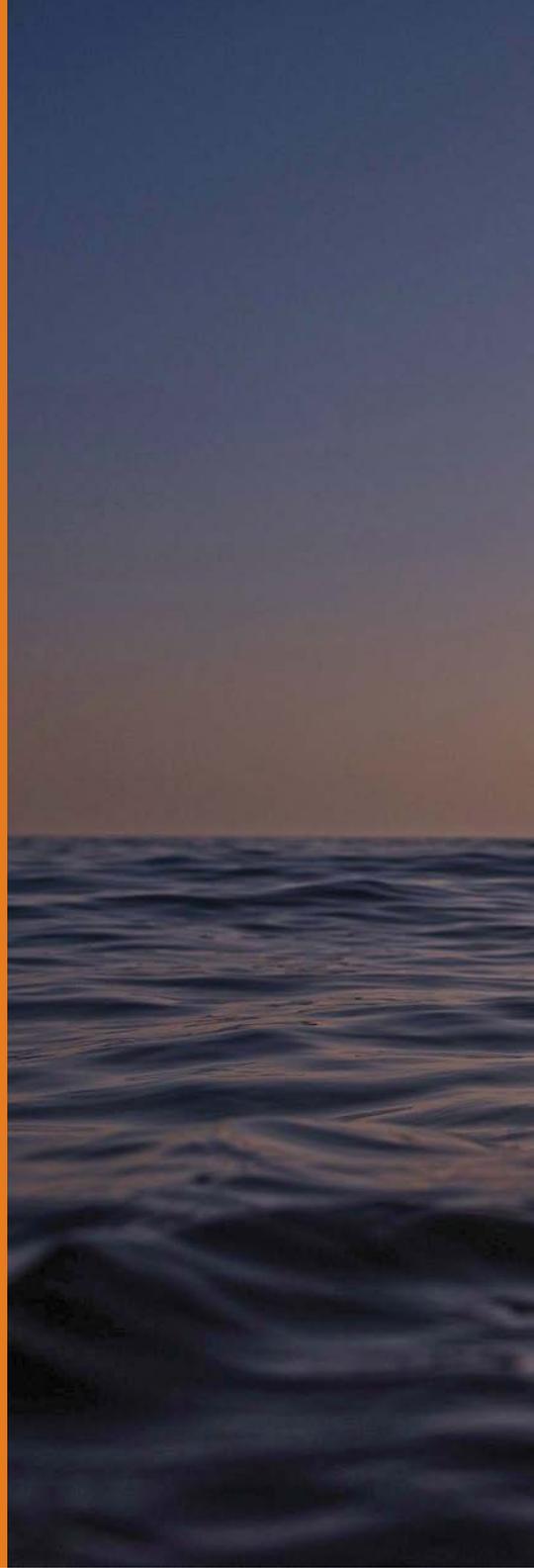
At Aldee Water, We provide service like,  
**Design to O&M,**  
**Water Audit,**  
**Revamping & enhancing of existing plants,**  
**Consultations.**

We also supply  
**Consumables, Chemicals and Spares.**



Design  
Engineering  
Construction  
Operation &  
Maintenance

[ There is enough  
Water for everyone,  
If we Care & Treat. ]



**Aldee Water Pvt. Ltd.**

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