



# ARYAN ENVIRO SOLUTIONS

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## Company Profile

Since 2004 ARYAN ENVIRO SOLUTIONS offers the most comprehensive line of customized solutions to address an extensive range of water and waste management solutions. Aryan Enviro Solutions is a specialized technology company in Water, Wastewater and Effluent Treatment Plants. We offer a unique range of highly compact & modular products.

Our staff includes talented scientists, engineers, technologists and seasoned managers. Our capabilities range from evaluating environmental water problems, designing water treatment solutions and manufacturing wastewater systems, to commissioning water and wastewater equipment in the field.

The Aryan range is suitable for residential and commercial buildings, hospitality and industrial sectors. Our products are installed with minimal on-site civil / fabrication work and offer significant reduction in space and operating costs compared to conventional solutions.

Aryan Enviro Solutions services effectiveness depends as much on our local roots as our technological knowledge and expertise. Our company is organized to keep us close to our public authority and industrial clients.

### Our Mission & Objective

Our strategy is straightforward. We simply aim to be a Vital Partner to our customers. By leveraging our group strength and sector experience, we provide them with the Essential Quality Solutions that they need to improve their quality of life or carry out their businesses better.

Our main objective was to develop and manufacture systems that would help provide quality results, cost savings with minimum foot prints, Modular designs & low maintenance cost for our client's day to day operations.

### Key Business Areas

#### Featured Solutions /Technologies

#### Moving Bed Bio Reactor(MBBR):

Biological Aerobic Suspended attached growth continuous process based wastewater treatment Solution

ARYAN MBBR is a state of the art Sewage & Effluent treatment plant designed on the principle of attached growth biological system. It is a combination of biodegradation and tube settler based separation process on which the microorganism responsible are supposed on special floating media having high specific surface area that are kept in moving phase by the upward air & liquid flow.



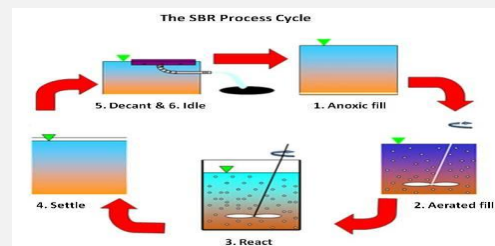
### Features

- Can handle variation in organic loading & can overcome toxic loads
- Existing activated sludge based wastewater treatment plant can be upgraded to handle more hydraulic and organic loading without any modification in civil structures or minimal alterations

### Sequential Batch Reactor (SBR)

#### Biological Aerobic batch reactor process based Wastewater Treatment Solution

ARYAN SBR is a compact, single tank reactor system achieving complete treatment of the sewage flowing through the system within a limited footprint at lowest possible running cost with treated water of reuse quality.



### Features

- Nutrient removal capability.
- Microprocessor based interface control technology for process adjustments to increases or decreases the treatment capacities of plant for reduced or extended periods of flow.
- Can be easily integrated with tertiary treatment units to produce treated water of reuse quality.
- No settler/Clarifications.

### Physico Chemical Treatment

#### Physico Chemical based Treatment Solution

Aryan physico chemical based treatment is a combination of chemical reaction followed by precipitation, sedimentation, filtration and adsorption phenomenon. This is engineered to meet the needs of industrial effluent treatment which are difficult to treat biologically.



### Features

- Quick and easy deployment for Industrial Effluent Treatment
- Decentralized applicability, modular and scalable
- Very low power requirements (0.5 kwh/cubm)
- Customized to treat industrial effluent in Power, Oil & Gas, Pharma, and Textile & Electroplating Sectors

### **SUBMERGED AEROBIC FIXED FILM REACTOR (SAFF)**

#### **SAFF incorporate Biological attached Growth Process**

Aryan SAFF reactor or submerged aerobic fixed film reactors incorporates the advantages of fixed film technologies and combine with them the fine bubble diffused aeration techniques, to get highly efficient biological treatment unit. Reactor uses a support media that remains Fixed and submerged in the water. This Media allows the growth of biomass on its surface and this enhanced bacterial activity allows the bio-degradation of the organic matters ARYAN SAFF is Ideal for Small scale STP below 400 KLD and for varying organic and hydraulic loadings.



### Features

- Required Less foot prints
- More shock loads as the bacteria remain attach on the surface of PVC sheet
- Very high efficiency up to 98 %
- Stable as there is no moving / mechanical part in the aeration tank

### **Filters**

#### **Pressure Sand Filters and Activated Carbon Filters**

Aryan filtration systems are added on tertiary units specifically designed for waste water application. These units can be integrated with existing treatment plant to improve the quality of treated water for reuse applications. Functional applications include removal of Suspended particulate matter, Odor, Color and Chlorine using Sand, Anthracite and Activated Carbon.



### Applications

- Pretreatment of RO/Desalination
- Drinking water and process water treatment
- Side stream filtration of cooling tower water
- Removal of dissolved and organic matter

### Range

- Standard plants from 1 cum/hr to 100cum/hr
- Customized plants for larger capacities

### Ion Exchangers

#### Softner and Demineralizers

Aryan Softeners and Demineralizers provide an efficient hardness removal system for industrial and wastewater treatment applications. This system comes in both up-flow and down flow modes for service and regeneration process. Regeneration of exhausted resin can be done either manually or by automated systems.



### Applications

- Boilers, Cooling Towers and other process water application in industries
- Utilities water, Laundry and drinking water in residential buildings and industrial applications
- Softening applications in cooling towers

### Range

Flow Capacity from 1000-10000 liters per hour

Larger Capacities (>50 cum/hr) can also be customized

### Reverse Osmosis

## Industrial RO



Aryan RO technology is a robust and reliable microprocessor controller based unit which can be used for eliminating microbiological impurities like bacteria and viruses, dissolved salts, chemicals, pesticides & suspended solids rendering the treated water available for various industrial reuse process.

## Portable RO



Aryan Portable RO is a compact system to generate clean water from water sources like lakes, ponds, rivers, underground water with high TDS and water canals. The simple construction of the plant ensures easy operation and requires minimal maintenance and limited supervision.

## Air Pollution Control Device

### Wet Scrubber

Aryan Wet scrubbers are manufactured in various options of material viz Mild Steel, Stainless Steel and FRP. It is a vertical vessel with a number spray zones. At the bottom of the tower is a liquid reservoir, from which recycle pump supply liquid to spray zones.



### Features

- Very High absorption capacity
- Low pressure drop
- No scaling or build up of solids
- No nozzle plugging
- Can accommodates high gas temperatures
- Tolerates high dust loadings

- High mist elimination.

#### Services:

##### Environmental Consultancy

Consent to Operate

Consent to Establish

Preparing Environmental Statements

Environmental Impact Studies

Annual Maintenance Contracts for Sewage Treatment Plants/Effluent Treatment Plants

Wholesale STP/ETP Chemical Suppliers

#### Applications

##### Representative List of Clients



##### We Serve A Variety of Clients...

- Residential Communities
- Family, Multi-Family, Active Adult, Retirement Homes
- Municipal and Local Governments
- Schools
- Industrial and Business
- Agricultural and Food Processing