

**BIOAGE**



**Best MSME of the  
YEAR 2021-22**



**BIOPROCESS SOLUTIONS PROVIDER**

# ABOUT US

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Bio age is an ISO 9001:2015 certified company. It was founded in 2004 to localize the manufacturing of bioprocess equipment's.

We manufacture and serve Fermenters/ Bioreactors , Ultrapure water purification system , Solid state fermenters, Tangential / Cross Flow Filtration, Microfiltration.

Over the years Bioage has made a mark in the sector by developing quality products, committed post sales service and contribution in R&D. Our clients are spread across geographies and sectors.

# CAPABILITIES

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**DESIGN**



**MANUFACTURING**



**AUTOMATION**



**SERVICES**



**R&D**



**TRAINING**

# OUR OFFERINGS

## UPSTREAM

### Fermenter / Bioreactor

- ◆ Lab Scale
- ◆ Pilot Scale
- ◆ Industry Scal
- ◆ Photobioreactor.
- ◆ Glass & In-Situ Fermenter
- ◆ Cell culture fermenter.

## DOWNSTREAM

- ◆ TFF (Tangent flow filtration)
- ◆ Microfilter Septum
- ◆ CIP (Clean in place)
- ◆ SIP (Sterilization in place)

## TURNKEY SOLUTIONS

- ◆ Biotech
- ◆ Pharma
- ◆ Probiotics
- ◆ Biofuel
- ◆ Bio-Fertilizer

## WATER SYSTEM

- ◆ Analytica
- ◆ Ultra Plus
- ◆ Direct Ultra & Dura-Q
- ◆ LAB Pure & LAB-Q

## VESSELS

- ◆ Mixing vessels
- ◆ Ribbon mixer
- ◆ Receiver tanks
- ◆ Customised Vessels

## ACCESSORIES

- ◆ Peristaltic Pumps
- ◆ Sensors
- ◆ Electronics Cards
- ◆ Ports and Housing
- ◆ Valves/Filters/impeller

## SERVICES

- ◆ Bio-Process Engineering
- ◆ Customized Design
- ◆ Automation
- ◆ Plant Layout
- ◆ Quality with Validation
- ◆ AMC
- ◆ Process Training
- ◆ Training Certificates

## UTILITIES

- ◆ Chiller
- ◆ Boiler
- ◆ Compressor

# PHOTO GALLERY



**Lab Fermenter**



**Pilot Fermenter**



**Water System**



**Industrial Fermenter**



**Tangential Flow Filtration**

## ANALYTICA (TYPE II GRADE WATER)

**Three Stage pre-filtration setup of 10 $\mu$ /5 $\mu$ /1 $\mu$ /0.5 $\mu$ /iron filter, activated carbon to protect and enhance the life of the precious cartridges.**

- ◆ Low initial investment while buying the system.
- ◆ Most economical ie cost of per liter water produced is less as compared to glass distillation or water purification systems available in the market.
- ◆ High flux thin film composite (TFC) membranes. polyamide RO.
- ◆ EDI's continuous self regeneration process improves water quality.

## ULTRA PLUS (TYPE I GRADE WATER)

- ◆ Integrated table top/wall mounted sleek lab water system.
- ◆ Most economical ultra pure water cost per liter as compared to any water purification system available in the market in this category.
- ◆ Three stage pre-filtration of 10 $\mu$ /5 $\mu$ /1 $\mu$ /0.5 $\mu$ , Flowrate:50LPH.
- ◆ Feed Water: RO/DI water.

## DIRECT ULTRA / DURA-Q

**The USP of Direct Ultra (Type -I & Type III)**

- ◆ High recovery upto 60% of water with Polyamide T.F.C. membrane double RO Pass
- ◆ Type-I & Type III water in a single integrated table top/wall mounted sleek system.
- ◆ High quality T.F.C.Polyamide RO membrane >200 Dalton cutoff, Ion Rejection: >99%

## THE USP OF DURA-Q CLASSIC AND DURA-Q PREMIUM

- ◆ Type-I,Type II,Type-III water in a single integrated table top/wall mounted sleek unit.
- ◆ High recovery upto 60% of water with polyamide T.F.C.membrane double RO Pass.

## LAB PURE/LABQ

**Type-III/II Grade Water**

- ◆ Single stage pre-filtration setup of 10 $\mu$ /5 $\mu$ /1 $\mu$  to protect and enhance the life of the RO cartridges.
- ◆ Saves Potable water from tap up to 100L/Hr vs Distillation units.
- ◆ High Recovery Rate > 30 % of Double RO Pass.
- ◆ No Scaling Problem as Compared to Distillation saves water as compared to conventional distillation Method. Rapid and Simple disinfection.

## BIO-SPIN P SERIES (PILOT SCALE)

- ◆ Bio-Spin P Fermenters come with whole SS vessel with Sight glass and light Glass provision.
- ◆ They are Microcontroller/ PLC based systems with 5.7"/7"/10" graphic display in TFT/ HMI respectively.

## BIO-SPIN L SERIES (LAB SCALE)

- ◆ Bio-Spin L Fermenters incorporate round bottom/ Double walled Glass Vessel/ whole glass vessels with digital controlling of pH/ temperature/agitation and aeration etc.
- ◆ They are Microcontroller/ PLC based systems with 5.7"/7"/10" graphic display in TFT/ HMI respectively.
- ◆ Interchangeable growth vessels of 2,3,5 and 7 Liters working volumes with Top driven magnetic drive to avoid the possible contamination from mechanical seals. Fermenter vessels with SS 316L are also available in full SS vessel with glass window. Optionally top driven direct coupled with Mechanical seal are also available.



## Parallel Fully-Automatic in-Situ fermenters of capacity 500Ltrs with 50Ltrs seed fermenter.

- ◆ Automatic Temperature control
- ◆ Automatic Agitation control
- ◆ Automatic Pressure control
- ◆ Automatic pH control
- ◆ Automatic DO control
- ◆ Automatic Feed control

# OTHER SERVICES

**Summer Training, Industrial Training,  
Project/Dissertation Work**  
On Biotechnology, Enzymology  
Fermentation, Microbiology &  
Molecular Biology

For  
**M.Sc., B.Sc., (Hons), B.E., B.Tech.  
(Biotechnology) Student & Industrial  
Professionals**



## PARTIAL LIST OF CLIENTS



And Many more...

# BIOAGE

## OUR PARTNERS

**SIEMENS**  
Ingenuity for life

**RENU**  
ELECTRONICS PVT. LTD.

**WILO**  
Pumpen Intelligenz.

**AVCON**

**SMC**

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**WIKA**

**Leak-Proof Engineering**

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**Broadley James**

**GRUNDFOS**

**DELTA**

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