



GHPSBIO

Engineering Excellence, Evolving Biotech

Innovation is at the heart of every break through we create. At GHPS Bio Pharma Technologies Pvt. Ltd., we merge knowledge, innovation, and precision to engineer perfection. With a relentless focus on quality and technology, we continue to evolve the future of fermenters, bioreactors, and filtration systems.



PERFECTION. INNOVATION. EVOLUTION

**GHPS Bio Pharma Technologies Pvt. Ltd.
specializes in Manufacturing, Design,
Consultation, Automation and Services for the
Biotech and BioPharma Industry.**

**We deliver Precision-Engineered Solutions
across Fermenters, Bioreactors,
Photobioreactors, Reactors, Automation and
Advanced Filtration Systems, including Micro,
Ultra, Nano and TFF Technologies.**

**Our Expertise ensures that every system is
optimized for Efficiency, Reliability and
Seamless Integration into your Production
Process.**

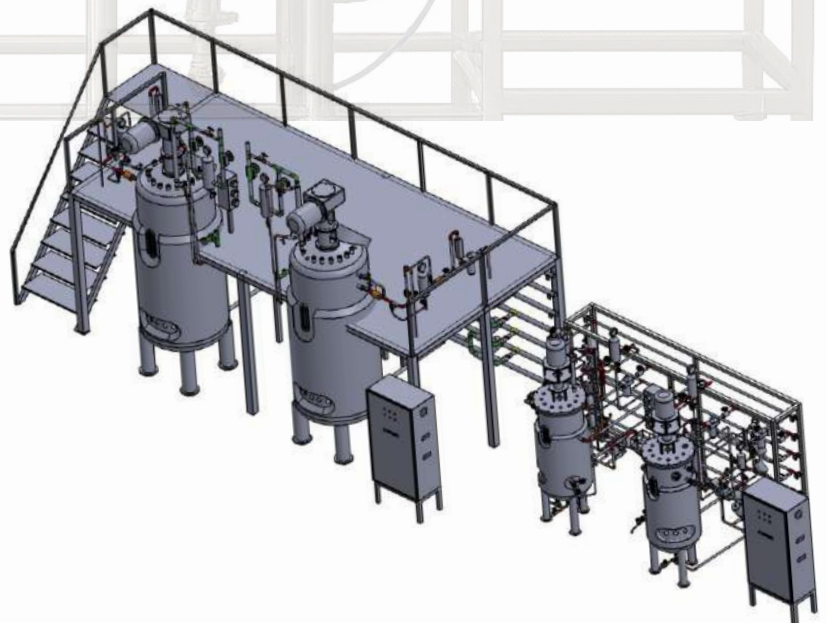
Why Us

With over 20 years of hands-on experience in Bioreactor and Fermentation technology, GHPS Bio Pharma Technologies Pvt. Ltd. provides expert consultation, plant setup, and automation solutions. We specialize in microbial, fungal, and cell culture processes, sterile operations, and downstream processing.

We design, manufacture, and deliver high-performance, customized bioprocess equipment for green, red, and white biotechnology, as well as pharmaceutical, food, and renewable energy applications.

We serve cutting-edge fields including cell culture, stem cells, synthetic meat, algae, biopolymers, and biofuels, advancing both R&D and Production. Based in Mohali, our systems are engineered to meet global GLP, GMP, and FDA standards, with fully traceable QA/QC processes.

Built to meet rigorous quality standards, all products undergo QA/QC, pass audits, and are validation-ready to ensure consistency and compliance.

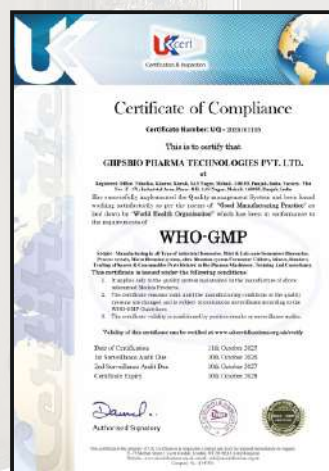


GLOBAL CERTIFICATION & COMPLIANCE

GHPS Bio Pharma Technologies Pvt. Ltd. adheres to stringent international standards to ensure the highest quality and safety across all products and services. Our systems are designed, manufactured, and validated in compliance with

- IEC 60601-1
- ISO 9001:2015
- ISO 13485:2016
- ISO 14001:2015
- WHO-GMP
- CE standards

Reflecting our commitment to global quality, regulatory compliance, and operational excellence.



PRECISION EQUIPMENT FOR EVERY BIOPROCESS

Our Product Range:

We provides a comprehensive suite of high- performance bioprocess equipment and consultation services, designed for reliability, efficiency, and seamless inte-gration. Our solutions support diverse applications across biotechnology, pharmaceuticals, food, and renew-able energy.

Key Offerings Include:

- Fermenters & Bioreactors Microbial, fungal, and cell culture systems
- Photobioreactors & Reactor Customized for R&D and production
- Advanced Filtration Systems Micro, Ultra, Nano, and TFF technologies
- Automation & Process Solutions Seamless integration and control
- Consultation Services Expert guidance from concept to commissioning



AUTOCLAVABLE GLASS FERMENTERS/BIOREACTORS

Our Autoclavable Glass Fermenters and Bioreactors are built for precision, reliability, and flexibility in microbial, fungal, and cell-culture applications.

Made from high-quality borosilicate glass, they offer clear process visibility, easy cleaning, and full sterility. Available in 1 L to 12 L, these systems are fully autoclavable and can be customized with sensors, probes, and automation options. Equipped with advanced control systems and 21 CFR Part 11-compliant SCADA, they are offered in Basic, Semi-Automatic, and Fully Automatic models.

Ideal for R&D and pilot-scale setups, they deliver robust performance and seamless integration into any laboratory environment.



IN PLACE STERILIZABLE FERMENTERS/BIOREACTORS:

The Insitu Series represents a state-of-the-art range of in-situ sterilizable fermenters and bioreactors, designed for laboratory, pilot, and large-scale industrial applications. Available in standalone, twin, and parallel configurations, this series offers the flexibility required to meet diverse experimental and production needs.

High-Quality Construction: Manufactured from SS316L stainless steel, the Insitu Series provides a non-corrosive, non-toxic, and sterile environment, ensuring optimal conditions for microbial, fungal, cell culture, stem cells, synthetic meat, biosimilars, bioethanol, and other bioprocess applications.

Scalable Capacities: Covering a volume range from 5L to 50KL, the series supports lab, pilot, and industrial-scale bioprocessing. For volumes 50L and above, Cleaning-In-Place (CIP) systems are integrated for hygiene, efficiency, and regulatory compliance.

Automation & Regulatory Compliance: Available in Basic, Semi-Automatic, and Fully Automatic modes, the Insitu Series enables precise process control while ensuring 21 CFR Part 11 compliance for data integrity and traceability. Combining robust engineering, advanced automation, and regulatory adherence, the Insitu Series delivers reliable, reproducible results, empowering researchers and manufacturers to drive innovation across a wide spectrum of bioprocesses,



SOLID STATE FERMENTER:

Our Solid State Fermenters bring innovation and precision to SSF technology, enabling efficient cultivation of microorganisms on low-moisture solid substrates for high-productivity processing.

Built from SS316L stainless steel, these systems ensure durability, sterility, and corrosion resistance. Available from 10 L to 10 KL, we also offer fully customized designs to meet specific process requirements.

To suit diverse operations, SSF units come in Basic, Semi-Automatic, and Fully Automatic automation modes.

Key Benefits:

- Higher Productivity – Optimized for solid substrate fermentation.
- Cost-Effective – Lower water and energy consumption.
- Eco-Friendly – Minimal effluent and reduced environmental impact.
- Versatile Applications – Enzymes, biopharma, agriculture, and industrial biotech.
- Custom-Built – Tailored to process needs and scale-up demands.



PHOTOBIOREACTORS:

GHPS Bio offers advanced photobioreactors for controlled cultivation of photosynthetic microorganisms. These systems ensure precise control of light, temperature, circulation, pH, and DO for consistent, high-quality growth. Built under GMP and ASME BPE-2019 standards using borosilicate glass and SS316L stainless steel, they provide durability, sterility, and reliable performance. Capacities range from 2 L to 100 L, with full customization and automation options.

Key Benefits:

- Optimized Growth with controlled light and environment
- Wide Applications across nutraceuticals, pigments, biofuels & biomass
- High-Quality Materials for long service life
- Versatile for research and pilot-scale studies
- Customizable to specific project needs



Advanced Filtration Systems - Micro, Ultra, Nano & TFF Solutions:

We design and manufacture high-performance filtration systems engineered for precise separation, purification, and sterilization of process fluids across the bioprocessing spectrum. Our Micro, Ultrafiltration, Nanofiltration, and Tangential Flow Filtration (TFF) systems are built to ensure product purity, process reliability, and regulatory compliance. Constructed from premium SS316L stainless steel and high-quality membrane materials, each system is manufactured under Good Manufacturing Practices (GMP) and in alignment with ASME BPE standards, ensuring durability, contamination control, and long service life. Available in laboratory, pilot, and industrial-scale configurations, our filtration systems are custom-engineered to meet specific process needs in biopharma, nutraceutical, food & beverage, biofuels, and industrial biotechnology sectors.

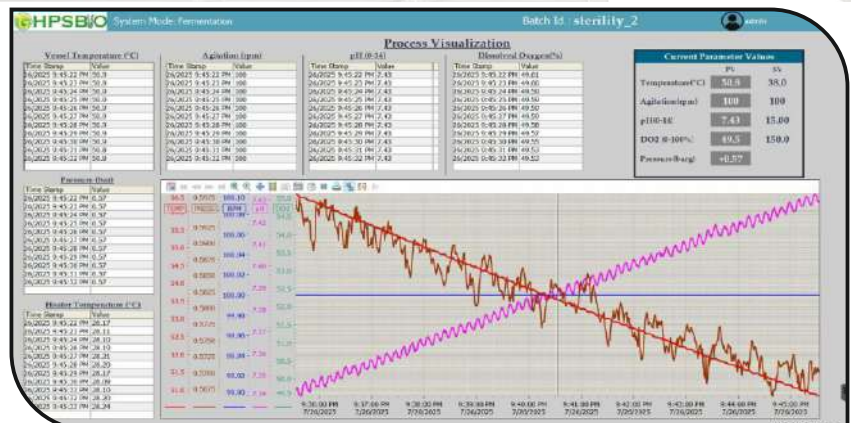
Key Benefits of Filtration Systems:

- **High Purity & Sterility** Effective removal of microorganisms, particulates, and impurities for clean, validated processes
- **Versatile Applications** Suitable for media sterilization, protein concentration, product clarification, and buffer exchange
- **Energy & Cost Efficiency** Optimized membrane design ensures lower energy use and reduced operating costs
- **Scalable & Flexible** Available in lab, pilot, and production-scale capacities with custom automation and control options.
- **Automation & Regulatory Compliance**
Offered in Basic, Semi-Automatic, and Fully Automatic modes, compliant with FDA 21 CFR Part 11, GMP, and ASME BPE standards.



SCADA Software – Intelligent Control for Bioprocess Excellence

- Our SCADA platform delivers seamless monitoring, control, and compliance for fermentation and allied bioprocess operations.
- Real-Time Oversight – Continuously track pH, dissolved oxygen, temperature, agitation speed, and pressure. Make precise adjustments via a user-friendly HMI.
- Smart Alarms – Configurable alarms provide instant notifications of deviations, enabling timely corrective actions.
- Complete Traceability – Secure data logging with full audit trails records when and by whom parameters are changed, ensuring accountability.
- Regulatory Compliance – Fully compatible with 21 CFR Part 11, supporting FDA requirements for electronic records and signatures.
- Automated Efficiency – Pre-programmed sequences for SIP, CIP, and fermentation cycles deliver consistent, repeatable results.
- Scalable & Integrated – Suitable for lab-scale through production-scale operations, with seamless integration to upstream and downstream systems.
- Controlled Access – User-defined logins and role-based permissions safeguard system integrity. With robust security, intelligent automation, and regulatory readiness, our SCADA software ensures every batch meets the highest standards—consistently, efficiently, and compliantly



UTILITIES:

Successful fermenter and bioreactor performance relies not only on the equipment itself but also on the availability of essential supporting utilities. These utilities ensure precise control over temperature, pressure, sterility, and overall operational stability.



**STEAM
GENERATOR**



**AIR
COMPRESSOR**



**COOLING
TOWER**



CHILLER



RO PLANT

AFTER-SALES SUPPORT & SERVICES

At GHPS Bio, our commitment extends beyond delivery. We provide comprehensive after-sales support, ensuring your systems operate at peak efficiency throughout their lifecycle.

Our Services Include:

- **Installation & Commissioning** - Seamless setup for immediate productivity.
- **Training & Technical Support** Empowering your team to maximize performance.
- **Maintenance & Upgrades**- Preventive and corrective services to ensure longevity.
- **Process Optimization** Expert guidance for continuous improvement
- **Remote Monitoring & Assistance** Timely support for uninterrupted operations
- **Spares & Consumables**- Timely availability ensures seamless and uninterrupted operation.

With a customer-focused approach, we partner closely with clients to ensure reliable, efficient, and compliant operations, from start-up to scaling production



PRODUCTS GALLERY:



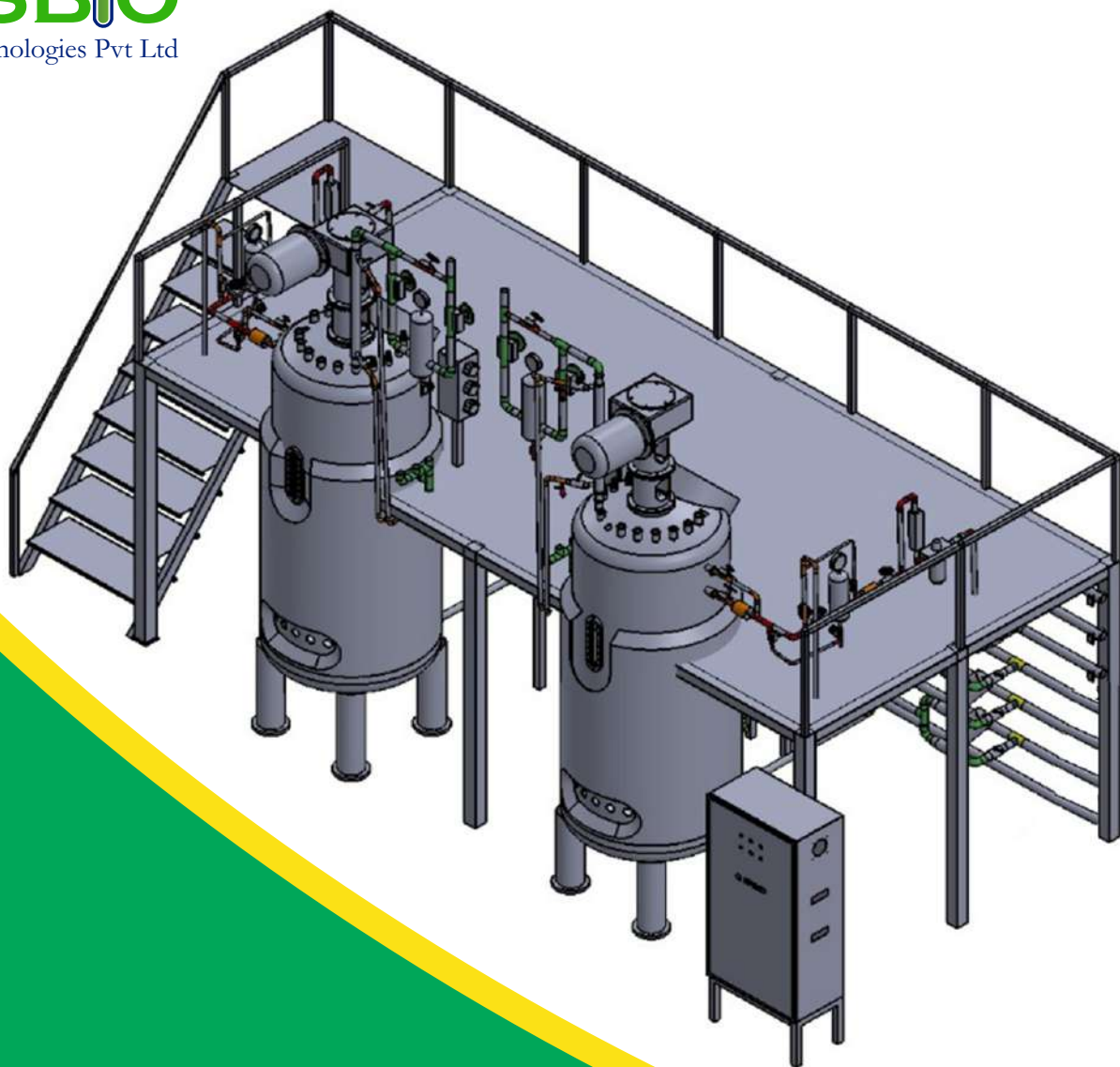
GHPS Bio

OUR SERVICES

Our commitment extends far beyond equipment delivery. We provide end-to-end services to ensure your bioprocess systems perform reliably and efficiently throughout their lifecycle.

- Installation & Commissioning
- Training & Skill Development
- AMC/CMC
- Retrofitting & Upgrades
- Relocation Services
- Warranty & Extended Coverage
- Spare Parts & Consumables
- Consultancy & Process Optimization
- Customer Support





Connect With Us:

GHPS Bio Pharma Technologies Pvt. Ltd.

Innovating Bioprocess Solutions for a Sustainable Future

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