

REACH US



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INGENESYS° ENABLE
ENGINEER
EFFECT

A venture of  D. D. ENTERPRISES



Ingenesys operates on the core values of innovation and engineering excellence.

With this simple conviction we lead the way in providing optimized solutions for the high purity requirements of the Biotech, Pharmaceutical and FMCG industries.

We offer a measurable advantage to our customers through our detail to engineering, proven manufacturing processes for consistent high quality and regulatory compliant validation support for complete lines of Automated Processing Equipment and Systems.



ABOUT US

[GENESIS]

MESSAGE FROM THE MD

We were founded over 30 years ago and have since evolved into providing complex customised solutions.

"As an innovative and customer-sensitive technology group, Ingenesys will strive to create long-lasting value for customers and shareholders alike and translate our growth into high profitability for all our stakeholders.

The background and experience of the Ingenesys team provides you with the confidence that your requirements are clearly understood and that the services are executed properly and expeditiously.

We at Ingenesys, believe that the excellence and dedication of our employees will provide the competitive advantage to your organization as they continue to do at ours."

Our areas of excellence enable us to provide customer focused solutions for equipment and systems in the following areas:

- Project management
- Process engineering (P&ID, PFD's)
- Mechanical design (vessels and piping - 3D isometric drawings)
- G.A. and Fabrication drawings generation
- 3D layout using the latest tools
- Vessel / Skid manufacturing
- Piping manufacturing
- Electrical and control system design, programming
- Instrumentation, electrical wiring
- Pneumatic piping and automation
- Complete FAT with live utilities at our dedicated FAT center
- Installation and Commissioning
- SAT in accordance with customer requirements
- After-sales services
- Qualification support (cGMP, GAMP, CFR21 part11)

OUR VISION

To be the acknowledged global leader and preferred partner for our customers

OUR MISSION



We bring inspiration and ingenuity to everything we engineer. We aim to foster the success of our customers through our world-class processing systems and equipments.

We are committed to providing the highest value to our customers and employees by being as future-oriented as the industry in which we innovate.

OUR DIFFERENTIATORS

- Exceptional customer focus
- Industry expertise and astute Project management skills
- Adherence to client process requirements and specifications while providing an optimized and cost effective solution
- Competence in matching customer expectations through the life cycle of the Project
- State-of-the-art design and manufacturing technology and equipments
- Space conserving and easy to maintain Designs
- Designs in strict compliance with ASME , ASME BPE and GAMP5 specifications
- Quality standardization and documentation
- Eco-friendly value engineering
- Timely delivery



ENABLE. ENGINEER. EFFECT.

Enabling Excellence
Engineering Value
Effecting Change

OUR PHILOSOPHY [INSPIRATION]

Enable. Engineer. Effect.

The Biotechnology Industry has become essential to the global economy. Modern biotechnology provides breakthrough products and technologies to combat debilitating, previously untreatable and rare diseases by using cleaner and more efficient industrial manufacturing processes.

The Indian biotechnology sector is one of the fastest growing knowledge-based sectors in India and is expected to play a key role in shaping India's rapidly developing economy.

Ingenesys aims to enhance engineering, knowledge, skills, and cost-effectiveness to emerge as a global key player in the sector. By leveraging our specialized core competence in bioprocess engineering,

apart from the other industries, Ingenesys is poised to play a pivotal role in enabling excellence, engineering value and effecting change.

As a consultant, we specialize in the design, delivery and operation of facilities providing turnkey solutions that are reliable, cost-effective and in compliance of prevalent regulatory requirements.

As a learning culture, we enable experiential learning to enhance technical and operational skills.

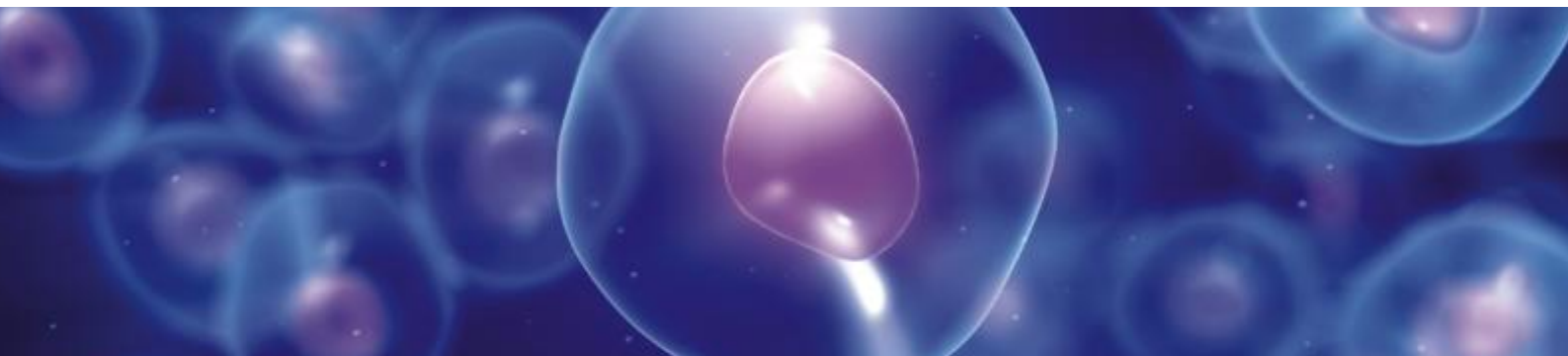
As an incubation ground, we focus on process refinement and optimization.

Driven by innovation and research, we are confident of posting strong growth and profitability while impacting positive social and environmental changes via bioprocess engineering.

OUR VALUES [GENES]

At Ingenesys, engineering inspires.

Coupled with a diverse human capital that is inclusive and encourages new perspectives and ideas for tomorrow, we are proud to consistently meet the exacting requirements of our worldwide customers.



Driven by innovation and research, we are confident of posting strong growth and profitability while impacting positive social changes via bio-process engineering.

[GENRES]



CLIENTELE >>

Our company has vast experience and an expertise in the manufacture of system for a large number of products

- Recombinant genetic products for therapeutic purposes
- Antibiotics and vitamins
- Growth hormones and Enzymes
- Blood products
- Diagnostics
- Immunobiology (Monoclonal Antibody, Interleukins)
- Vaccines

Some of the prominent areas catered to by Ingenesys include fermentation, media and buffer preparation, mixing and blending applications, harvesting, collection and holding, cleaning in place, sterilisation in place, detoxification and pressure vessels.

Our clientele comes from diverse industries spanning across various geographies >>

- Biotech
- Pharmaceutical
- FMCG
- Food and Beverage
- Research and Educational Institutes
- Institutes of the public sector

[SYSTEMS ANALYSIS]



SERVICES AND OFFERINGS >>

Integrated and Focused Strategies

Our exceptionally personalized engineering and consulting operations are built to support the specific product development strategies generated with our partners and clients.

- **Product/Service and Portfolio Assessment:**
At Ingenesys, innovative design-build-validate solutions enable comprehensive assessment of customer requirements and expectations including product potential and positioning, competitiveness, and project prioritization.
- **Product/Service Development Strategy:**
We enable efficient development strategies and design streamlined clinical development plans.
- **Product/Service Safety Monitoring:**
With a strong emphasis on product safety , proper tools and methods are applied to ensure accurate safety profiling.
- **Regulatory Consultancy:**
Applying a proactive and collaborative approach with regulatory agencies, strategies are put together early in development and constantly re-evaluated over the product/service life cycle.





PRODUCT LINE >>

Diverse Products across VARIOUS Verticals

Our strong commitment to focus on client needs and improved performance has enabled us to offer a vast and diversified product range of equipment.

We are very conscious of the trying needs of our customers to maintain product purity and validated manufacturing processes and continue to invest a significant amount of our engineering expertise in the design and manufacture of our equipment which include :

Media and Buffer Preparation systems

Blending and Mixing V essels

CIP Systems

SIP Systems

Process Vessels – Special Designs / Applications

Autoclavable Pressure V essels & Accessories

Bio-kill / Inactivation Skids

PROCESS SOLUTIONS

We believe efficient project management is the key to success

The manufacture of drugs and active substances requires very high standards of quality to be maintained with respect to product purity and validated manufacturing processes. We are aware of our responsibility and our work is guided by the standards of the international pharmaceutical industry such as the cGMP guidelines and the FDA requirements.

Our expertise in the sector arises out of the experience of our engineers and is reflected in their imaginativeness, creativity and strength in realisation. It provides the guarantee of successful project management. On the basis of tried and tested standards, our project teams devise individual project documentation specific to your individual requirements and deliver the projects on time, within the budget and to the agreed level of quality.

Basic Engineering

The main features of the plant, plant layout, functional description, technical specifications, time schedule and documentation are mutually defined during the basic engineering.

Detailed Engineering

The Basic engineering activities are continued with detailed engineering. This includes the draft of the P&IDs, layout plan, piping plan, detailed time and production schedules, draft of 3D drawings, material purchase of the highest quality, qualification as well as documentation.

Our designers use the latest Engineering tools like ACAD and Solid Works to engineer and model the systems in accordance with Customer requirements and specifications. The 3D models are used for actual verification of compliance to various standards viz. ASME BPE etc.



Detailed Manufacturing drawings and Isometrics are converted to high quality equipments and skids at our state-of-the-art manufacturing facilities. Our team of qualified and experienced manufacturing personnel ensure that all the details as specified in the drawings are complied with through various stages of manufacturing.

Our quality control department clears the job as defined in the customer agreed QAP / EQP. Our Production and Quality control managers and supervisors are kept up-to-date with regular training sessions in the requirements of ASME BPE.

Our systematic qualification process spans the life cycle of each project, assuring the quality of the systems, and its conformance with the URS.

We document different design steps in basic and detail engineering in order to offer complete traceability of the production process. This is followed by documentation of the material and parts we buy, the welding documentation by boroscope and the documentation of qualification.

The project-specific quality plan (EQP) ensures that the design, fabrication, installation, testing, and commissioning is carried out in accordance with all relevant standards and specifications. The high standard of drawings and documentation generated during the project builds up to deliver the highest standards of documentation hand-over pack allowing for the efficient and timely validation of our systems.

We offer our documentation in Standard format and if required to customised preferences.

Our documentations have been witnessed by official institutions like the FDA.



Our Project teams work closely with you in coordination with various functional heads at Ingenesys to ensure smooth and successful completion of your Project.

Bottlenecks are identified early in the project and are solved through a well calculated approach with a minimum amount of time, effort and money. The complete project is managed efficiently right from the initial URS development to after-sales service with strict compliance to acceptable quality standards.



Our Team of Microbiologists and Engineers work closely with you by supporting you with the desired technical information for initial URS development. Process Flow diagrams and P & ID's are developed by our Process team in strict adherence to the Final URS.

We are here to answer all your queries right from the design of the pipeline system, the size and shape of the vessel to the definition of the scope of documentation.



Our products and services comply with quality standards that satisfy customers, customize the process plant as well as the software and adhere to the respective provisions and regulations, thus doing much more than just automation.

The Automation process is translated based on the User Requirement Specifications (URS). The basic specifications of the hardware and software are formulated and the documents for FDA and GAMP approval are translated.

At the end of this, the clients are aware of what they measure and control as well as why, when and how it is going to be documented and visualized.

We plan the detailed functional specification (FS), the hardware design specifications (HDS), the installation plans, parts lists and the wiring diagrams. Furthermore, I/O sheets, Valve Matrix, parameter lists and control panels get their final layout from us meeting the requisite needs.



After completion of each Project we conduct training of the Customers Personnel during FAT / SAT and a Formal training / reinforcement session at the customer's plant. This ensures that the maintenance staff is also well versed with the system, its components and the automation.



WAY FORWARD

India is among the top 12 global biotech hot spots and the third largest in Asia Pacific.

Continuous striving to enhance the well-being of humankind is leading the global healthcare industry to make rapid strides. India's biotech sector is one of the fastest growing knowledge-based sectors.

Ingenesys looks ahead to being a major contributor in the global biotechnology landscape by addressing the challenges and opportunities needed to strengthen this vibrant sector.



AS A MANUFACTURER OF STERILE PROCESS PLANTS

As the biotechnology industry makes rapid strides world over, Ingenesys looks ahead to matching pace in its growth as a major partner to this vibrant industry.

A crucial factor driving our business strategies is the vision to equip the biopharmaceutical industry with the cutting-edge process technology needed for a clean, green and healthy world.

As a manufacturer of Sterile Process plants, we lead the way as a significant contributor to the global biopharmaceutical industry. With decades of experience, Ingenesys combines sound knowledge in process technology to enable our customers sustain their competitive and innovative edge.

On the basis of our comprehensive range of services, we will supply the biopharmaceutical industry with customised and cost-effective process-technology to manufacture medicines and active substances that ensure the health and well-being of humankind.

