

ENGINEERING YOUR VISION



Adroitix Engineering LLP

CONSULTING & ENGINEERING

AiX AT A GLANCE

At AiX, our team of seasoned and passionate experts transforms your ideas into reality with precision and efficiency, all while ensuring full compliance with all relevant regulations & standard engineering practices.

Our end-to-end and handholding services encompass extensive reference to the following standards and guidelines: USFDA, MHRA, EU GMP Annex 1, WHO, PIC/S, ICH, TGA, ANVISA, Health Canada, ROW / Country specific Regulations, Schedule M, ISO 13485 / CE, ISO 17025 / NABL, Good Laboratory Practices (GLP), etc.

The X Factor :

- Expertise and Experience
- Tailored Solutions
- Commitment to Quality
- Customer-Centric Approach
- Innovation and Adaptability
- Competitive Pricing
- Long-Term Partnership
- Industry Reputation



350+
YEARS

Cumulative team experience in facility design & execution.



30+
REACH

Projects designed & under execution across the globe.



18+
PORTFOLIO

Sectors of industries served as a team.



5000+
NETWORKS

Vendor networks across the globe.



8+
SOFTWARE

3D design, visualization & capability with authorized various & license.



5+
MEMBERSHIP &
ASSOCIATION

Authorized members of reputed institutional & regulatory bodies.

CORE COMPETENCE

Leading with Expertise



API



Animal house &
Laboratories



Biopharmaceuticals



Industrial, DC &
Semiconductor



Medical Devices



Nutraceuticals



Pharmaceuticals



Warehouse &
Packaging

API

Engineering Xcellence in every Molecule



Hi-Potent API



Solvent Recovery
Plants



API / Intermediates

Generic API



Hydrogenation
Reactions



Fine Chemicals



ANIMAL HOUSE & LABORATORIES

Built to Protect People, Animals and Scientific Results



Formulation
Development
Labs



QA/QC
Laboratories



Research &
Development Labs

Animal House



Agricultural Labs



Microbiology Labs



BIOPHARMACEUTICAL

From Cell to Solution - Engineered with Precision



Biosimilars
Production



Biologicals R&D &
Laboratories



Cell Culture &
Fermentation Suites

Monoclonal
Antibodies (mAbs)
Manufacturing



Human & Animal
Vaccine Facilities



Blood Plasma
Fractionation



INDUSTRIALS

From Chemicals to FMCG - Engineering Xcellence across Industries



FMCG



Industrial



Manufacturing &
Processing Units

Chemicals



Fertilizers



Cosmetics



MEDICAL DEVICES

Smart Designs for Smarter Healthcare



Syringes

Medical Measuring Devices



Euro Caps & Sterile Caps

Test Kits



Surgical Gloves



IV Sets



NUTRACEUTICALS

Designing the Backbone of Next-Gen Nutrition



Tablet & Capsules

Probiotics



Powder & Extractions

Liquid Syrup



Ready-to-Drink (RTD) Nutrition Shots

Gummies & Soft Chews



PHARMACEUTICALS

Engineering Trust into every step of Pharma Manufacturing



Ointments & Creams



Oral Liquids & Suspensions



Inhalation & Nasal Products

Tablets & Capsules



Injectables
(Vials & Ampoules)



Dry Powder
Injections



WAREHOUSING & PACKAGING

Built for Accuracy where every Unit Counts



Automated
Storage &
Retrieval Systems
(ASRS)



Throughput
Calculations,
Turnaround Time
Calculations



Warehouse
Management
Systems (WMS)

Fixed & Mobile
Racking Systems



Cold Storages



Material Handling
& Automation
Integration



SERVICES WE OFFER

Planning, Precision, Perfection - Our Commitment to You



Market Feasibility*

- Market Demand Analysis
- Competitive Analysis
- Market Trends Analysis
- Financial feasibility & Risk Assessment



Project Initiation Phase

- GAP Analysis
- Due Diligence
- Preliminary Project Planning & Cost Report
- Feasibility & Concept Study



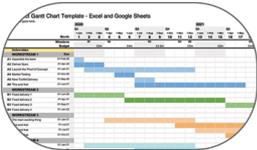
Design Engineering

- Master Planning
- Basic Engineering
- Detail Engineering
- System Interface Design



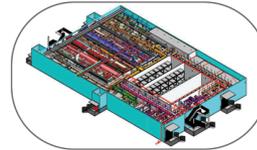
Procurement Management

- Enquiry Specifications
- Techno-Commercial Bid Analysis
- Procurement Monitoring
- Stage-Wise Inspection



Project Management

- Engineering, Project & Construction Management (EPCM)
- Project Management Consultancy (PMC)
- Project Controls, Cost Management & Project Integration



Design Visualization

- 3D Modelling – Building, Equipment & Services
- Realistic Visualization
- 3D Animation & Virtual Walkthroughs
- Virtual & Augmented Reality (VR / AR)



Commissioning, Qualification & Validation

- URS Preparation
- Risk based Quality Protocols (DQ/IQ/OQ/PQ)
- Impact Assessment
- Facility Risk Assessment



Regulatory Services

- Drug Master File (DMF) / Site Master File (SMF)
- QMS & GMP Documentation
- FSSAI / GMP / WHO Licenses
- GMP Training

INTEGRATED SOLUTIONS

Comprehensive Solutions, All Managed Under One Roof



END-TO-END SOLUTIONS

Delivering Clarity, Continuity & Complete Project Confidence.



Architecture

- Design Led SMP as per Local NBC
- Efficient Spatial Planning
- Innovative Facade Ideas
- Landscaping
- Detailed Architectural Drawings



Civil & Structural

- Site Development
- Superstructures
- Substructure
- PEB Design
- STAAD Analysis



Electrical & ELVS

- HT & LT Power Distribution
- ELVS - Systems
- Fire Detection & Alarms
- Renewable Energy Systems



HVAC

- GMP Compliant Smart Solutions
- Energy Optimised Ventilation Systems
- Building Management Systems
- Environmental Monitoring Systems



Instrumentation & Automation

- Sytem Architecture
- Plant & Warehouse Automation
- IoT
- SCADA & DCS



Mechanical, Fire & Piping

- Plumbing, Piping Networks & Fire Fighting Systems
- Clean & Black Utility Systems
- Sustainable Utility Solution

EVERY STEP COVERED. EVERY DETAIL ENGINEERED.



Process

- Process Flow Diagrams (PFD)
- Piping & Instrumentation Diagrams (P&ID)
- URS Preparation
- Heat & Mass Balance



Project Management

- Execution & Monitoring
- Risk Management
- Resource Allocation
- Cost & Time Management



3D Visualisation

- Revit (BIM)
- 3D Max
- Plant 3D
- Walkthrough Videos



Regulatory & Compliance

- Quality by Design (QBD)
- Latest cGMPs, & GLPs
- Local FDA, WHO, GMP, etc
- Commissioning, Qualification & Validation (CQV)



Procurement Management

- Vendor Selection
- Vendor Co-ordination
- Contract Management
- Technical Bid Analysis (TBA)
- Commercial Bid Analysis (CBA)

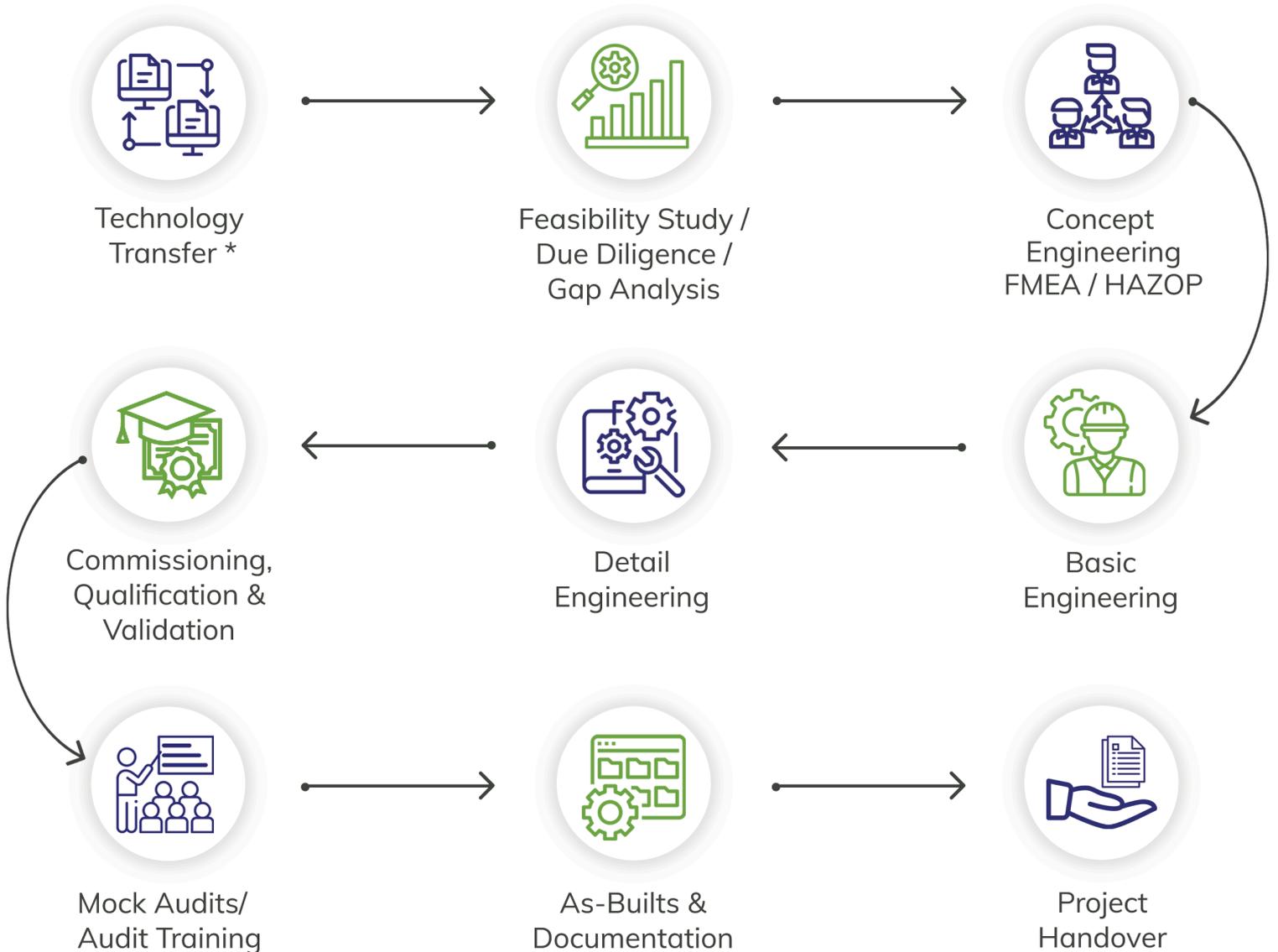


Construction Management

- Site Operations
- Co-ordinate with Contractors, Suppliers & Clients
- Schedule Monitoring
- Procurement Monitoring
- Cost Control & Quality Assurance

OUR **APPROACH**

From Concept to Completion, We've Got You Covered



* Through Associates

WHY TRUST



Expert Team & Subject Matter Experts



Quality & Sustainable Design



Strong Hold on Regulatory Compliance



Client-Centric



Digital Tools (Revit/BIM)



Cost-Efficient



Proven Client Trust & Loyalty

OUR CLIENTELE

Partnering with Leaders, Serving with Excellence



ACHIEVING **TOGETHER**

Your Vision. Our Engineering Expertise. A Partnership that Delivers Results.



Global Solutions, Personalized Service



● Project Locations

🏢 Office Location



Adroitix Engineering LLP

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Digital Brochure



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Let's Connect on 

