



Acotech Engineers

| Overview |

Acotech Engineers Pvt. Ltd. is a multi-discipline consulting engineering firm established in 1992 dedicated to providing highest quality service to each of its client with advanced and innovative customized project solutions taking into consideration, energy conservation and sustainability, as the prime factors. Acotech Engineers has been at the forefront of management, engineering & development across various sectors for the last 25 years.

| Mission |

To safely deliver world-class Quality MEP projects and Infrastructure projects on time and promoting energy conservation, environmental protection and sustainable community development.

| Vision |

To become a global market leader in the MEP Construction Industry, providing engineering excellence to our valued clients through commitment in delivering best practices in corporate governance and transparency.

| Founder |

Mr. Anand Inamdar - Founder and CEO

Started the firm under the name of Acotech Engineers in the year 1992. He has 20+ years of experience as an Entrepreneur. As an accomplished engineer, Acotech founder Anand Inamdar designed & completed various civil engineering projects with the goal - ***"Complete 5 structures which people will remember for 100 years"***. With the same principle in mind, Mr. Inamdar launched Acotech Engineering pvt ltd in 1992, serving both the end users and architects through the duration of the project from concept to handover of the facility.

| Core Team |

Mr. Shailesh Ranade - Director MEP Division

Successfully executed several MEP Projects in his past 20 years of experience in the industry.

Mr. Abhijit Bam - Chief Marketing Officer (CMO)

20+ years of experience in Strategic Marketing.

| PMC Services |

At Acotech Engineers, our Project Management Consultant (PMC) service facilitates smooth implementation of projects complex or otherwise through an expert team of contractors. We offer management advice/guidance to clients in defining scope and interfaces across various agencies.

As a PMC, we undertake tendering activities including evaluation/award while taking full responsibility of overall coordination and integration of all agency related responsibilities engaged in the implementation of the entire project. The responsibilities may cover all aspects of the project, ranging from the design stage all through to completion and handover to the client. At every stage of project life cycle, we operate on the principles of proactiveness and creating a win-win situation while keeping in mind the customer / client's requirements.

- 1> **Development Solutions**
 - Predevelopment Solutions
 - Feasibility Analysis
 - Techno Commercial due diligence
 - Development Solutions
 - Turnkey
 - Design & Build
 - Construction Management

- 2> **Design Services**
 - Design & Planning
 - Feasibility Analysis
 - Client/ Design Brief development
 - Developing Master Plan and Design Concepts
 - Development of the Schematic Design
 - Detailed Design Development
 - Tender Documentation
 - Preparation of GFC drawings

 - Space Design
 - Interior Space Planning
 - Concept & Schematic Designs Development

 - Detailed Design Development
 - Tender Documentation

 - MEP Design
 - Client/ Design Brief development
 - Developing Master Plan and Infrastructure
 - MEP Design Concepts
 - Development of the MEP Schematic Design
 - Detailed MEP Design Development
 - Tender Documentation for MEP
 - Preparation of GFC drawings

 - Design Management
 - Establishment of Design Management strategy

Structural Design | MEP | PMC | Audits

- o Control, manage , assign scope and take accountability for delivery of various stakeholders of the project
- o Manage design change effectively by the evaluation of technical, time and cost effects of proposed changes.
- o Maintain stipulated quality of the design and associated documentation
- o Control project costs
- o Manage design schedules

3> **Project Management**

- Project Schedule
- Cost Management
- Risk Management
- Construction Management
- Site Supervision
- Contracts & Administration
- Reporting & Review

4> **Cost Consulting**

- Pre Contract
 - o Initial Budgetary Estimate
 - o Preliminary Cash Flow
 - o Identification of Items for Advance Purchase
 - o Value Management (with Consultants)
 - o Cost Monitoring (against Design Progress)
 - o Preliminary Cost Plan & Cash Flows
- Tendering & Documentation
 - o Procurement Strategy Packages, Tendering & Contracts
 - o Preparation of Contract Documentation
 - o Preparation of Standard & Consistent BOQ
 - o Tender Review & Analysis
 - o Preparation of Letter of Award & Contracts
- Post Contract Cost Control & Monitoring
 - o Cost Control & Administration
 - o Revised Cash Flow & Financial Advice based on Tenders
 - o Change Management Strategies
 - o Progressive Cost Plan & Monitoring of Costs
 - o Monthly Project Cost Report
 - o Indent & Check measurements/quantities, Material Reconciliation
- Post Contract Financial Management
 - o Standard Procedures for Progress Payments
 - o Attend Meetings
 - o Monthly Valuations & Progress on Payments
 - o Preparation of Final Accounts
 - o Financial & Contractual Close-out

| Structural Design |

New or existing buildings, Acotech Engineers can address any structural issues by conducting onsite evaluations. Our team of experts would inspect all structural aspects of the building and provide effective solutions in a feasible manner. Acotech Engineers takes pride in providing structural assistance during the construction process.

1> Structural Engineering Support

- Predevelopment Solutions
- 2D/3D Structural Drafting
- Structural Shop Drawings
- Rebar Detailing
- Steel Detailing
- Structural Analysis & Design
- Construction Documentation

2> Structural Analysis & Design

- Design & Planning
- Structural Design Validation
- Retaining Wall Design
- Load Calculation
- Roof Structure Design
- Lintel Design
- Foundation Design
- Concrete Structure Design
- Frame Design
- Column Design
- Wood Structure Design
- Beam & Slab Design

3> Structural Steel Detailing

- Anchor Bolt Plan Drawings
- Bar Joists Designs Drawings
- Metal Detailing
- Steel Members Detailing
- Staircase Detailing
- Fence Detailing
- Stair Handrail Detailing
- Roof Truss Joist Drawing

4> Niche Expertize

- Structural Shop Drawings
- Rebar Design Solutions
- Placement Drawings
- Bar Bending Schedules
- Concrete Masonry Detailing
- Fabrication Drafting & Drawing
- Connection Detail Drafting
- Retained Walls Detailing
- Foundation Drawings
- Built Drawings

| MEP Design |

- 1> **Heating, Ventilation & Air Conditioning Systems**
 - Air Conditioning
 - Central and Localised Heating Applications
 - Mechanical Ventilation for Parking and Basement Areas
 - Refrigeration System for Cold Storages
 - Clean Room Applications for Pharmaceutical Industries & Hospitals
 - Industrial Ventilation for Warehouses & Factories
 - Central Evaporative Cooling for Industrial and Residential Complexes

- 2> **Electrical Systems**
 - Electrical Installation of 11KV & 33KV Substation & Distribution Network
 - Stand by D.G. Sets, Synchronization & Parallel Operation Schemes
 - Uninterruptible Power Supply Schemes, Load Calculations & Distribution
 - Illumination Design & Selection of Luminaires for Aesthetic Lighting
 - Batteries, Battery Charges & D.C. Distribution Systems
 - Low Voltage Systems for Building Automation Including Communication, Safety & Surveillance

- 3> **Plumbing and Sanitary Systems**
 - Water Supply Collection, Pumping & Piping Distribution System
 - Central Hot Water Generation & Supply
 - Stormwater Collection & Disposal system
 - Hydro Pneumatic System for Distribution of Treated Water
 - Drainage Collection Disposal System

- 4> **Fire Protection System**
 - Sprinkler System
 - Flooding System
 - Fire Hydrants
 - Fire Detection system
 - Security Systems

| Audits |

With extensive industry experience, our team of qualified auditors carry out detailed third party audits which are documented in detail. Follow up audits are also conducted to ensure closures of all non-conformances and bring in measurable improvements to the systems and processes for our clients

1> **Structural Audit**

- Rebound Hammer Test
- Core Cutter Test
- UPV Test
- Carbonation Test
- Half Cell Test
- Slab Load Test

2> **Energy Audit**

- An energy audit is an inspection, survey and analysis of energy flows, for energy conservation in a building, process or system to reduce the amount of energy input into the system without negatively affecting the output(s).
- In commercial and industrial real estate, an energy audit is the first step in identifying opportunities to reduce energy expense and carbon footprints.
- By Government Laws, Every industry has to do an Energy Audit once, every 3 or 5 years.
- Final Outcome: Report submission, discussion of recommendation with the client & finalizing the report with the client.

3> **Electrical & Safety Audit**

- Studies show that over 40% of fire accidents happen due to fault in electric circuits, connections and electrical systems which are always at a threat.
- Electrical safety audit is about examining the safety of electrical installations of any industrial unit or organization.
- Final Outcome: A report with potential issues and recommendations

4> **Safety Audit**

- Safety audits are a systematic and, where possible, independent examination to determine whether activities and related results conform to planned arrangements and whether these arrangements are implemented effectively and are suitable to achieve the organization's policy and objectives.
- The health and safety management audit our members adopted is a structured process of collecting independent information on the efficiency, effectiveness and reliability of the total Health & Safety management system and drawing up plans for corrective action.
- Duration: 3 to 7 days
- Final Outcome: A Report with remark and recommendations.

5> **Hazop Study**

- A hazard and operability study (HAZOP) is a structured and systematic examination of a complex planned or existing process or operation in order to identify and evaluate problems that may represent risks to personnel or equipment.
- The intention of performing a HAZOP is to review the design to pick up design and engineering issues that may otherwise not have been found.
- Duration: A minimum of 3 and maximum 7 days
- Final Outcome: Report with comments and recommendations.

6> Infrared Thermography

- Thermography is the practice of quantitatively measuring radiative heat emissions from objects for predictive and preventive maintenance programs. Thermographic Inspection can be used to pinpoint components that are operating at a temperature higher than other components, indicating degradation, or to locate where energy losses are occurring such as in cryogenic fluid lines, steam pipes or electrical system.
- Duration: May vary on a case to case basis typically in the range of 1 to 3 days.
- Final Outcome: Audit report with before and after imagery.

7> Harmonic Analysis

- Power harmonics are generated because of increasing use of non-linear loads like AC drives, DC drives, induction furnaces and so on. The harmonics cause deterioration of the electrical components like capacitor, transformers, motors etc.
- It is necessary to measure the harmonic contents in the power supply either received from utility or generated within the plant. The harmonic audit is aimed at carrying out the harmonic measurements at various locations identified within the plant.
- Duration: 1 to 15 days depending upon size of the plant
- Final Outcome: Report with remark and recommendations.

| Few of Our Solutions |

Across Industries we have built a set of solutions that have been successfully implemented.

- 1> **Water Management Solution**
 - Feasibility Studies
 - Basic Engineering
 - Geotechnical Engineering
 - Detailed Design Engineering
 - Project Monitoring
 - Design of industrial water treatment plants
 - Design of industrial wastewater treatment plants
 - Design of Rainwater harvesting systems

- 2> **Urban & Infrastructure Solution**
 - Master Plan
 - Regional Plan
 - Land Use Plan
 - Development Plan Site & Area Planning
 - City Development Plan
 - Urban Renewal Schemes
 - GIS Modelling
 - Infrastructure Planning
 - DC Regulations
 - Institutional Framework and Capacity Building
 - Feasibility Studies Detailed Project Report
 - Environmental Impact Assessment
 - Environment Management Plan
 - Social Impact Assessment
 - Solid Waste Management
 - Natural Resource Management
 - Disaster Mitigation & Management Plan
 - Noise & Vibrations

- 3> **Transportation Solution**
 - Transportation Plan
 - Transport Modelling
 - Traffic Impact Assessment Studies
 - Transit Planning
 - Traffic Management Studies
 - Transportation Policy Studies
 - Travel Demand Studies
 - Pre-Feasibility Studies
 - Feasibility Studies
 - Detailed Project Reports

- 4> **Tourism Solution**
 - Tourism Master Plan
 - Tourism Infrastructure Planning
 - Tourism Demand Assessment

5> Turnkey Solution

- Our turn-key solutions optimize the entire construction process and reduce inefficiencies in the system for our clients. This is achieved through outsourcing specialist services like design to competent associate companies to ensure seamless integration of client requirements in minimum time.

6> Design Outsourcing

- We work with other Structural and MEP consultants as well as outsourced partners and support them in their design work. So we are a trained team available to these consultants at a short notice when their workload increases. This reduces the fixed cost burden for the consultants and they are still able to deliver their projects on time.

7> Procurement Solution

- This covers not only contracts, purchase, inspection, expediting, but also supplier/contractor enlistment. We procure the works, material and services of the specified quality within the specified time at the most competitive price in a fair, just and transparent manner.
- We have a data bank of almost 100 suppliers for 500 items in different discipline and about 50 contractors in different discipline/categories. Performance of suppliers and contractors are reviewed periodically.

8> Construction Management

- Customers having in-house capability in design & procurement management and those who need to scale-up or those with uncertain demand choose us to provide technical services for construction management of their projects. This provides very cost effective solution for their requirements of construction supervision, contract administration, testing/commissioning and handover. These engagements are fixed resource & time-bound as per needs of clients..

| Few of Our Projects |

1> Civil & Structural

Name of the Project	Project Cost (Crores)	Location
Goa Administrative Building	15	Goa
Construction of shopping community center	30	Ratnagiri
Construction of Veg. Market	5	Ratnagiri
Multipurpose sports complex at Netaji Ground	10	Ambernath
Ambedkar Smarak	5	Badlapur
Ratnagiri Administrative building	15	Ratnagiri
Fire station	5	Ambernath
School building	4	Ratnagiri
Urdu school building	0.3	Badlapur
Fish market	1.2	Ambernath, Badlapur & Mahad
PMGSY road DPR preparation	14	Wada, Murbad
CC roads	283	Ambernath, Badlapur & Shahapur
Pipeline work	5.75	Mahad & Shahapur
Storm water DPR	100	Ambernath
Badlapur Gaon Lake	1.6	Badlapur
Garden beautification at Kher section	4	Ambernath
Disable School Building	3	Badlapur
Fertilizer Shade	0.5	Badlapur
Construction of Night Shelter	4	Ambernath & Badlapur
Bus depot	16.77	Bhayandar

2> MEP

Name of the Project	Project Cost (Crores)	Location
Solar captive power plant	6	Mahad
Bus depot	6	Bhayandar
Electrification of roads	10.5	Badlapur
Electrification of multipurpose sports complex	1.7	Ambernath
Night shelter	0.22	Ambernath
Refurbishment of municipal water pumping station	0.75	Mahad
Fire protection system for fire station	0.25	Ambernath

Goa Administrative Building	1.5	Goa
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3> Civil & Structural & MEP

Name of the Project	Project Cost (Crores)	Location
Construction of C.C. roads under Maharashtra Suvarna Jayanti Nagarothan Maha Abhiyan.	198.43	Kulgaon Badlapur
Construction of C.C. Roads under Maharashtra Suvarna Jayanti Nagortthan Maha Abhiyan	40.00	Mahad
Construction of Primary health center at khuntavali, cum OPD & Hospital in Ambernath Municipal Council Area	35.16	Ambernath
Construction of Dr. Babasaheb Ambedkar memorial center at sonivali in Kulgaon Badlapur Municipal Council	4.85	Kulgaon Badlapur
Construction of primary health center & hospital under National Urban Health Mission.	4.52	Ambernath
Construction of modern & hygienic Fish market with financial assistance from NFDB	2.23	Kulgaon Badlapur
Construction of administration building & shopping center under BOT	2.40	Kulgaon Badlapur
Construction of Fire station under Maharashtra fire protection Service programme	1.62	Kulgaon Badlapur
Construction of foot over Bridge to sai baba tekadi in Kulgaon Badlapur Municipal Council	0.25	Kulgaon Badlapur
Widening & construction of Bridge at KB road to Fatima in Ambernath, Ambernath Municipal Council area	0.66	Ambernath
Maharashtra Golden Jubilee Urban Dalit Waste Water Supply & Sanitation Project in Kulgaon Badlapur Municipal Council	3.16	Kulgaon Badlapur

4> Structural

Name of the Project	Area (SqFt)	Location
High rise building G + 10	77525	Badlapur
Shopping centre	20982	Badlapur & Ratnagiri
Structural audit of Anjuman Islam school	5500	Badlapur
Structural audit of Geet Govind Society	7000	Thane
MHADA buildings repair and rehabilitation work	3662	Mumbai
Construction of Pentecostal Mission Church at Ambernath	11070	Ambernath
Fire Station Quarter (G+5)	20462	Ambernath
Administrative office for Municipal Council	26910	Goa
Veg Market	3051	Goa
Disable School(plot no: 1,2)	15688	Badlapur
Ratnagiri School Building	29945	Ratnagiri
Ratnagiri Veg Market	7796	Ratnagiri
Night Shelter	12664	Ambernath

Fire Station	11298	Ambernath
Netaji Stadium	30310	Ambernath
Solid Waste Shade	4704	Badlapur

Set a Free Consulting Session With Us

If there are any areas in your current project where you are stuck or about to start a new project where you need some question answered then please connect with us.

We would be happy to set a Free Consulting Session to help you find answers. Please call & directly speak with our Founder Mr. Anand Inamdar on +91 9004655131 or call our office number +91 251 2691123 or write to us at acotechgroup@gmail.com

| Contact Us |

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