



## GET IN TOUCH



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## CIVIL DESIGN

Our civil design & drafting services possesses the appropriate resources, latest technology and expertise in various CAD and other software which enables us to successfully meet the growing demands and expectations of Civil Engineering firms and companies.

- Construction Documentation, Construction Drawings
- Land development design, MEP design and drafting
- Plumbing & drainage design
- Cable Duct Banks & Road Crossings
- Manholes & Hand holes
- Detailed Construction/Shop Drawings



## ARCHITECTURAL

Our civil/structural engineering division has the capability to design a range of concrete & steel structures and equipment foundation bases, where our engineers have extensive experience in Oil, Gas & Petrochemical Industries.

- Culverts, Pipe bridges & support
- Soil & Contour Surveys, Open & Closed Sewers
- Substations & Control Buildings
- Vessel /Tank bases, Equipment Foundations
- Cable Duct Banks & Road Crossings
- Manholes & Hand holes, Industrial & Commercial Buildings & Structures
- Detailed Construction/Shop Drawings
- Material Take-Offs (MTO)/ Bill of Materials (BOM) Bill of Quantities (BOQ)
- Enquiry, Tendering & Evaluation Packages, Field Engineering & Assistance
- During Construction



## STRUCTURAL

AR Engineering Designers Co. has a team of skilled Civil & Structural engineers who have domain expertise and vast industry experience to build the most sustainable and energy efficient structures.

- Concept & Detailed Structural Design
- Industrial & Commercial Buildings & Structures
- Structural Steel Design & fabrication drawings
- Setting out & formwork drawings
- Reinforcement details & shop drawings
- Equipment Foundations, Value Engineering
- Optimized Bar bending schedules, As-Built drawings, GFC drawings & documents



## ELECTRONICS AND COMMUNICATION

AR Engineering Designers is one of the finest companies in electronics & telecommunication drafting through CADD systems. The design & drafting services provided by us are available to all at very economical rates and also at faster phase.

- PCB design, Circuit designs
- Circuit board assembly diagrams
- Electronic schematic diagram
- Electronic product designs
- Telecommunication Towers and equipment designs
- Instrumentation system design, Networking and telecommunications equipment design



## MECHANICAL

Mechanical Engineering is the most essential branch of engineering mainly focuses on design of Special tools, machines, process piping, mechanical equipment, etc... used in various industries.

- Components / Parts Design & Development
- Product design & development
- Pumps, Compressors and Turbines Design
- Machine Designs, Jigs and Fixture Design
- Conceptual Design
- Prototyping and rapid prototyping.
- Fire Fighting & Fire Protection Systems, HVAC & AHU Systems
- Process Piping & Flow lines. Utilities-fuel lines, plumbing, steam piping,
- Compressed air lines, etc., Sheet metal design.
- Steel Structures, Steel Staircases, Steel Racks, Steel Supports and Steel Cabinets.
- Vessel and Tanks Fabrication/Shop drawings Plans, isometrics &
- Cross sectional drawings. Detailed fabrication, assembly and installation drawings and documents



## ELECTRICAL

Electrical drafting and design is a vital component of many design projects. Technical drawings are the primary tool that engineering designers use to communicate their design plans to the people who are responsible for manufacturing the products. Accuracy and precision are essential for making sure the product meets specifications during manufacturing. And this means working with experienced and talented design & drafting technicians.

- Medium Voltage Switchgear**
- 6KV, 11kV, 22kV & 33kV Vacuum Circuit Breaker (VCB) panel design with various types of relays developed by ABB, Schneider, Alstom & etc.
  - 3kV Vacuum contactors panels, Load Break switches, Isolators and Auto Re-closer panels.



- Low Voltage Switchgear**
- FORM- 4 Construction: Motor Control Center's (MCC) in cubical construction with indoor and outdoor application.
  - FORM- 2 Construction: Power Control Center (PCC), Metering & Protection panels, Control & Relay Panels, Auto change over panels Street lighting Panels, Feeder Pillars, Transformer Relay Panels, Main and Sub distribution boards. Power Factor correction panels, Capacitor banks.

**Automation Systems**

We are offering automation design and drafting solutions with core competence in Electrical, Instrumentation and Control systems.

- SCADA system
- PLC & DCS System
- VFD system
- Distribution Automation system

### Substations

- Unit Substations: Combination of Low voltage panel with Transformer.
- Package Substations: Combination of Low Voltage panel, Transformer & Ring Main Unit (RMU) mounted on a common skid base and housing.

### Customized Design Services

- Pole and Pad mounted Transformers design services.
- Customized Electrical motor and generator design services.
- Transmission and distribution steel towers, poles and structure design services.
- Hybrid design Services to tie Solar / Wind / DG / Conventional Energy
- Industrial, Commercial and Residential Solar Roof Tops

## OUR SERVICES



## CADD & DIGITIZING

We offer CAD Conversion services that are ready-to-use, created from raster images, scanned pdf, markups maps, blueprints etc.to various industries including mainly Engineering, Construction, Architectural, Civil, Mechanical, Electrical, Piping and Instrumentation.

- 2D drafting. 3D drafting.
- Isometric drawings. As Built services.
- PDF to CAD / Microstation conversion.
- Image to CAD / Microstation conversion.
- Hand sketch to CAD / Microstation conversion.
- Raster (Tiff) image to CAD / Microstation Conversion.
- Presentation CAD / Microstation documentation service.
- Design development CAD / Microstation documentation service.
- CAD redrafting & CAD Conversion service.
- AutoCAD (DWG) to Microstation (DGN) conversion (Vice versa)



## INSTRUMENTATION

Our instrumentation engineers have extensive experience in Instrumentation & Control Systems throughout the Oil and Gas Refineries, Petrochemicals, Power & Process industries

- Vendor data review
- Piping and Instrumentation Diagrams (P & ID)
- Instrumentation database
- Points & Lines, Instrument Layout
- Cable & Conduit Schedules
- Instrument data hookups, Instrument Loop diagrams
- Logic Diagrams, Block Diagrams and Wiring diagrams
- Flow metering, analyzers, machinery, monitoring, field instruments, control panels, etc.



## PIPING / PIPELINE

AR Engineering Designers Co. provides piping design and drafting services to engineering contractors and customers for a variety of refinery, offshore, petrochemical, water, power and industrial projects, with efficient piping design services that meet international codes and standards.

- P&ID's, plans, isometrics & pipe support details.
- Specifications & data sheets for equipment (valves, pipelines, pressure vessels, storage tanks, rotating equipment, package units, pumps, compressors, etc.)
- Conceptual Piping routing. Process Piping, Flow lines & Cross-country Pipelines.
- Utilities-fuel lines, plumbing, steam piping, compressed air lines, etc.
- Detailed Installation/Fabrication Drawings and Documents.



## ABOUT US

*"Innovate with us for Accurate & Reliable Design and Drafting Services"*

AR Engineering designers Co. was formed in the year of 2011 in India, Our aim to provide high standard engineering design & drafting services to various clients, through utilization of the expertise and vast experiences of engineers and designers who have worked directly with engineering firms throughout the India, Middle East, Canada, UK and US.

Our Engineers, designers & drafters specializing in a wide range of Design & Drafting projects and well versed in using computer aided design and drafting (CADD) programs as means to enhance their design activities that ensure continuity of thought from engineering to drawing development.

For us, innovation lies at the core, and every project delivery is aimed at helping clients gain maximum returns on investment. While we cultivate business relations based on principles of commitment, fairness, integrity and excellence.

From concept to execution, we support clients from Power & Energy sectors, Automobile, Heavy Engineering, Oil & Gas, Telecommunication, Building Construction and design engineering industries at any stage of product development lifecycle.

The certainty of success is guaranteed if you work with a partner you trust. We extend our exceptional support and expertise that will drive your business to greater heights towards success.

## Our Mission

To provide reliable CAD services of international standards to clients across the globe while maintaining high levels of customer satisfaction and profitability. Our work culture is supported by positive attitude, extensive experience and strong core values, which contribute to our strong performance, productivity and retention. We believe in our competencies, and deliver what we promise.

## Our Vision

We strive to consistently deliver high quality Engineering design & CAD Drafting services with optimal accuracy. We analyze the scope of work, conjecture about an estimate time of delivery, discuss on the range of software solutions that the clients need so as to execute the project, sum up the clients with valuable feedbacks pertaining to the project and carry out rigorous three fold quality checks before delivering the project, on time.

## Why Us?

- Client information is 100% confidential.
- Real-time access to technically skilled people.
- Dedicated and reliable team for long-term support.
- Project updates on a regular basis.
- Exceptional technical competency.
- Reduced Overhead Costs.
- Significant cost savings on every project.
- Free – No obligation quote.
- Tailor-made processes to suit project needs.
- On-time project delivery.