

An ISO 9001:2000 & BS7799-2:2002 Certified Company



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Avineon's engineering team has expertise to execute the following services:

- Design & Detail Engineering
- 3D Modeling
- Review Engineering
- Bid Assistance Support
- Procurement Support
- Creation of Intelligent P&ID's
- 2D Drawing Conversion
- Project Management
- As-built Engineering

Engineering Expertise

Piping

- Development of Plot Plan, Key Plan, Equipment Layouts
- Performing Piping Studies
- Preparation of Piping General Arrangement Drawings
- Preparation of Piping Material Specifications
- Nozzle Orientation
- Stress Analysis of Piping Systems
- Pipe Support Engineering including Special Supports preparation
- Preparation of Isometric drawings
- Material Take-off's / Requisition for Piping & Specialty Items
- Pipeline Design & Preparation of Alignment Drawings

Mechanical

- Analysis, Design, Detailing as per ASME Sec VIII Div-1 & Div-2 for Pressure Vessels, Heat Exchangers, Reactors, Columns, Towers etc
- Wind & Seismic Analysis
- Preparation of Strength Calculations, GA Drawings & Civil Loading Data
- Vendor Drawing Checking & Approval

Electrical

- Load Flow & Motor starting studies
- Single Line Diagram (SLD)
- Electrical Layouts for Power & Equipments
- Selection of HV/LV Switchgear, MCC, Transformers
- Data Sheets/Specifications for Electrical Equipments
- Voltage drop & cable sizing calculations
- Cable Schedules & Installation drawings
- Technical Bid Evaluation
- MTO

Civil

Analysis, Design, Detailing & Preparation of Bar Bending Schedules for

- Reinforced concrete framed structures
- Foundations for Structures, Equipment & Machinery
- Concrete storage silos, Large diameter storage tank foundations
- Retaining walls, Dyke walls and Boundary walls
- Cable & Pipe trenches/tunnels
- Roads, Pavements, Grading plan and Drainage systems

Structural

Analysis, Design, Detailing & Preparation of Fabrication Drawings for

- Steel framed buildings and Superstructures
- Pipe & cable rack structures, Conveyor galleries & Trestles
- Large diameter/size storage sheds
- Turbine houses, workshop buildings etc
- Switch yards and Transmission line towers

Instrumentation

- Layout Drawings - Field Instrument, Cable Tray & Control Room
- Instrument Specification Sheets and Requisitions
- Instrument Loop & Hook-up Drawings
- Cable Block Diagram & Cable Schedule
- Valve Sizing
- Logic, Cause and Effect Diagrams
- MTO
- Technical Bid Evaluation
- DCS, PLC SCADA & I/O list

Plant Design Automation

Project Set-up

- Creation of database schemas, areas, zone, models, setting parameters

3D Customization

- Piping Specifications
- Piping and Instrument Components
- Equipment Eden
- Piping Assembly
- Piping Supports
- Border files for Drawings and Reports
- Isometric Option Files

3D Modeling

- Equipment, Piping, Structural, Instruments, EE Raceways/ Cable trays
- Piping Supports – Physical & Logical
- HVAC

Extraction of Reports

- Equipment / Nozzle List
- Line List, Instrument List
- MTO (Piping)
- Interference Reports

Design Review

- Generating Design Review file
- Generating Walk-through
- Resolving Design Review Comments

SmartPlant P&ID

- Creation of Intelligent P&ID's
- Database customization
- Customization of Reports
- Extraction of reports – Equipment List, Valve List, Line List

Extraction of Drawings

- General Arrangement Drawings (Piping Drawings, Electrical / Instrument Cable Layouts, Lighting Layouts, Fire & Gas Layouts, Telecom Layouts, U/G Drawings)
- Nozzle Orientation & Platform Requirement drawings for Equipments
- Isometric Drawings

CAD Conversion

- Conversion of Hard copy / Images to Electronic format

As-Built Services

- Updating the drawings based on field markups

Project Management

- Project Management Website
- Issue Tracker
- Engineering Progress Measurement & Reporting

Software Expertise

* PDS 2D & 3D

* PDMS

* AutoPLANT

* PlantSpace

* SmartPlant 3D

* SP Instrumentation (INtools)

* SmartPlant P&ID

* SmartPlant Review

* VPD Review

* NavisWorks

* Tekla Structures (Xsteel)

* CAESAR II

* Pelican Forge

* STAAD Pro

* SACS

* ANSYS

* ETAP

* InstruCalc

* COMPRESS

* PVElite

* MicroStation

* AutoCAD

