



PIER ENGINEERING SOLUTIONS

An E&I Design Consultancy



COMPANY

PROFILE



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OIL & GAS | POWER | STEEL | PHARMA | WAREHOUSE

OUR STRENGTH

We are well conversant with IEC, IEEE, NEC, Indian Standard, OISD, Shell DEP, ISA, ISO, PIP, API, ASME, ANSI, ATEX and have executed several projects globally.

OUR SERVICES

Our services include the following:

- Plant Design
- Substation Design
- Power System Studies
- Solar Plant Design
- Electrical Safety Audit

We also provide support for bidding activity of the project.

Company Introduction

PIER Engineering Solutions is a leading **Electrical & Instrumentation** Detailed Engineering consultancy founded in 2018; providing services for various sectors like Oil & Gas, Power, Steel, Pharma, Warehouses, and Commercial Buildings. We are operating from Ahmedabad, Gujarat (India) and serving globally.

Timely delivery, Quality & Optimum cost-effective designs are pillar of success to any Engineering projects and we are bound to perform the same. With the rich experienced & young dynamic team of Engineers & Designers, we together make the project successful.

We have evolved with time in a sustainable manner to deliver projects to our clients beyond expectations, by using latest technologies and techniques. We are committed to manage stringent timeline of projects.

Electrical Design

- Single Line Diagram
- Control Schematic
- Cable Routing Layout (Trench, Tray Etc.)
- Lighting Layout
- Earthing & Lightning Protection Layout
- Hazardous Area Classification
- Substation Layout
- Switchyard
- Public Address & Fire Alarm System
- Solar Plant Design

Electrical Engineering

- Electrical Design Basis
- Technical Specifications
- Electrical Load List
- Equipment Datasheet
- Material Take-off
- Material Requisition
- Technical Bid Evaluation
- Method of Statements
- Schedule of Rates
- Vendor Drawing Review

Electrical Calculations

- Generator Sizing
- Bus-bar Sizing
- Transformer Sizing
- Neutral Grounding Resistor Sizing
- CT & PT Sizing
- Cable Sizing & Voltage Drop
- Switchgear Sizing
- Lighting Calculation
- Earthing Calculation
- Lightning Protection Calculation
- Capacitor bank Sizing
- AC & DC UPS Sizing



Power System Studies

- Load Flow
- Short Circuit
- Motor Startup (Static & Dynamic)
- Relay Coordination
- Arc Flash
- Harmonics
- Transient Stability

Instrumentation Engineering

- Instrumentation Design Basis
- Technical Specifications
- Instrument Datasheet
- Instrumentation Index
- I/O List
- Cable Schedule
- Cable block diagram
- JB Schedule / Interconnection diagram
- Loop Schematics
- Loop drawing
- Logic diagram
- Cause & Effect Diagram
- F&G Layout
- Instrument hook up diagram / Installation details
- Instrument location layout
- Instrument tray routing layout
- Control Room layout
- Material Take-off
- Technical Bid Evaluation
- Vendor Drawing review



Sizing & Selections of Instruments

- Pressure Gauge
- Level Gauge
- Temperature Gauge

- Temperature Element - Thermocouple / RTD Thermowell
- Pressure, DP Flow, DP Level, Radar Level Transmitter
- Flow Element - Orifice, Coriolis flow meter, Mag flow meter
- Control Valve
- On-off Valve
- Relief Valve
- Instrument Cable
- FO Cable
- Junction Box
- Tubing
- Instrument tray

Control System

- DCS
- PLC
- SIS / ESD
- FGS
- PAGA

Our Clientele

