



CHAURUS GROUP

Together For Growth

Chaurus Services Pvt. Ltd.

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INTRODUCTION

Established in the year 2017, Chaurus Group has now grown in to a cluster of specialized companies operating in the engineering, procurement, construction, trading, manpower supply, & other services.

Under the company name Chaurus Services Pvt. Ltd. (CSPL) operating in EPC (Engineering, Procurement and Construction), Manpower Supply, trading with wide range of services which expands Design, Engineering, Material Procurement, Skilled Manpower Supply and Project Management in the field of Mechanical, Piping, Pipeline, Electrical, Instrumentation, Civil, Structural of projects for Oil and Gas, Chemical, Power Sectors, Process Industries, Petrochemical Industries and Water Industry.

CSPL works with the highest efficiency and in accordance with the latest technologies in conformity with international standards of quality, security and safety. we utilize trained and experienced staff for the implementation and delivery of projects with commitment to contract terms, conditions, and preservation to the environment.

CSPL has proceeded and built a proven record of success and reliability because it has always dedicated itself to helping its clients to meet their total goals. Our experiences are now allowing us to make a good partner for clients and foreign engineering and construction contractors to respond to this need.

OUR VISION

To become a leading Engineering, Procurement, Construction, manpower Supply Company in oil & gas & other industries committed to quality and timely completion of projects, continuously enhancing customer satisfaction & believing in the aspect of “Together for Growth”.

OUR MISSION

Driven by our own vision, we shall deliver high-quality, cost-effective solutions and enhance our client's satisfaction through continuous improvement of our business practices in terms of safety, quality and service delivery as well as sound environmental awareness policies.

In order to accomplish our goals, we have developed the strategy which can be summarized in the following key points.

- Availability of highly professional, motivated and experienced staff.
- The use of latest technology and innovation for sustainable growth.
- Flexible approach to our clients and availability at any time.

OUR VALUES

CSPL Engineering Company culture is identified by six core values:

- Commitment-We are committed to our partners, customers and suppliers
- Teamwork-We work together as a unit
- Initiative-We encourage our employees to take initiative.
- Ethics-We are professional and transparent in our service
- Quality-We deliver each project with highest standard of quality
- Safety-We are committed to HSE excellent

WHY CHAURUS SERVICES PVT. LTD. (CSPL)

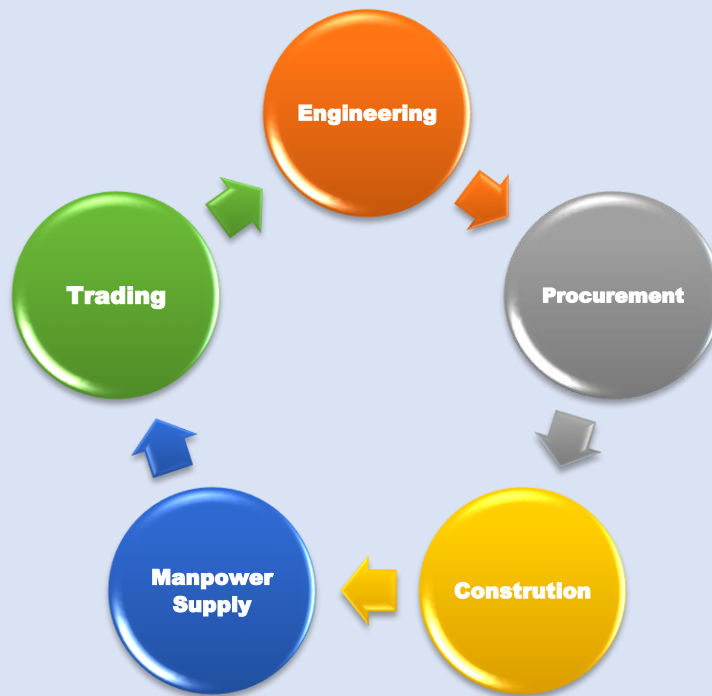
- On Time Delivery
- Trust & Credibility in the market
- Services of international standard
- Cost effective services to the industry

INDUSTRIES WE SERVE

- Oil & Gas
- Petrochemicals
- Power
- Water
- Chemicals
- Manufacturing

OUR SERVICES

CSPL offers the following services:



1. ENGINEERING SERVICES
2. CONSTRUCTION/FABRICATION SERVICES
3. TRADING

4. PROCUREMENT SERVICES
5. MANPOWER SUPPLY

1. ENGINEERING SERVICES

We offer wide range of Engineering Services including Process, Piping, Mechanical, Instrumentation, Civil, Structural Stress Analysis, Modeling etc.

a. PROCESS ENGINEERING

CSPL's team of process engineering handles complete detailed engineering of process plants.

The various services covered include:

- Preparation of Conceptual Design, FEED (Front End Design) and Detail Design work
- Hydraulic Calculation Report
- Pressure Drop Calculations
- Development of PFD's, P&ID's and UED's
- Sizing calculations
- Dispersion Calculations
- Adequacy Check and Calculation Reports
- Valve Classifications
- Operating and Control Philosophy
- Steady State Simulations
- Transient (Dynamic) Simulations
- Surge analysis
- Study Reports
- Equipment Sizing (Pumps, Compressors, Static Equipment, etc...)
- Line Sizing
- Control, Shutdown, and Safe Guarding Philosophies
- Cause & Effects
- Utility Calculation reports
- Preparation of Equipment Datasheets
- Vendor drawing evaluation & approval

b. PIPING ENGINEERING

We have skilled team of piping designers and engineers who have knowledge to optimize piping layouts without any maintenance and repairing. The various services covered include:

- Preparation of Conceptual Design, FEED (Front End Engineering Design) and Detail Design work
- Piping Material specification
- Prepare design basis and standard drawings
- Prepare piping materials specifications
- Preparation of Material Take off, Requisition for Piping and Specialty Items
- Pipe Support Engineering comprising of special supports preparation of data sheets.
- Isometric Drawings preparation
- Evaluation and approval of vendor drawings
- Pipe Thickness Calculation
- Data sheets and Specifications
- 3-D modelling
- Stress Analysis
- Pipe Support Design
- Isometrics, GA drawings and all other relevant piping Drawings
- As-built documentation

c. PIPELINE ENGINEERING

The various services covered include:

- Pipeline Design for Sub-Sea, Onshore and Cross Country Pipelines
- Pipeline design Basis
- Pipeline Wall Thickness Report
- Pipeline Specifications and Data Sheets
- Pipeline material Take-off
- Pipe Support Detail
- Expansion Loop
- Specifications and Data Sheets
- 3-D modelling
- Stress Analysis

d. MECHANICAL ENGINEERING

The various services covered include:

- Mechanical Analysis: Thermal, Stress, Structural
- Tank design and Drawings
- Heat Exchanger/Pressure Vessel Design and Drawings
- Rotating and Non Rotating Equipment Specifications and Data Sheets

e. INSTRUMENTATION ENGINEERING

We are well expertise in offering Instrumentation Designing Projects for Oil & Gas Services to Oil and Gas Industry. We have qualified engineers who use advanced technology to design project and prepare layout for installing plant. Our engineers offer Instrumentation Designing Projects for Oil & Gas Services that are ensured as per International Standards.

The various services covered include:

- Specifications and Data sheets for the Inline Instruments
- Instrument-Hook Up Drawings
- Instrument Schedule
- Cable Schedule
- Loop drawings
- MTO
- Operating and Control Philosophy
- Cause & Effect Diagram
- Fire & Gas System, Panel and Detector Design and Drawings
- Cable Route Layout
- Junction Box Termination Drawings
- Interlock Logic Diagrams
- Cable Tray/ Cable Trench Layouts
- Cable List
- Application and Specs for Instruments
- As Built Drawings and Documentation
- User interface Drawings for DCS, PLC, SCADA & MCC
- Bill of Materials
- FAT and SAT Procedures

f. CIVIL ENGINEERING

The various services covered include:

- Excavation Drawings
- Road Crossing Culvert Design Calculations and Drawings
- Rotating and Static Equipment Foundation Design and Drawings
- Fence Drawings
- Pipe Sleepers and Support Calculations and Drawings
- Pump Station Buildings and Sub-Station Building Design and Calculations
- Culvert Design and Calculation

g. STRUCTURAL ENGINEERING

The various services covered include:

- Pipe Support Design and Drawings
- Access and Maintenance Platform Design Calculations and Drawings
- High Post and Elevated Pipe Support Design and Drawings
- Structural Design
- Structural Analysis

h. DETAILED ENGINEERING

CSPL Engineering Company is an owner-operated company with years of experience in computer-aided drafting. Providing unique designs and working drawings for all equipment of oil & gas industries. Designing, drafting, or transferring board drawings to computer, all are performed to related standards and specifications. Client satisfaction is our top priority.

CSPL is supported with the latest developed software for drawing preparation as follows:

i. 2D/3D MODELLING

3D MODELING SERVICES

CSPL offers a full range of 3D design services. We offer multidisciplinary plant modeling services involving the manner in which optimum piping routes are developed from an operational, maintenance, and safety perspective. Our team of expert CAD professionals and design engineers collaborate with EPCs, engineering consultancies, and OEMs to deliver quality 3D modeling services. With extensive on-site experience, our team creates real-time walkthroughs as digital models, offering a comprehensive understanding of the facility before construction begins.

2D CAD DESIGN SERVICES

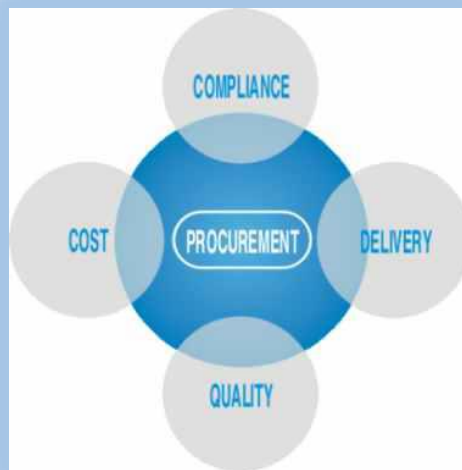
CSPL is a trusted one-stop solutions provider that helps generate 2D CAD drawings and designs for companies across diverse industry sectors such as oil & gas. We understand customers' technical requirements and create technical drawings that meet international quality standards and offer 2D CAD drafting services, including images, markups maps, blueprints, etc.

Our team is comprised of experienced engineers, CAD designers, and project management professionals who are proficient in managing specific 2D CAD design requirements. Our 2D drafting services team helps render prompt, effort-free, reliable, and accurate designs to customers.

j. PIPING STRESS ANALYSIS

A pipe stress analysis (thermal flexibility analysis) predicts stresses in piping and loads on equipment resulting from thermal gradients, thermal transients, weights, pressure, and bolt-up strain. Our teams have a long and wide range of project experience to carry out the full spectrum of stress analysis services for piping systems and piping flexibility analysis. We conduct detailed piping stress analysis, evaluation, and confirmation of the structural & operational integrity of process piping systems.

2. PROCUREMENT SERVICES



CSPL offers Procurement Services for various clients globally. The services include contracts and purchase, inspection, expediting, transportation as well as supplier enlistment.

We have vast expertise in procurement through excellent manpower, procedures, rules and policies ably supported by an extensive data base with vast information on global suppliers and contractors from all over world.

CSPL is intended to procure 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 our database for vendors and contractors in various items/Equipment categories. Performance of vendors and contractors are reviewed periodically.

We provide the procurement services under following categories:

- Mechanical Equipment/Items
- Piping Items
- Electrical Items
- Instrumentation Items
- Civil Items

3. CONSTRUCTION/FABRICATION SERVICES

3.1 Civil Construction

CSPL is well equipped as a leader with our associate companies to perform the following Civil Fabrication & Construction works.

- Grating and Ground Excavation
- Equipment Foundations
- Concrete Culverts and Road Crossings
- Structural Foundations
- Fence and Main & Emergency gates
- Equipment Rooms and Small Sheds foundation
- Maintenance works in Industries during shutdown
- Industrial Buildings

3.2 Structural Fabrication & Construction works

CSPL is well equipped as a leader with our associate companies to perform the following Structural Fabrication & Construction works.

- Steel Fabrication Works
- Structural access platforms, maintenance platforms, crossovers and Pipe Racks
- Pipe Supports and Supporting Structures
- Structural Buildings (Workshops, Wear House and Factory)
- Field Installation and Commissioning

3.3 Mechanical Fabrication

CSPL is well equipped as a leader with our associate companies to perform the following Mechanical Fabrication & Construction works.

- Pressure vessel (Horizontal & Vertical) Fabrication and installation.
- Heat Exchangers (All Type) Fabrication & Installation
- Mechanical Static and Rotating Equipment Installation
- Fabricating special Equipment

3.4 Pipeline Fabrication

CSPL is well equipped as a leader with our associate companies to perform the following Piping & Pipeline Fabrication & Construction works.

- Fabrication of pipes and pipelines as per Isometrics and Alignment sheet
- Installing pipes and pipelines at site with field welds
- Pipe support fabrication and installation
- Hydro test, Pneumatic test and Radiographic tests
- Buried pipe installation
- Tie-in connections from the existing system
- Fabrication and Installation of GRE, GRP, HDPE, CS, SS and Alloy steel piping

3.5 Electrical & Instrumentation Fabrication

CSPL is well equipped as a leader with our associate companies to perform the following E&I Fabrication & Construction works.

- Cable laying
- Electrical Power supply system installation to all the industrial facilities

4. MANPOWER SUPPLY

CSPL works closely with clients to develop comprehensive workforce depending on requirements. Our personnel are recruited only after extensive interviews and checks. All our workers are having adequate experience in their field of expertise.

CSPL provides clients with a full range of workforce supply – both skilled and unskilled laborers. Our workers are available on short notice to fill both short and long term employment requirements.

We provide workers in the following categories:

- Engineers: Provision of specialist engineers at all phases of projects including design, procurement, construction and commissioning including health and safety, quality assurance, information technology and environmental engineering.
- Provision of operations and maintenance teams on oil, gas and products pipelines and associated facilities
- Piping Engineers (PDMS/PDS)
- Stress analysis Engineers (CAESAR II)
- All other Discipline Engineers in all Levels
- Maintenance and Operational Engineers
- Labors and Technicians
- Supervisors
- Project Managers & Construction Managers
- Welders
- Electricians
- Office Staff
- Fabricators
- Skilled and unskilled laborers

5. TRADING

CSPL has always been a trustworthy associate to its partners Principles & Professional Associates. CSPL represents a number of renowned Oil and Gas, Power Generation, Water and waste water items manufacturers as well as leading instrumentation items manufacturers. CSPL team of professional sales engineers adds value to the principal's products by providing product sales and after-sales services.

We are continuously expanding our product line to be one stop shop for all requirements in the fields of Oil and Gas, Petrochemicals, Power generation and water, Chemicals, Manufacturing etc.

Steel Products

Pipes:

Type: Seamless, & Welded (ERW, EFSW, SAW)

Size Range: 1/8" to 96"

Wall thickness: Up to 6"

	Material: CS, LTCS, SS, DSS, SDSS, Alloy.
Fittings	Type: But weld fittings (Elbow, Tees, Reducers, Caps, Bends- Seamless and Welded type); Forged fittings (Weldolets, Sockolets, Nipolets, Nipo flanges); Threaded fittings
Flanges	Type: Weldneck, Slip-on, Blind, Swivel ring, Anchor, Spectacle blinds.) Size range:1/2" to 144"; ANSI #150 to #2500;API 6A, #2000 to #15000 Material: CS, LTCS, SS, DSS, SDSS, Alloy
Gaskets	Type: Spiral wound, Metal Jacketed, Flat & Grooved metallic, Solid metallic and non-metallic. Fillers: Asbestos, PTFE, Graflex, Exfoliated Graphite, Jacket materials: Soft iron, Soft steel, SS 304,SS 321,316,401,Copper, Brass, Monel, Chrome, Aluminium, Incoloy, Titanium, Nickel, Inconel
Fasteners	Type: Stud bolts, Anchor bolts, U bolts, Nuts, Bolts and washers. Material: Steel, Alloy Steel,A193 B7,A193 L7,A193 B16,18-8 Stainless,A193 B8 Stainless (304),A193 B8M stainless(316), Monel, Alloy 20,Hastelloy,A453 Gr.660,Brass,Nylon,Silicon Bronze.
Structural Steel	Plates, Sections, etc.

Process Packages

- PSA Nitrogen Generation Package
- Chemical Injection Skids
- Fuel Gas Conditioning Skids
- Multiport Selector Manifolds

Rotating Equipment

- Pumps - Centrifugal, PCP, Dosing etc.
- Compressors - Centrifugal, Rotating
- Blowers

Instrumentation Items

- Gauges – Temperature, Pressure, Level
- Transmitters
- Temperature/Pressure Switches
- Instrumentation Fittings
- Instrument Valves

Electrical Items

- UPS Systems
- Cables
- Explosion Proof Lights and Fixtures
- Electrical Bulks

Lifting Items

- EOT Cranes
- Jib Cranes / Gantry Cranes
- Chain Pulley Blocks

Safety Items

- Coverall
- Shoes
- Helmet
- Gloves
- Masks
- Goggles

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