



Beyond engineering
fostering partnerships
that empowers to
shape the world



ارامكو السعودية
Saudi Aramco

Vendor Code
10114518

حديد
hadeed

Vendor Code
3000179

 www.gce.net.in

 gce@gce.net.in

OUR GLOBAL CLIENTELE



ABOUT COMPANY



GCE CONSULTING Engineers is an ISO 9001 Certified International multidisciplinary engineering Company & recognized industry leader in robust engineering services. We collaborate with clients across Petrochemical, Oil & Gas, Energy & Power, and Steel sectors worldwide, providing reliable and proven solutions that transform ambitious visions into tangible successes.



MAJOR INDUSTRIES SERVING & COUNTING

Petrochemical

Textiles

Oil & Gas

Steel &
Metal

Fertilisers

Cement

Infrastructure



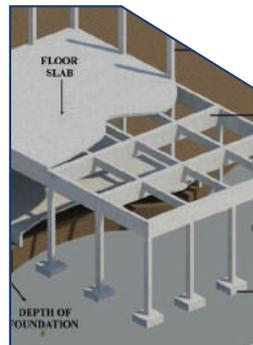
OUR SERVICES

CIVIL & STRUCTURAL DESIGN ENGINEERING

From robust foundations to complex structures, we ensure the stability and resilience of your project, meticulously adhering to industry standards.

Our Expertise

- All kinds of Steel Structure
- PEB Warehouse
- Pipe Rack
- Structural Reliability Assessment
- Heat Exchanger Steel Structure
- Greenfield projects
- Residential Structural Design
- Commercial Structural Design
- All kinds of concrete Structure
- All Types of foundation design
- Underground Concrete Pit
- Blast-resistant Design & Analysis
- Heat Exchanger foundation
- Brownfield projects
- Road Culvert Design
- Reinforcement Detailing



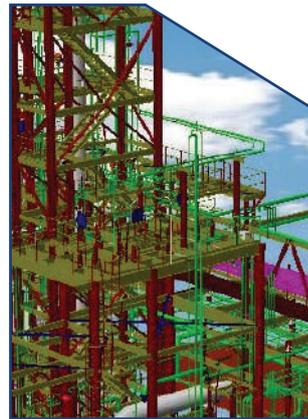
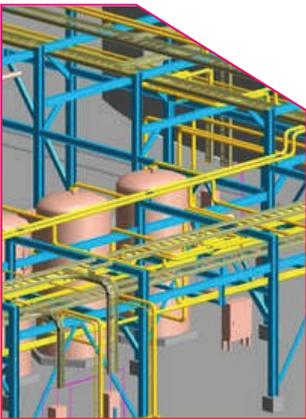
OUR SERVICES

PIPING/MECHANICAL ENGINEERING

We optimize piping systems and deliver flawless mechanical designs, catering specifically to your needs and project objectives.

Our Expertise

- Pipe Stress Analysis in Ceaser-II
- Piping Layout & Isometrics
- Piping Material Specification (PMS)
- Plant Design Management System (PDMS)
- Heat Exchanger Stress Analysis & Design
- P&ID Construction
- Fire Fighting System Installation
- Equipment Sizing
- Mechanical Drafting & Modelling
- Valve Datasheets



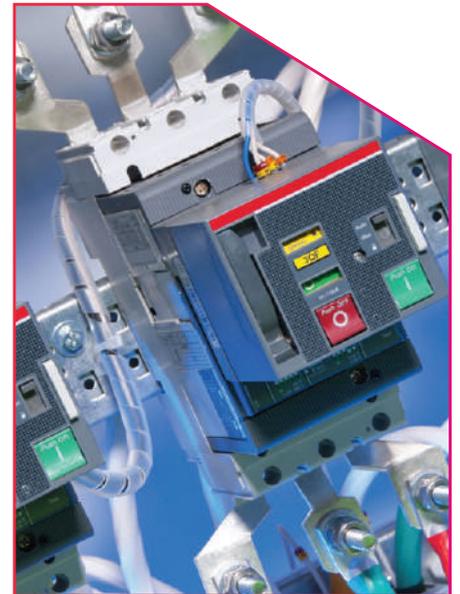
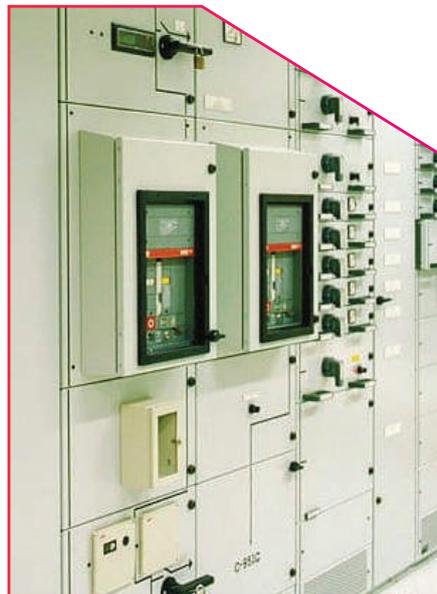
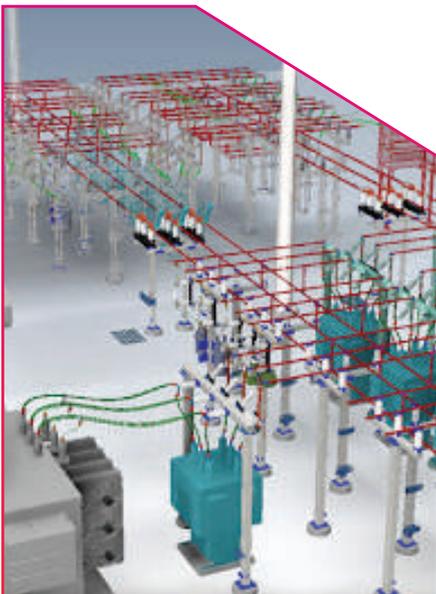
OUR SERVICES

ELECTRICAL ENGINEERING

Our comprehensive services include power system analysis, arc flash studies, and electrical design, ensuring smooth operation and optimal energy efficiency.

Our Expertise

- ETAP Analysis
- Power System Analysis
- Equipment Sizing & Design
- UPS systems
- Battery Banks
- Electrical Asset Management
- Arc flash Analysis
- Maintenance Strategy Development
- Load Flow Analysis
- Short Circuit Analysis
- Reliability, Performance
- Transmission Tower Design



OUR SERVICES

INSTRUMENTATION & CONTROL

Basic Technical specification, data sheet for Analyzer Shelter along with inside components, data sheet DCS system, marshaling panel along with its components, data sheet, Scheme for CCTV system.

Our Expertise

- Process & Instrumentation diagram
- Interlocks in Control philosophy Flow chart, logic diagram
- Flow chart, logic diagram Cause & Effect diagram
- Specification, data sheet of different local gauges, flow element, temperature element, transmitter, analyzer, PLC, DCS Smart P&ID
- Specification, data sheet for signal, control & power cable
- Specification, data sheet for Custody Transfer Metering System Conceptual block diagram
- Wake frequency calculation for Thermowell
- able interconnection block diagram
- Cable route drawing via tray or conduit JB writing drawing, JB Inter connection diagram
- Instrument loop diagram
- Instrument hook-up diagram with BOQ
- Flow Element, Control Valve, Pressure safety valve sizing calculation by Instru-Cal software



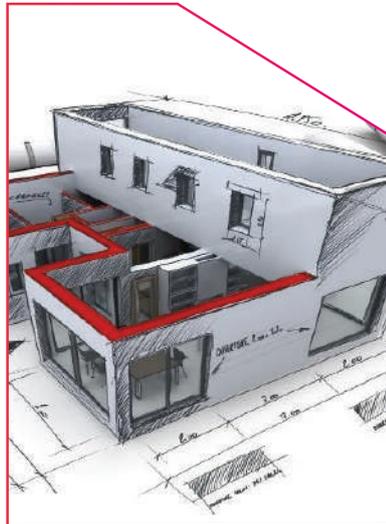
OUR SERVICES

ARCHITECTURAL

We expertly craft designs that meld functionality with aesthetics to bring your vision to life.

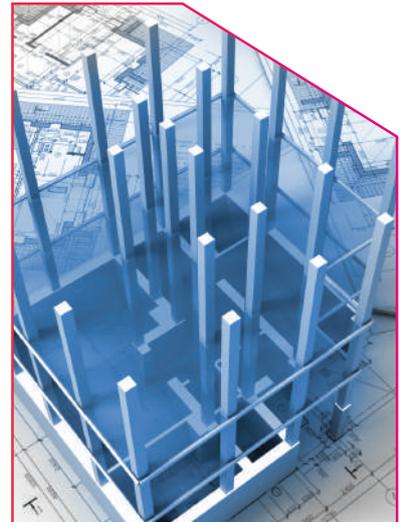
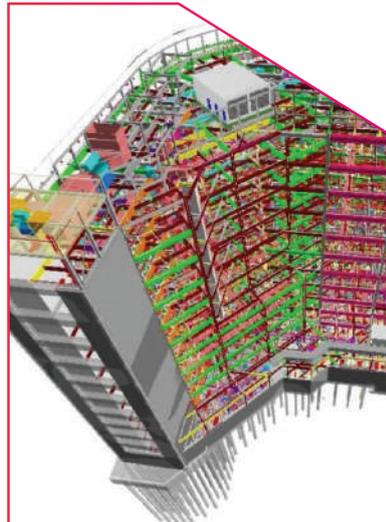
Our Expertise

- Drafting
- Planning
- Rendering
- Walkthrough
- Modelling



BUILDING INFORMATION MODELING (BIM)

We offer 3D, 4D, 5D, 6D & 7D BIM services to meet the requirements of clients along with supportive Infrastructure.



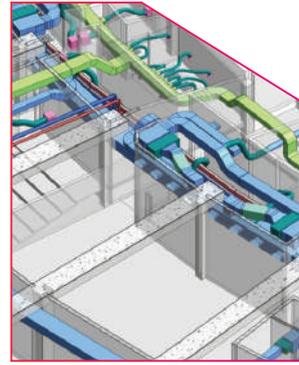
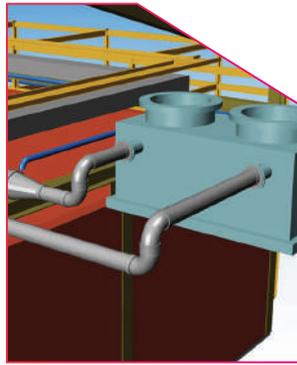
OUR SERVICES

HVAC

We have skilled, experienced and industrious HVAC team that designs, drafts and models heating & cooling systems meticulously.

Our Expertise

- HVAC Load Calculation
- HVAC Duct Layouts
- HVAC System Design
- High Side & Low Side
- HVAC Piping Design



PRE-ENGINEERING ESTIMATION & BIDDING

Pre-engineering estimation helps clients get clear idea of cost & scheduling to accomplish the project. We have expertise & experienced professionals who can use their talent to convert blueprints into accurate cost of construction

Our Expertise

- Pre-Bidding Engineering Design
- Quantity Estimation



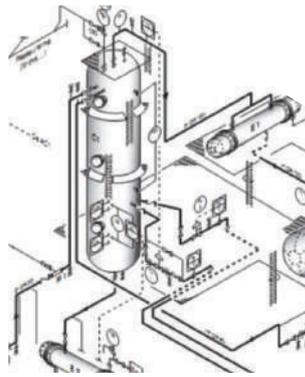
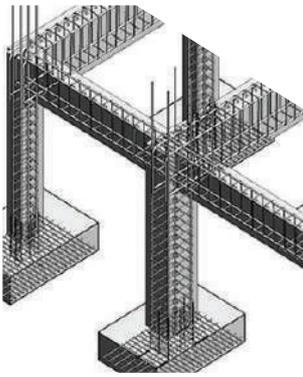
OUR SERVICES

DRAFTING & DESIGN SERVICES

Meticulous fabrication & erection drawings, concrete detailing, & 3D BIM modeling for exceptional accuracy and clear visualization using TEKLA , AutoCad , Microstation , Revit.

Our Expertise

- Fabrication & Erection Drawings
- Concrete Detailing
- Piping Isometrics
- Bar Bending Schedule



PROJECT MANAGEMENT

Infrastructure is the fundamental facility or service that serves a country & is necessary for it to function. Our Highly skilled & trained professionals offer infrastructure planning service to give unmatched service at affordable prices.

Our Expertise

- Construction Management
- Material Management
- Real Estate Project Management
- Man Power Management



OUR SERVICES

SUPPORT SERVICES

We offer ongoing support to help optimise the use of resources used in completing your project while keeping you in the loop.

Our Expertise

- Pre-Bidding Engineering Design
- Quantity Estimation



OUR TECHNOLOGY ARSENAL



STAAD.Pro



STAAD.Pro
ADVANCED



STAADPRO ADVANCED
FOUNDATION



RCDC
2023



ProStructures
CONNECT Edition



etap®



ProSteel
CONNECT Edition

SPI
software®



Tekla®



AUTODESK
REVIT



AUTODESK®
NAVISWORKS®



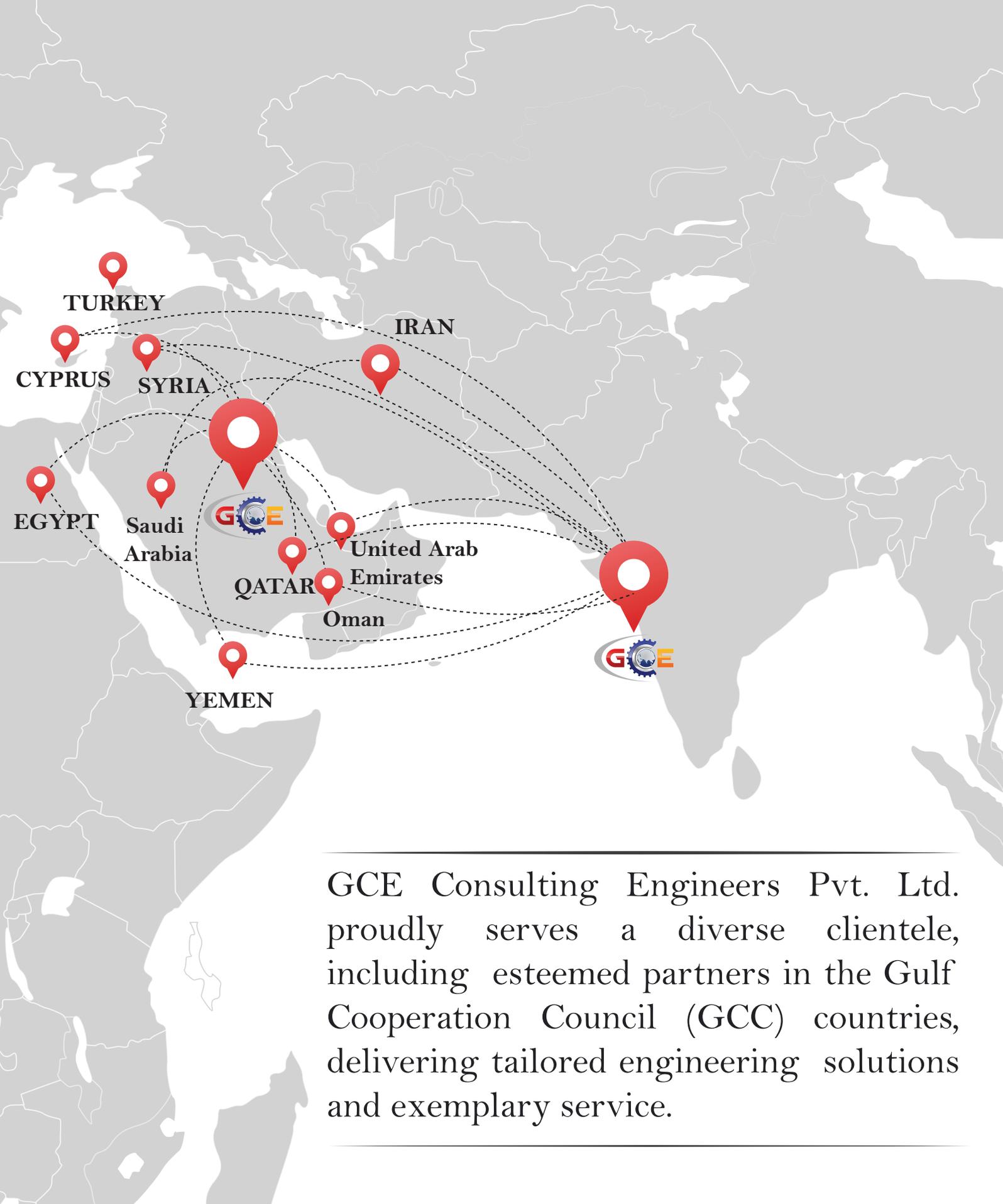
AUTODESK®
AUTOCAD®

CAESAR II®
Pipe Stress Analysis

PROJECTS COMPLETED

Engineering Project	Client	Engineering services
Structural analysis & design of Underground Concrete pit for installation of MOV's		Engineering & Drafting
Civil, Piping design for orientation of Motorized Valve and to reduce NRV Arm length- Structural modification		Design Engineering & Drafting
Civil foundation design for installation of new Heat Exchanger A/B with increased load		Design Engineering & Drafting
Structure load verification and design to install sky climber		Design Engineering
Design for 58 inch lifting flange		Design Engineering & Drafting
Fabrication drawing for Stair Tower to Lime Silo platform through Bag Filter		Fabrication, Erection drawing
Tank farm pipe support structure connection design and fabrication drawing		Fabrication, Erection drawing
Auditorium Gallery structure and foundation design & fabrication		Engineering & Drafting
Pipe Stress Analysis in CEASER-II for Streamer elimination in PHD bypass line-Yanbu Saudi Arabia		Pipe Stress Analysis
Pipe stress Analysis in CEASER-II for HDPE transfer line-Yanbu Saudi Arabia		Pipe stress Analysis
Pipe stress analysis in CEASER-II Upgrade EO Lines, CS Piping To SS304L		Pipe stress Analysis
Pipe stress analysis in CEASER-II for SABIC YANPET Shutdown JOB 2024		Pipe stress Analysis
Structural analysis & design of structure for adequacy check for new valve installation with 3 ton increased load -shutdown job 2024		Structural analysis
Structural design & electrical engineering for Steel warehouse with 20 Ton EOT crane shed		Design engineering
ETAP analysis for flash Arch SABTANK		Electrical engineering
Capacitor bank support structure Fabrication, foundation drawing		Fabrication, Erection, Foundation drawing
Preparation of Fabrication drawing for steel structure and roof sheeting		Fabrication, Erection drawing
Preparation of fabrication drawing for hand rail and entry gate of monkey ladder		Fabrication, Erection drawing
Pendulum Shear Drive Gear Box Base Structure Concrete foundation drawing		Foundation Drawing
Design, Fabrication & Erection for 24 and 42 inch lifting flange for gas seal	 	Engineering & Drafting
Structural Analysis & Design for 42" Pipe line No#10 Support-Yanbu Saudi Arabia		Structural Analysis & Design. Drafting in TEKLA
Detail engineering, Fabrication and erection drawing of pipe rack ISBL zone-E steel structure- Yanbu Saudi Arabia		Fabrication drawing, erection drawing, Connection design. Drafting in Tekla.
Detail engineering Fabrication and erection drawing Pipe support & Steel structure for installation of 2nd C2 cut dryer- Yanbu Saudi Arabia		Fabrication drawing, erection drawing, Connection design.
Preparation of Fabrication Drawing		Fabrication, Erection drawing
Modification Of Line-2 Circulation Water Lines- Noth region cement co.		Pipe Stress Analysis
Salt conveyor belt structure modification (In kind)	 	Engineering & Drafting
Design engineering of structure sway measurement		Engineering & Drafting
Passive defence system against Drone (barriers)		Engineering & Drafting
Structural detail engineering and fabrication / Erection drawing, for Deaerator 5-DA-3001A,APPC,Saudi		Fabrication, Erection drawing
Roof opening design + GA for replacing existing 3 MV motors- Qurayyah, KSA		Engineering & Drafting
Design and Drafting services for NIC facility PEB Buildings Civil works		Engineering & Drafting
Design & Drafting services for Erection of Transformer Shed		Engineering & Drafting
Structural design analysis & detail engineering fabrication & erection for Merchant TiCl4 building-Yanbu Saudi Arabia		Structural design analysis & detail engineering fabrication & erection drawing
Civil foundation design flooring and detail engineering drawing for Merchant building(via Expertise)- Yanbu Saudi Arabia		Civil foundation design, flooring and detail engineering drawing
Structural design and drafting in Tekla-new Plate exchanger-Yanbu Saudi Arabia		TEKLA Drafting for Erection and Shop drawing
Modification of SABIC LAB in KAUST-Saudi Arabia		Engineering services
Installation of Electric		Engineering services
Potable water line to safety bath at emergency isolation valve station in sales gas distribution network		Engineering services
Replacement of deteriorated bus duct outdoor housing for 4.16kv bus between transformers (sw-11, 12, 13 & 14) and Structural design Review for Heat exchanger E2522		Engineering services
transformers (sw-11, 12, 13 & 14) and Structural design Review for Heat exchanger E2522		Structural Design by STAADPRO and Drafting
Structural design of EDG structure and review of foundation		Structural Design by STAADPRO and Drafting
Structural Design & Analysis for Pipe rack		Structural Design
Merging of fire & gas system of dry end-II control room with wet end-II control room		Engineering
Structural Design and drafting of Car parking shed		Engineering
Upgrading PLC, HMI and installation / replacement of analyzer, instruments at IWTP-2 and SWTP-2		Engineering

Our Global Clientele



GCE Consulting Engineers Pvt. Ltd. proudly serves a diverse clientele, including esteemed partners in the Gulf Cooperation Council (GCC) countries, delivering tailored engineering solutions and exemplary service.



REACH OUT TO US

  +96 6534451695

 www.gce.net.in

 gce@gce.net.in