



engineering
the **future**

400+
ENGINEERS

750
PROJECTS

54000 SQ. FT.
INFRASTRUCTURE

SERVICES

Structural Steel Detailing
Rebar & Precast Detailing
Process Equipment Design & Detailing
Building Information Modelling (BIM)

ABOUT US

We provide

- ❑ Quality solutions & services for structural steel detailing, rebar & precast detailing, process equipment design & detailing, and Building Information Modelling (BIM).
- ❑ The productive way to manage detailing and trusted support for delivering your projects on time and error free.
- ❑ Highly efficient modelling & detailing solutions to help customers focus on core areas of their business and win more profitable projects.

Our Customers get access to

- ❑ Pools of skilled service teams
- ❑ Quality driven processes
- ❑ Highly evolved management systems
- ❑ Shared infrastructure
- ❑ Latest available techniques including cases, structural designs & detailed analysis for faster, accurate deliverables.

With our engineering services & solutions, we can be your strategic business partners help you increase profitability and fasten the project deliveries to end customers.

We can help you model, fabricate and erect structures faster and with better quality adhering to international standards.

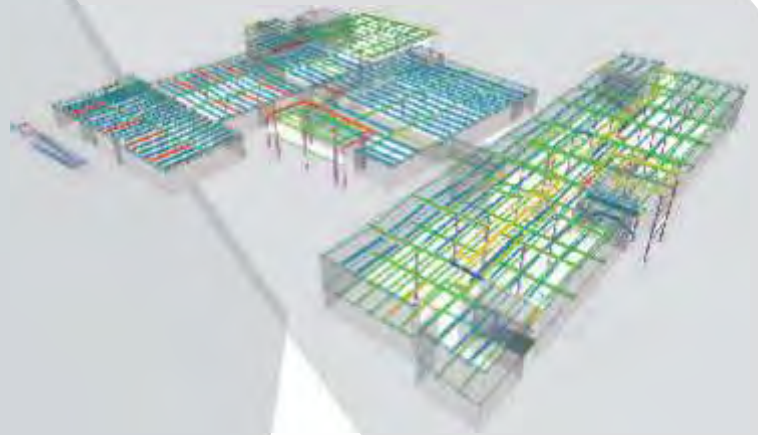
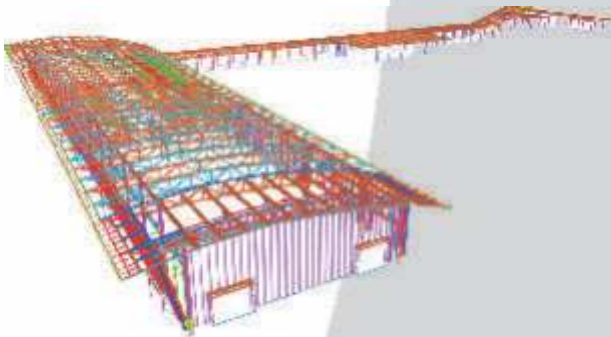
Continuous
Improvement
of Services &
Solutions

Practicing
Global Engineering
Standards

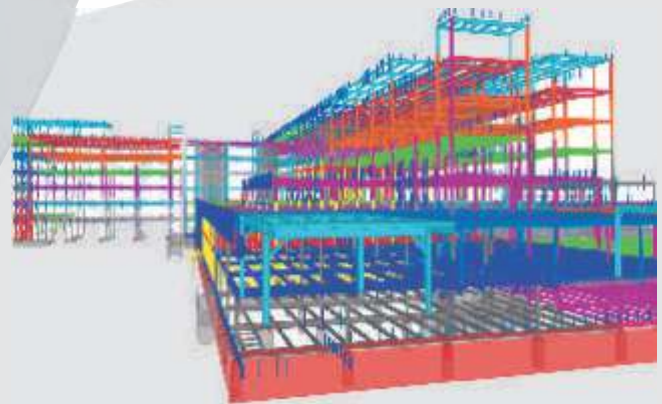
Discipline in
People & Thought

USA
JAPAN UK
IRELAND
AUSTRALIA
SAUDI ARABIA
NORTH AFRICA
MIDDLE EAST KOREA
EUROPE TURKEY
QATAR

Structural Steel Detailing



Rebar & Precast Detailing



REBAR CAD | CADS RC

**Process
Equipment
Design & Detailing**



PV Elite®
Etank
STAAD.pro



**Building
Information
Modelling
(BIM)**



**AUTODESK
REVIT**

APPLICATIONS

- ❑ Commercial Buildings
- ❑ Infrastructure
- ❑ Transport Buildings
- ❑ Medical, Healthcare
- ❑ Residential
- ❑ Agricultural
- ❑ Educational
- ❑ Public Utility, Non-Buildings
- ❑ Parking Structures & Storage
- ❑ Government Buildings, Civic, Security & Defense
- ❑ Military
- ❑ Industrial Structures
- ❑ Power Providers
- ❑ Process Engineering Equipments
- ❑ Religious Buildings
- ❑ Other Miscellaneous Structures

OUR PRESENCE

- ❑ Pan Gulf has established a strong foothold as a preferred engineering services provider in USA, UK, Ireland, Australia, Japan, Korea, Turkey, Saudi Arabia, Qatar, and other regions of the world.
- ❑ Our 14 years of strong local presence offers a guarantee of stability, security, proven cultural and linguistic knowledge, and an understanding of local contexts, essential for managing a project.
- ❑ International Sourcing Division of Pan Gulf deals in Trade & Export of Engineering Tools & Equipment, caters to broader spectrum of clients in Middle East, North Africa, and Europe region and enhance our capabilities as an Engineering Solutions company..

INFRASTRUCTURE, RESOURCES & CAPABILITIES

- ❑ ISO 9001 : 2015 Certified Company
- ❑ A team of more than 400 skilled professionals who can work with any structure or a design project regardless of material, size or complexity
- ❑ Robust, state-of-the-art infrastructure of 54000 sq. ft. comprising of 4 offices and delivery centres well-equipped with in-house library, training and conference rooms
- ❑ Understanding of fabrication processes, procedures, materials, costs, quality and industry codes
- ❑ Use of latest IT Systems, Modelling and Detailing Software Library
- ❑ Secured & safe access to electronic resources and databases like, Tekla, Tekla X-Steel, SDS/2, AutoCAD, STAAD-Pro, PV Elite, E-Tank, RebarCAD, REVIT, CADSR
- ❑ Building code standards such as ASTM, ACI, CRSI, AS and BS as per client specifications
- ❑ Delivered more than 750 projects ranging from 100 T to more than 20000 T
- ❑ A part of the renowned conglomerate Pan Gulf Holding, Saudi Arabia
- ❑ An associate network of equally efficient and certified vendors for different outsourced or managed engineering solutions (*asper requirement*)

PROCESS EQUIPMENT DESIGNING & DETAILING

www.pangulftech.com

MAJOR PROJECTS & FEATURES

PGT Deliverables

Design and Detailing of Process Equipment -

- ☐ Design Calculation
- ☐ G.A. Drawings
- ☐ Fabrication Drawings
- ☐ Nozzle Details
- ☐ Plate Layout
- ☐ As-built Drawings

Speciality Services

- ☐ Pressure Vessel Design & Analysis
- ☐ Tank Design
- ☐ SKIDS Design
- ☐ Heat Exchangers: cost effective, high precision heat exchangers designs services.

Software Used

CAD / CAE, E-TANK PRO

Key Benefits

- ☐ expert team of design engineers for pressure vessels
- ☐ Rich experience in process equipment design and detailing services.
- ☐ Customisation as per client requirement to match equipment specifications.
- ☐ Superior quality of workmanship
- ☐ Fabrication friendly, maintenance-free design to optimize the performance of the equipment

Applications

Storage Tanks, Tank farms, Cryogenic Tanks, Columns, Heat Exchangers, Pressure vessels, Spheres, Bullets, Silos, Receivers, Stacks, Chemical Injection Skids, and many more



Hawaiyah, Saudi Arabia



SHARQ III Expansion, Saudi Arabia



STRUCTURAL STEEL DETAILING

www.pangulftech.com

MAJOR PROJECTS & FEATURES

PGT Deliverables

- ❑ 3D Model and 2D Shop Drawings
- ❑ Erection Drawings for fabrication and erection of Industrial as well as commercial structures.
- ❑ Connection Design
- ❑ Structural dimensioning

Software Used

- ❑ Tekla, SDS/2

Key Benefits

- ❑ Simplified Drawings
- ❑ Accurate Detailing

Steel Detailing Applications

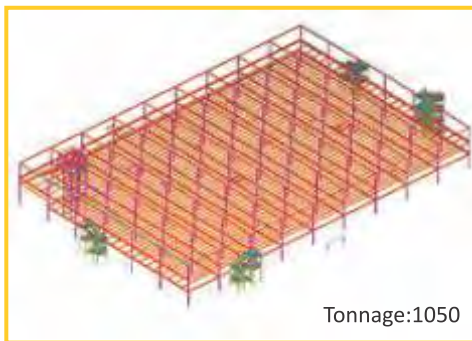
Commercial & Infrastructure Projects

- ❑ Airport Terminals, Heliport systems
- ❑ Museums – Theme Parks
- ❑ Sports Arena – Stadiums
- ❑ Defence projects
- ❑ Roads & Bridges
- ❑ Schools – Colleges – Training & Development Centres
- ❑ Hotels, Casinos, Spa & Therapy centres
- ❑ Hospitals, Healthcare, and Medical facilities
- ❑ Auditorium – Concert halls – Multiplexes
- ❑ Commercial buildings – shopping complexes – Corporate Offices

Industrial Projects

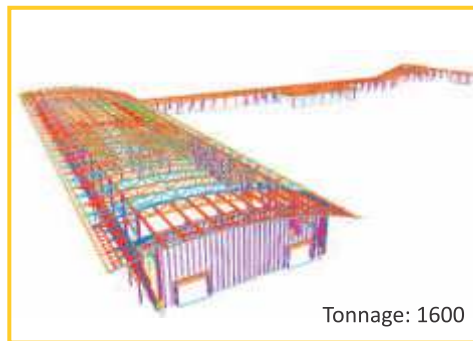
- ❑ Oil & Gas, Petrochemical refineries
- ❑ Plant structures / factories – industrial sheds
- ❑ Industrial conveyors

MULTIPURPOSE BUILDING



Tonnage: 1050

AIRPORT TERMINAL



Tonnage: 1600

WAREHOUSE



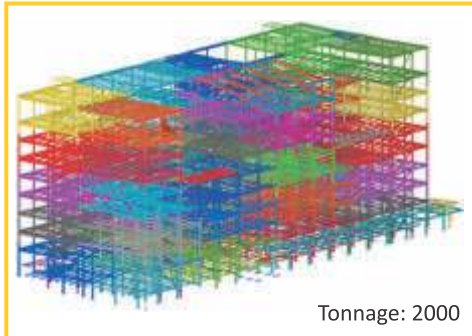
Tonnage: 11000

CONVEYOR SYSTEM



Tonnage: 3500

HEALTH HOSPITAL



Tonnage: 2000

INTERNATIONAL AIRPORT, ISRAEL



SPORTS ARENA



SOLAR THERMAL PLANT



REBAR DETAILING

www.pangulftech.com

MAJOR PROJECTS & FEATURES

PGT Deliverables

- ☐ Provide all aspects of rebar detailing process, including estimation, detailing and rebar 3D modelling.
- ☐ Provide accurate, complete and timely bar lists and placing drawings that maintain production schedules and maximize production capabilities.
- ☐ Shop/Placing Drawings
- ☐ A/E Design Drawings

Software Used

RebarCAD, REVIT, CADS RC

Key Benefits

- ☐ Legible, easy to understand drawings
- ☐ Accurate & error free information
- ☐ Project planning & scheduling
- ☐ Experienced Team

Rebar Detailing Applications

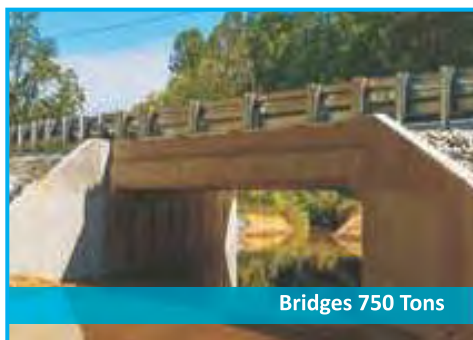
Commercial structure

- ☐ Foundations
- ☐ Rafts
- ☐ Flat Slabs
- ☐ Columns and beams
- ☐ Shear and retaining walls
- ☐ Concrete Masonry Units (CMU)
- ☐ Slab on Grade
- ☐ Elevator Pits
- ☐ Infrastructure structure
- ☐ Abutments
- ☐ Piers
- ☐ Approach and deck slabs
- ☐ Wing walls
- ☐ Crosshead beams

Industrial structure

- ☐ Footings
- ☐ Pedestals
- ☐ Ground Beams
- ☐ Slab on Grade
- ☐ Pit

STATE HIGHWAY, CALIFORNIA



STATE HIGHWAY 180, CALIFORNIA



RAPID BRIDGE REPLACEMENT PROJECT Pennsylvania, USA



SPORTS ARENA, DALLAS, TEXAS, USA



MUSEUM BUILDING, GIZA, EGYPT



BUSINESS SCHOOL, DUBLIN, IRELAND



COMMERCIAL BUILDING, UK



PRECAST DETAILING

www.pangulftech.com

MAJOR PROJECTS & FEATURES

PGT Deliverables

- ❑ Production of shop drawings
- ❑ Detailing of Precast Concrete elements
- ❑ Precast detailing drawings:
 - *Structural Design details*
 - *Concrete Shop Drawing*
 - *Fabrication Drawings*
 - *Detailed Concrete Connections*
 - *Detailed Schedules*
 - *Sketches*
- ❑ Precast fabrication and shop detailing
 - *Hollow Core Slab*
 - *StairCases*
 - *WallPanels*
 - *Flat Slab*
 - *Beams*
- ❑ Rebar & Precast Estimation
 - Preparing an estimate of the quantity of reinforcement steel that will be required in a project.
 - Provide structural General Arrangement drawings and the Reinforcement Detailing Instructions
 - Estimation Take off Report,
 - Simplified bending schedule
 - Preparation of bar bending schedule from a Rebar detail drawing

Software Used

- ❑ CADS RC ,Rebar CAD, Autocad, Tekla, Revit

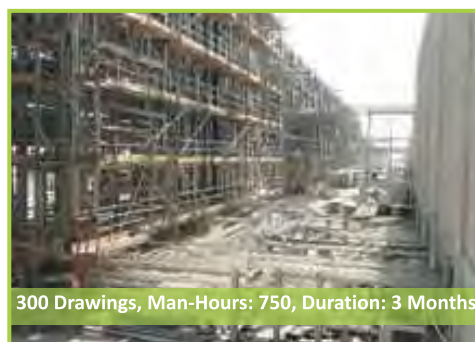
Key Benefits

- ❑ A professional team for precast detailing and related intricacies.
- ❑ Experience of working on Precast Concrete Structures
- ❑ Accurate estimates

Precast Detailing Applications

Multi-Level Residential Buildings, Commercial Structures, Airports,

SADARA PROJECT PIPERACK, SAUDI ARABIA



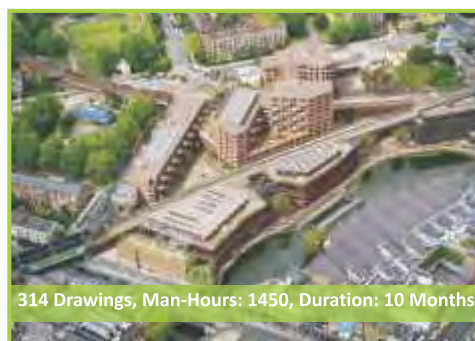
300 Drawings, Man-Hours: 750, Duration: 3 Months

EDUCATIONAL BUILDING, UNITED KINGDOM

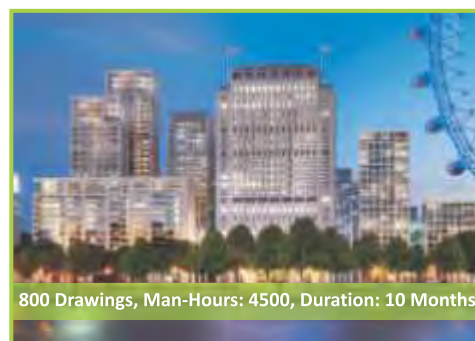


800 Drawings, Man-Hours: 1400, Duration: 10 Months

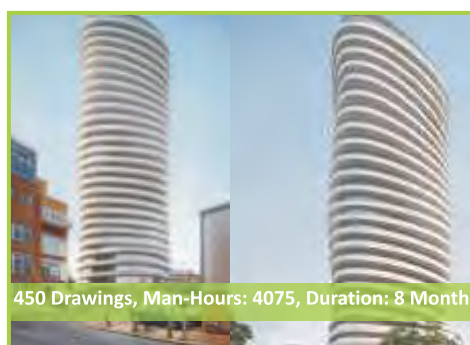
COMMERCIAL BUILDINGS



314 Drawings, Man-Hours: 1450, Duration: 10 Months



800 Drawings, Man-Hours: 4500, Duration: 10 Months



450 Drawings, Man-Hours: 4075, Duration: 8 Months

BUILDING INFORMATION MODELLING (BIM)

www.pangulftech.com

PGT DELIVERABLES

PGT'S BIM PHILOSOPHY

A complete loop to capture all practical aspects of a construction project from a BIM perspective.

LEAN



INDUSTRY BEST
PRACTICES



REDUCED
TIMELINES AND
OPTIMUM COSTS



EFFICIENT MODELING
METHODOLOGY

LATERAL



FLEXIBILITY TO DELIVER
NON-STANDARD
REQUIREMENTS



HIGHLY SCALABLE
AND INTEROPERABLE
SOLUTIONS

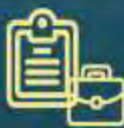


BETTER FUNCTIONALITY
CATERING TO INDUSTRY
DEMAND

TAILORED



CUSTOMIZED
SOLUTIONS AS PER
REQUIREMENTS AND
PRIORITIES



DETAILED
UNDERSTANDING OF
WORK FLOW AND
PROJECT STANDARDS



INTENT & SOLUTION
APPROACH

WHY DO YOU NEED THIS ?



EFFICIENT BIM
MANAGEMENT



BETTER SYSTEM
INTEGRATION



FASTER & ACCURATE
PROJECT DELIVERY

ARCHITECTURE



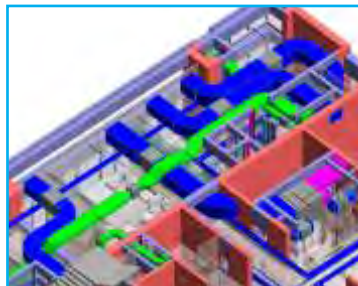
- Mass model / Conceptual model / Volumetric model
- Architectural BIM
- Construction Documentation
- Site modeling in Revit
- Interior mock-up
- Point cloud to BIM model

FACADE



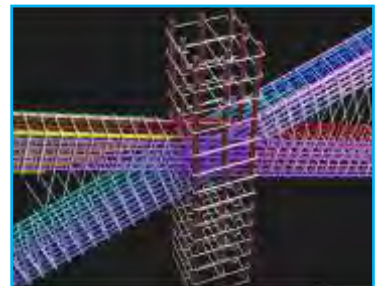
- Facade BIM
- Curtain wall / Aluminum cladding model
- Rendering / Presentation model
- Shop drawings

MEPF



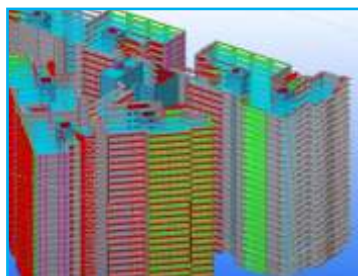
- MEPF BIM
- ASMEPF coordination
- Shop / As-built Drawings
- Mechanical room walkthrough
- BOQ / Quantity Take-off
- Construction sequencing

REBAR



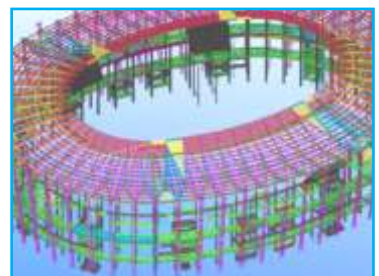
- Rebar model in Tekla, Revit, Rebar CAD 3D / CADS RC 3D
- Rebar coordination
- Rebar detailing
- BBS

PRECAST



- Precast model in Revit, Tekla
- Concrete Shop Drawings
- Fabrication Drawings
- Detailed schedules

STEEL



- Structural Steel model in Tekla, SDS2, Revit
- Shop Drawings
- Erection Drawings
- Anchor Bolt Drawings

FOR DETAILS, E-MAIL: BIM@PANGULFTECH.COM

VISIT : WWW.PANGULFTECH.COM

www.pangulftech.com



India

6th Floor, A Wing,
Lodha iThink Techno Campus,
Pokharan Road 2, Off Ghodbunder
Road, Thane(W) - 400607,
Maharashtra, India.

E. info@pangulftech.com
T. +91 22 6156 6256

USA

Pan Gulf Technologies
323 Dulles Avenue, Suite 105
Stafford, TX 77477

E. info@pangulftech.com
T. +1 832 615 3128

Saudi Arabia

Pan Gulf Tower, 4th Floor,
Corniche Road, Adjacent to
Sofitel Hotel, P. O. Box 2473,
Al-Khobar 31952 Saudi Arabia

T: +966 13 867 0444

