



THE ART OF
STEEL ENGINEERING...



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alfanar Steel is involved in the designing, engineering, fabrication and installation of steel structures for various kinds of infrastructures related to industrial and commercial structures, power generation, T&D, Communication systems and other miscellaneous steel products.

alfanar Steel takes an engineering approach to every job, instituting systems and using latest technology that ensure quality and cost efficiency. Attention to co-ordination, control and scheduling helps minimize waste and maximize output.

With our vast experience and backed by the trust of our customers, alfanar Steel has further resolved to go the extra mile in providing services of highest quality to our valued clientele, exceeding their expectations.



INDUSTRIAL/COMMERCIAL STRUCTURE

alfanar Steel has developed an outstanding reputation in providing industrial and commercial structures, such as Pre-engineered Steel Structure and Structural Steel. We are known for our dependable deliveries while maintaining very tight construction and maintenance scheduling while special care is given to offer a very competitive price. We design, engineer and fabricate steel structures for a variety of industries:



Industrial

- **Refineries**
- **Industrial Factories:**
Mezzanine structure & precast hangers, Steel plate layout and cable rolls, Structure Silo, hopper, continuous mill, conveyors, platforms, filter & glaze tanks etc
- **Cement plants:**
Plant de-dusting unit
- **Saline water pipe line:**
Heavy pipe supports and wall ducts
- **Steel Mills**

Building

- **Shopping Malls**
- **Multi-story buildings**
- **Theaters**
- **Metro Stations**
- **Warehouses**

Some of the special steel structures that we fabricate include:

- Fabrication & erection of steel supporting structures
- Parapets, shop fronts, publicity structures
- Travelator and crane beam support structure
- Bridge moulds and pre-cast molds and hangers
- Steel & stainless-steel tanks
- Terracotta steel frames
- Outdoor stair case, ladders and pipe supports.
- Car sheds and wall duct
- Architectural Displays

POWER GENERATION STRUCTURE



alfanar Steel is also involved in the fabrication and supply of Power Plant structures related to Outdoor turbine steel structure, generation room sheds, auxiliary room supporting structure and associated steel accessories.

Few of the Design, Fabrication & Erection Works for power generation structures include:

- Outdoor turbine and Generator room sheds
- Steel Structure for turbine area
- Steel Structure for Generator area,
- Auxiliary room, supporting structure
- Stack Supporting structure
- Turbine air intake duct support structure
- Maintenance walk ways
- Platform. Handrails etc.

TRANSMISSION & DISTRIBUTION STRUCTURES



alfanar Steel is an approved Saudi Electric Company (SEC) vendor for steel structure.

alfanar Steel designs and manufactures hot-dipped galvanized steel lattice structures for substations including switch yard structures, with or without earth switch.

alfanar Steel manufactures steel structures for:

Transmission lines

- 132 KV OHTL
- Dead End Towers

Substation Structures

- Gantries Towers up to 380 KV
- Surge Arrestors Supporting structures
- Post Insulators Supporting Structures
- Bird Screens
- Sunshades for Transformers
- Transformer Steel Gratings
- Substation Indoor & Outdoor supporting structures & catwalks etc.

COMMUNICATION & BROADCAST TOWERS

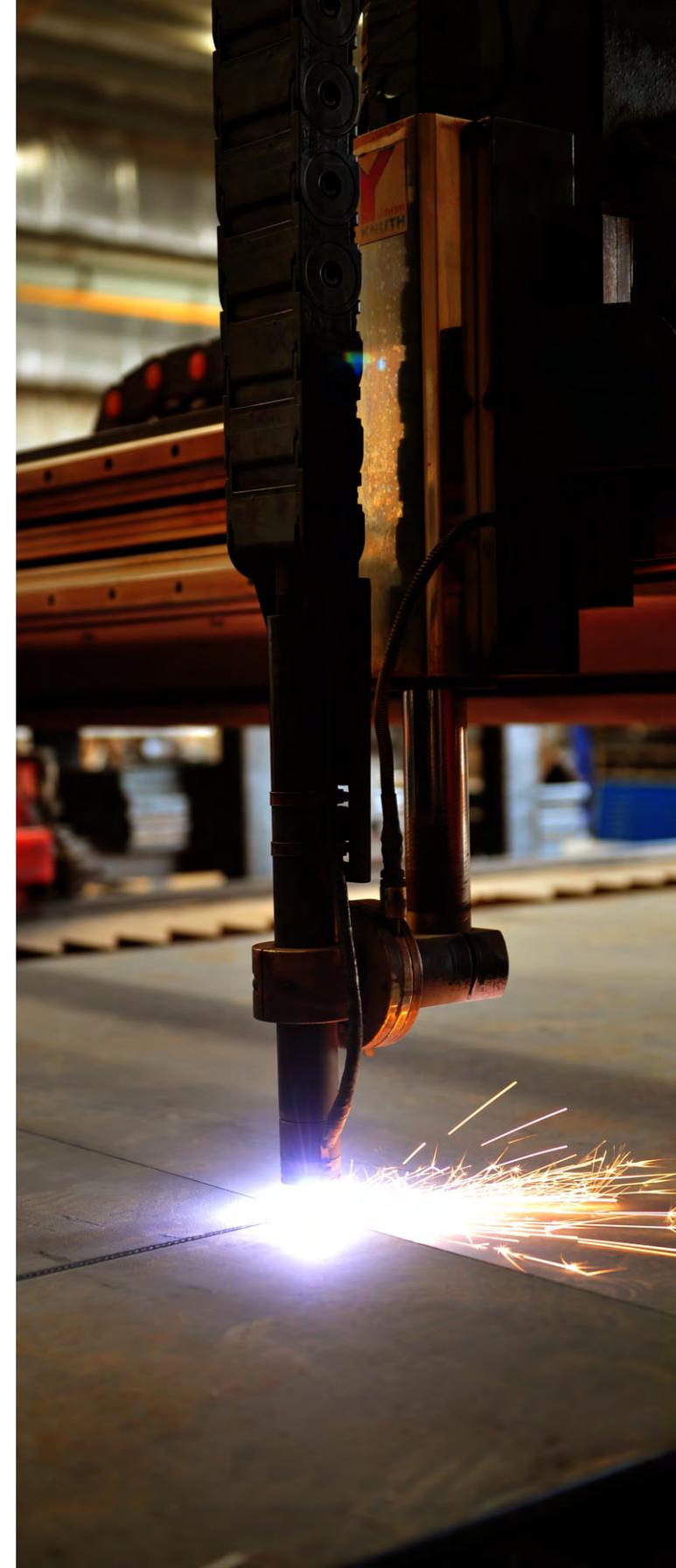


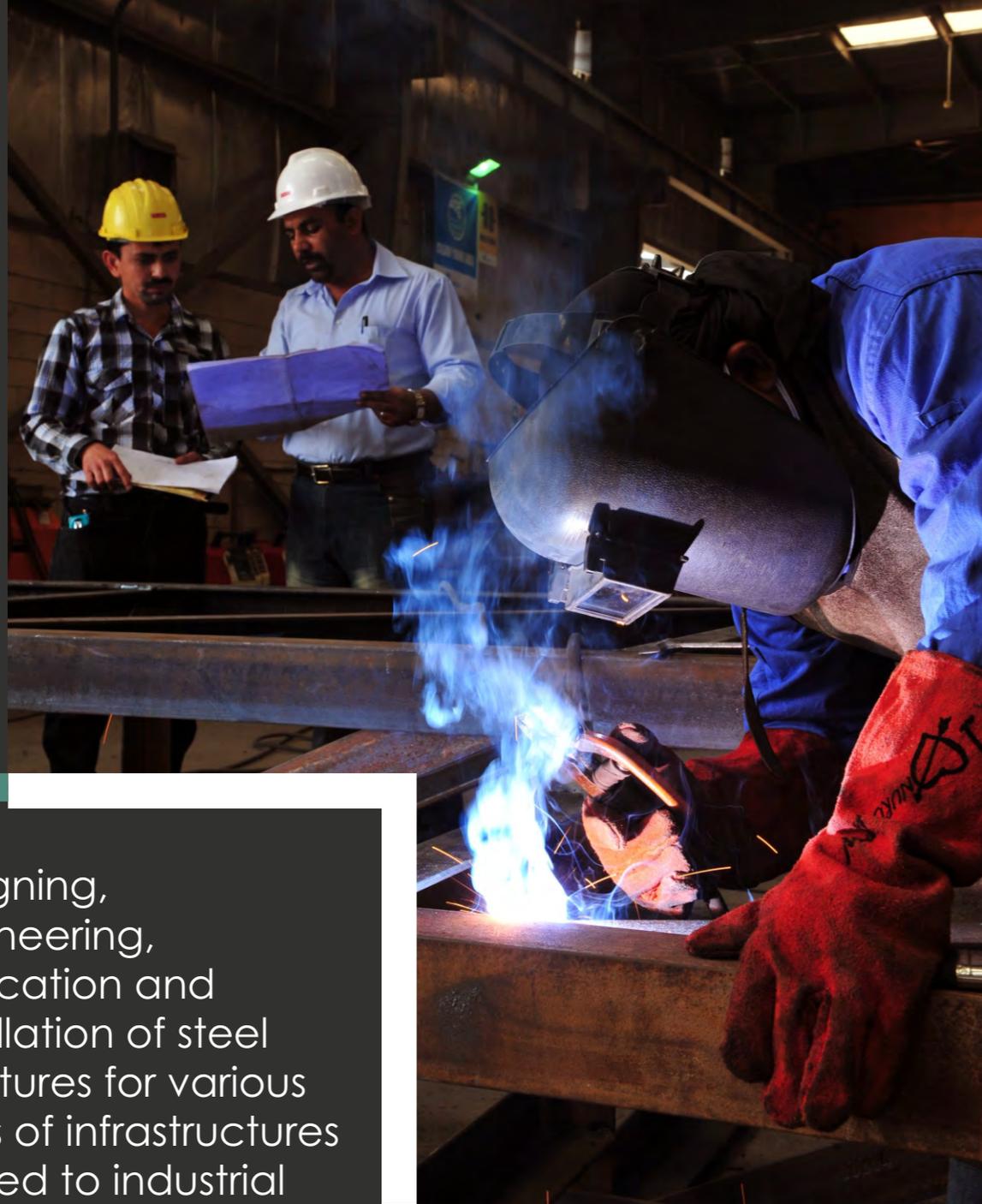
alfanar Steel is an approved STC (Saudi Telecom) vendor and have designing and engineering capability, supported by the fabrication unit.

We design, engineering & fabricate the Self Supporting Squared Towers & Non- Penetrating Strut Supported Square Tower (Greenfield, Rooftop, Heavy Medium & Light), using Guy mast & TS Tower latest versions of software.

Four-legged, light and medium duty self-supporting communication towers

- Rooftop, self-supporting non- penetrating cellular communication towers
- Fence system for GSM Tower Sites Earth Masts etc.
- Four leg self-supporting towers (light, medium & heavy)
- Security post and communication towers
- Roof top sheds
- All type of antenna mounting system
- Tower gantry and GSM fence systems
- Guide masts, tower extension and cable guide extension
- Railway electrification and Communication Towers





designing,
engineering,
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PRODUCTION

The production line is semi-automated and able to process both profiles and plates, using the latest CNC technology with a capacity of 40,000 MT/year.

Ensuring the fabrication as per client specification, offering to QC for inspection both internal and external.

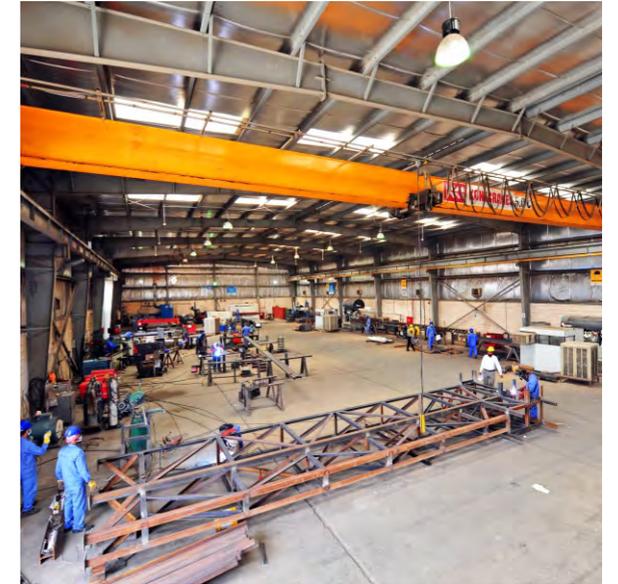
Production Department activities includes:

- Preparing Monthly production plan
- Drawing Study
- BOQ preparation
- Job Order issuance
- Manpower & machine allocation

Painting and galvanizing is also part of fabrication.

The development and production process is optimized by using advanced software WINSTEEL; and TURBO NESTING software is used for automatic nesting and offline programming of the CNC machines.

Timely and safe delivery to customers is our motto. We provide complete traceability and transparency of our products being dispatch by maintaining Packing List & delivery notes



PLANNING & MONITORING

The Planning department monitors and ensure the optimum utilization of resources. We are one of the very few companies to have introduced SAP for controlling and tracking the entire business process starting from PO receiving, job ordering issuance, designing & drafting of product, purchasing of the raw material, Manufacturing & fabrication, galvanizing or painting, packing and delivery.

Planning activities includes the following area, based on annual and quarterly basis

- Business Strategic Planning
- Capacity Planning
- Resource Planning
- Material Planning
- Procurement Planning
- Inventory & Safety Stock

Planning Monitoring activities include

- Budget allocations
- Cost Controls
- Planned verses actual Project Progress



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DESIGN & ENGINEERING

With capabilities ranging from designing, engineering, detailed fabrication and erection alfanar Steel undertakes complete projects or part of a project and executes them on a zero-error basis.

The full-fledged Engineering and Designing department comprises of highly experienced designers, who are equipped with the latest software facilitating them to design any complex projects.

Some of the software used in the designing process:

- Staad Pro- Analysis and Design
- Autocad- for 2D Detailing
- Tekla – Detailing Software
- PLS Tower- Tower Design Engineering Design Calculations include:
 - External load calculations
 - Loading tree
 - Analysis of towers

alfanar Steel also has technical collaboration with DAR Engineering for structural designing.

Codes & standards used for design and fabrication

- AISC - American Institute of Steel Construction
- AISI - American Iron and Steel Institute
- AWS - American Welding Society (D1.1)
- ASCE - American Society of Civil Engineers
- UBC- Uniform Building Code
- SBC- Saudi Building Code
- BMA



EQUIPMENT & FACILITIES

The manufacturing equipment comprise of complete range of steel fabrication machines including for angles, beams and PEB structures

Our facility is one of the most equipped facility with dedicated fabrication areas and the necessary infrastructure to handle upto 40000MT/year

The premises of alfanar Steel includes dedicated fabrication areas equipped with modern machineries including independent transformer, standby generators, compressed air supply system.

Material Movement:

For In-house Material transportation overhead cranes, forklifts, hand forklifts and carriage are used.

Galvanizing & Surface Treatment:

All chemical rescaling, sandblasting, painting and galvanizing jobs are outsourced to reliable subcontractors who meet our quality standards.

Ware house & Inventory Management:

alfanar steel have separate ware house to maintain minimum stock inventory for consumable items and critical spare parts for machines.

Quality Lab:

alfanar Steel steps ahead for to satisfy customer and QA, In-house Material inspection laboratory for quality assurance e of procure material. It includes UTM, Charpy test machine and Rockell hardness test machines mechanical properties analysis



WELDING

Our welding process strictly conforms to the guidelines set by the Structural Welding Code of the American Welding Society and as per the specifications of the American Institute of Steel Construction.

The highly-skilled welders of Steel undergo rigorous training at specialty training centers after which they are certified by independent certifying agencies.

Equipment available for welding & cutting are:

- Profile Cutting (Oxy Fuel Cutting with guide rails)
- Welding Machines (MIG & TIG)
- Spot Welding Machine

Machine Shop:

alfanar Steel is also equipped with variety of machines to facilitate the manufacturing process Lathes, shaper machines, Hack saws, surface grinders, cutting machines, Magnetic core drills , bench drills, hand tools, etc.

Die & Mould Shop:

alfanar Steel has an in-house development facility for making tools and dies to facilities production process.

It employs dedicated and experienced tool and die makers.



PEOPLE

alfanar Steel invests in the best manpower across the company based on our mission to deliver quality products and services, enhanced productivity and meeting our clients' objectives.

Our highly qualified engineers, installation specialist, CAD/CNC operators, machine operators and support staff are supported through continued best practice education and training, whilst the company is rewarded with loyalty and commitment to our business and clients.

alfanar Steel employs the best manpower in all spheres of its operations. we believe in the global fact that hiring, nurturing and retaining competent manpower are the most essential components for delivering quality products/services, enhancing productivity and achieving sustainable progress.

Training & Skill Development

We have a planned and structured series of learning experience to teach the employee skills and knowledge necessary either to meet performance standards of his job or improve current on-the-job performance. Training is provided through:

- On-the-Job
- Training New equipment /machine training
- Management skills training.



QUALITY & SAFETY

Alfanar Steel strongly believes in the 'Zero Error' production concept. We are certified for Quality Management System ISO 9001 : 2008

Quality at alfanar Steel means delivering only the best products and services to its customers. Each and every resource of the Company is channeled towards achieving this objective.

Due to the quality-driven and timely execution of its projects, Alfanar Steel enjoys excellent reputation with its clients and main contractors.

Safety is a key value to alfanar's work culture.

We maintain a spotless safety track record by virtue of our meticulous adherence to the highest safety norms demanded by the industry

CODES & STANDARDS
USED FOR DESIGN AND
FABRICATION

