STEEL STRUCTURES

100 % GURANTEED

- EQUIPMENT STEEL STRUCTURE & GANTR & GUARD MAST
- GRATING PLATE
- TRANSMISSION & TELECOMUNICATION TOWERS

DESIGN & ENGINEERING

With capabilities ranging from designing, engineering, detailed fabrication and erection persian sazeh 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
- Auto cad- for 2D Detailing
- Tekla – Detailing Software

-Tower- Tower Design Engineering Design Calculations include:

- External load calculations
- Loading tree
- Analysis of towers

Power ST 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 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:
Power ST have separate ware house to maintain minimum stock inventory for consumable items and critical spare parts for machines.

Quality Lab:
Power ST steps ahead for to satisfy customer and QA, Inhouse Material inspection l aboratory 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:

powerST also equipped with varity 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 :

powerST has an in-house development facility for making tools and dies to facilities production process. It employs dedicated and experienced tool and die maker

QUALITY & SAFETY

Safety is a key value to work culture. We maintain a spotless safety track record by virtue of our meticulous adherence to the highest safety norms demanded by the industry

Power ST strongly believes in the 'Zero Error' production concept. We are certified for Quality Management System ISO 9001 : 2008 Quality 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, enjoys excellent reputation with its clients and main contractors.

- Transmission lines

66 TO800 KV OHTL

Dead End Towers

er our customers a full-range-cum

-diverse product basket ranging

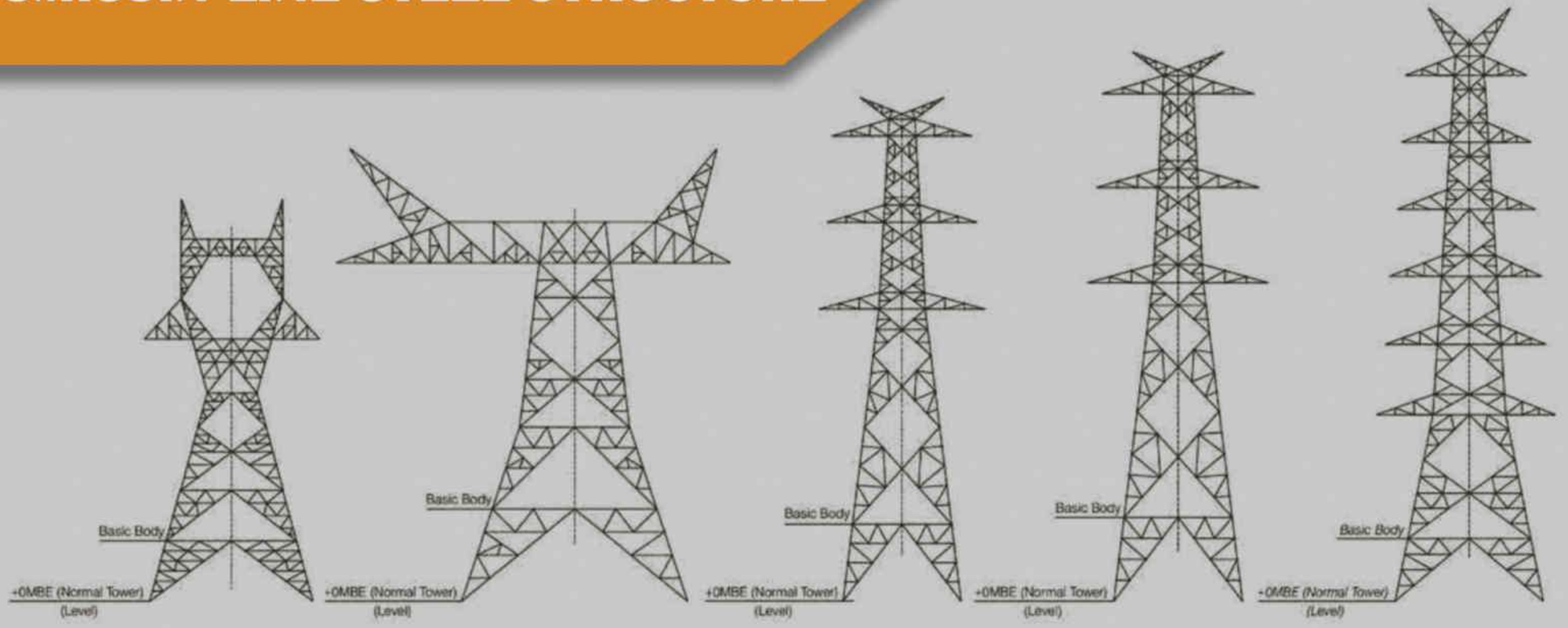
from 66kV to 800kV Towers

(Single Circuit, Double Circuit,

Multi-Circuit Towers suitable for

Twin, Quad)

TRANSMISSIN LINE STEEL STRUCTURE



765 kV S/C (Delta Config.) T/L | 800 kV HVDC T/L | 400 kV D/C T/L | 765 kV D/C T/L | 400 kV M/C T/L

Steel manufactures steel structures for:

Gantries Towers up to 400 KV

Surge Arrestors Supporting structures

Post Insulators Supporting Structures

Bird Screens

Sunshades for Transformers

Transformer Steel Gratings

Substation Indoor & Outdoor

supporting structures & catwalks etc.

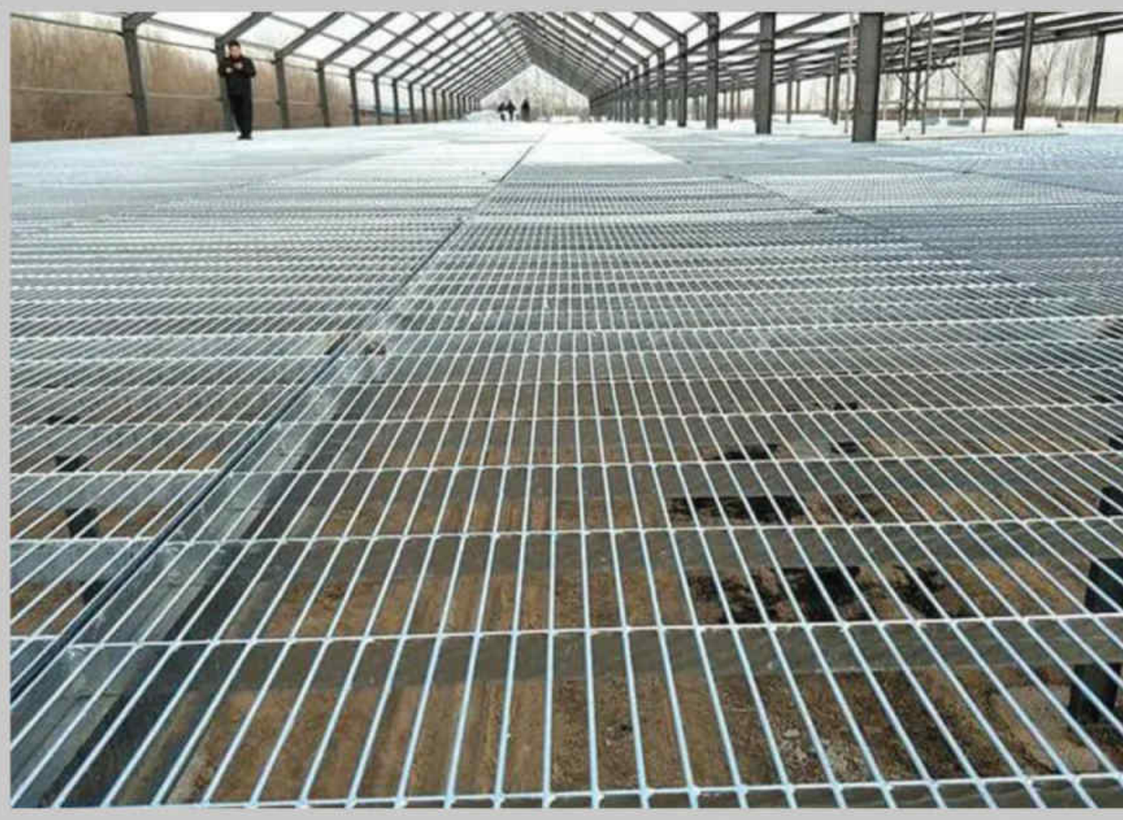
SUBSTATION STEEL STRUCTURE

Each AIS Substation has several steel structure parts like gantries and HV/MV equipment bases. Designing and manufacturing of such steel structures can be done in Towerist as well.

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

COMMUNICATION & BROADCAST TOWERS

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



GRATING PLATE

Riveted Grating Exceptionally durable grating manufactured by riveting bearing bars and bent connecting bars at their contact points.
Excellent for applications involving impact loads and repetitive traffic patterns.