



ESA GRADE LICENSED

ELECTROTECH TECHNOLOGY SERVICES

SUBSTATION AND TRANSMISSION LINE

 www.etts.in

Substation & Transmission Line DESIGN



Transforming Power, Electrifying Networks

We are specialized in Substation, Transmission and Distribution design. Our team of Engineers ensure reliable Power transfer, Minimal losses and grid stability. With a focus on safety and compliance, we tailor our designs to meet specific requirements by Optimizing Load Capacity & Fault Handling Capabilities, Embracing Technological Advancements and Integrate Smart Grid Solutions for a sustainable future.

Trust us for reliable Substation, Transmission and Distribution design that Powers Communities and Industries.

SUBSTATION Electrical

- Single line diagram with and without protection system
- System Study by **ETAP**
- Electrical Layout, Plan and Section Drawings
- Erection Key Diagram & Electrical Clearance Drawings
- Lightning Protection Design and Layout
- Cable Trench Layout and Tray Routing Drawings
- Lighting Design & Layout
- Short Circuit Force Calculation
- Earthing Design & Layout
- Cable and Conductor Sizing Calculations
- Equipment's Sizing Calculations
- Cable and Termination Schedule
- SAS/SCADA Integrations
- Vendor Drawing Review
- Specifications for OEM's



SUBSTATION Civil

- Equipment's Support Structure Design and Drawings
- Gantry/Tower/Joist Structure Design and Drawings
- Equipment's Foundation Design and Drawings
- Gantry/Tower/Joist Foundation Design and Drawings
- Power Transformer Foundation Design and Drawings
- Burnt Oil Pit Design & Drawings
- Road Design and Drawings
- Cable Trench & Culverts Design and Drawings
- Fence & Gate Design and Drawings



Substation Control Building

Civil Design

- Architectural Design & Drawings
- Structural Design & Drawings
- Cable Trench Design & Drawings

MEP Design

- Equipment's arrangement plan
- Lightning Protection Design & Drawings
- Cable Trench Layout and Tray Routing Drawings
- Electrical Layout and Plan
- Lighting Design & Layout
- HVAC Layout
- Plumbing Layout

| Transmission Line DESIGN |

Electrical

- Short Circuit Force Calculation
- Tower/ Pole Spotting
- Sag Tension Calculation
- Conductor Sizing Calculation
- Earthing Design and Drawings



Civil

- Tower/Pole Structure Design and Drawings
- Tower/Pole Foundation Design and Drawings

Power & Process Plant Electrical Designs

- Single Line Diagram and Switchgear Designs.
- Power Evacuation and Power Distribution Design
- Electrical Layouts, Cable Raceway, Earthing Layouts Etc.,
- E&I Cable schedule and Termination schedule.
- Illumination / Lighting Design and Detailed Engineering



OUR CLIENTS

SIEMENS

ABB

JSW

STERLING & WILSON



WABAG



पावरग्रिड

Power Grid Corporation of India

VOLTECH
EXCELLENCE IN ENGINEERING PRODUCTS & SERVICES



सेल SAIL

LARSEN & TOUBRO



**ENMAS
INDIA**

AREVA

ELECTRO TECH

Technology Services

**"POWERING
YOUR VISION
WITH PRECISION &
ILLUMINATING
THE FUTURE
TOGETHER!"**



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