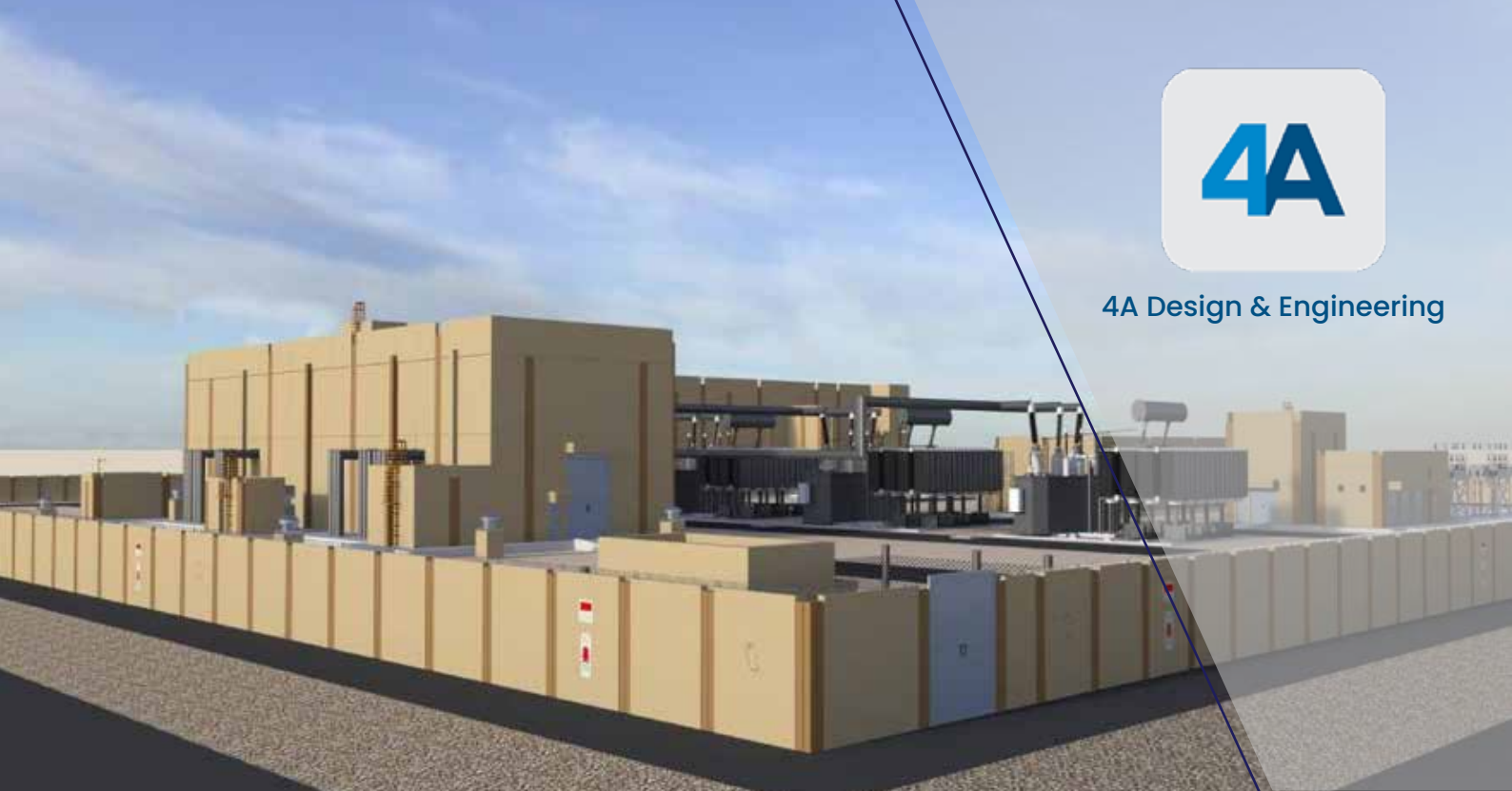




4A Design & Engineering



Founded in 2013 in India, 4A Design & Engineering Pvt. Ltd. is a trusted consultancy in power transmission, distribution, and infrastructure. As an approved consultant for the Saudi Electricity Company, we have successfully completed over 150 projects across the Middle East, Africa, and India, establishing ourselves as a reliable partner in delivering large-scale engineering solutions. Supported by a skilled team and a global engineering center, we provide comprehensive, end-to-end design and engineering services. Our focus is on innovation, regulatory compliance, and cost-effectiveness, ensuring the best solutions for each project. At 4A, we pride ourselves on delivering sustainable, value-driven results that meet the evolving needs of our clients, from concept to completion. ISO 9001:2015 certified, 4A Company delivers high-quality engineering solutions with a focus on collaboration, modern infrastructure, and long-term client relationships.

#### Disciplines

- Electrical
- Architectural
- Civil & Structural
- MEP
- Piping
- Instrumentation
- Telecom

#### Core Strength

- Collaborative culture
- Constant support till commissioning
- Modern infrastructure
- Repeat Clients

#### Substations

- Primary Engineering
- Secondary Engineering
- Panel Engineering
- Architecture
- Civil & Structural
- MEP
- 3D Model and BIM

## Power System Study

- Load Flow
- Short Circuit
- Transient Stability Analysis
- Protective Device Coordination

## Insulation Coordination Study

- Temporary Overvoltage
- Switching Overvoltage
- Fast Front Overvoltage
- Very Fast Transient Overvoltage
- Ferro-resonance

## Overhead Transmission

- Tower Design
- Foundation Design
- Tower/Pole Spotting
- Plan and Profile
- Fabrication Drawing
- Prebid Estimation

## Building


- Concept Study
- Architecture
- 3D Model & BIM
- Civil & Structural
- Drainage
- MEP

## Underground Cabling


- Initial & Final Routing
- Trail Pit & Joint Bay Detailing
- Bonding Schemes
- Detailed Route Drawing
- Route Profile
- Pulling Tension Calculation


## MEP

- HVAC
- Fire Alarm
- Plumbing
- Instrumentation
- Small Power
- Telecom

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