



# SYSTEM PROTECTION

Electrical Engineers & Consultants

Consulting | Installation | Testing | Maintenance

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# WE PROTECT.



**SIEMENS**



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# SERVICES

Demonstrating Industry Leadership since 2001

## Design & Consulting Engineering

- Electrical layout and system design including civil and electrical designs
- Tender engineering documents covering sizing, specifications, etc.
- Application and selection of relays and protective relaying schemes including verification for sensitivity and stability
- Power system analysis, short circuit and relay co-ordination studies, load flow studies, transient analysis, arc flash analysis, power factor improvement studies, earthing studies, etc.
- Thermographic studies, Harmonics measurement, analysis and mitigation techniques

## Repairing Solutions

- Relays of all types and makes, including all numerical relays
- Indoor and outdoor circuit breakers of all types and makes
- Battery chargers, UPS, testing equipments, panel related repairing, cable repairing

## Erection & Installation

- Transformers, HT & LT switchgear panels, earth pit & earthing, switchyard equipments
- Cable laying and termination, cable tray and similar fabrication work

## Staff Training

- On-site training for staff on Power System Protection and Maintenance practices
- Other tailor-made training modules for skill upgradation and education in industry best practices.

## Field Testing, Maintenance & Retrofit Solutions

- Testing, programming of relays of all types and makes like SIEMENS, ABB, Schneider, GE, SEL, Beckwith, NARI, etc.
- Testing and servicing/overhauling of indoor and outdoor circuit breakers of all types and makes like SIEMENS, ABB, Schneider, GE, Eaton, Jyoti, Kirloskar, CGL, etc.
- Testing of HT & LT switchgear panels, transformers, motors, bus-ducts, cables, etc.
- Testing and maintenance of switchyard equipments like LA, CT, PT, Isolator, CB, Transformer, etc.
- Complete health check-up and maintenance of indoor and outdoor switchgear/switchboard panels, RCP, etc.
- Diagnostic testing of cables, transformers, motors, generators, etc., preventive health check-up for panels and switchgears including thermography
- Testing and verification of distance, differential, REF and other protection schemes and systems as per As-Built drawings and specifications
- Retrofitting of relays and circuit breakers, upgradation and renovation of existing switchgears
- Cable fault location and related jobs
- Annual Maintenance and Annual Rate Contracts

## Capacity Augmentation & Test Kit Rentals

- Deputation of skilled engineering staff as per customer requirement
- Hiring/Rental of test equipments like : Omicron CMC 356, CT Analyser, ISA T1000+, Hisac Ultima, VIDAR, SA 30i, Tan Delta test set, etc.

## Operation & Maintenance

- Round-the-clock deputation of engineers and technicians
- Early restoration of system after breakdown, periodic checks and general maintenance

## Supply & Trading

- Supply of relays, circuit breakers, panels, test and measuring equipments
- Supply of circuit breaker spares, panel spares and obsolete spares