

18 YEARS OF EXCELLENCE
in service and commitment

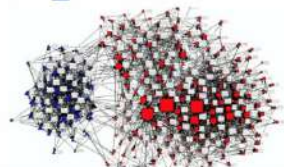
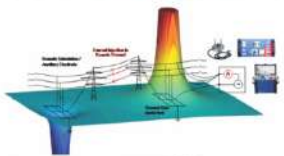
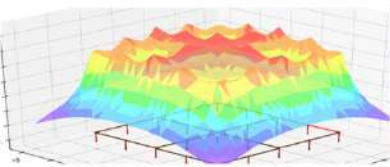
**VISION
POWER**

ANALYTICS PRIVATE LIMITED
Electrically Safe, Reliably Protected.

OUR SPECIAL SERVICES

- CDEGS based earthing detailed designs, review, and validation
- Study of complex grounding systems
- Earthing system health assessment studies
- Assessment of Touch & Step potential and transfer potential
- Assessment of earth loop impedance, adequacy of isolation devices for sizing and operation and equipotential bonding.
- Lightning protection designs acc. to IEC 62305
- Lightning protection risk assessment
- Lightning protection installation certification
- Lightning and shielding analysis for switchyards
- Commissioning support activities for earthing and lightning protection

- EMI studies for railways, metros, and data centers
- Assessment of safety due to EMI issues
- Analysis of AC corrosion effects on utilities such as pipelines, conductors, etc.
- EMI studies on signal and telecom lines due to HV OHL conductors
- Electrical and fire safety audit
- Power plant audit complying to (CEA Reg. schedule-IV)
- Distribution companies - safety audit complying to IS 14489-2018 (CEA Reg.)
- Training competency and skill mapping
- Root cause analysis and incident investigation
- Energy audit



ELECTRICAL SYSTEM STUDIES IN ETAP

- Load flow
- Short circuit
- Relay coordination
- Motor starting
- Harmonics
- Transient stability
- Arc flash
- Grid islanding

ELECTRICAL INSTALLATION REVIEW, VERIFICATION AND COMPLIANCE (CEA, NEC, LOCAL NORMS AND GUIDELINES)

- Design review
- Mandatory initial inspection
- Periodic verification of electrical installations
- Power measurement of electrical installations
- Thermography measurements of electrical installations
- Electrical failure risk analysis
- Hazardous area classification review

INSULATION COORDINATION STUDIES IN EMTP

- Transient over-voltage and TRV
- Lightning transients
- VFTO
- Back flash over
- BIL design for transmission line and substation equipment
- Surge arrester sizing and validation

POWER QUALITY STUDIES - IEEE 519-2022, IEC 61000-2-2, IEC 61000-2-4, EN 50160

- Harmonics
- Power factor
- Voltage dip/swells
- Transients
- Interruptions
- Events
- Waveforms
- Equipment failure RCA
- Trippings/malfunction RCA

VISION POWER ANALYTICS PRIVATE LIMITED

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