



Fire
&
Electrical Safety
Of
Industrial Facilities & Warehouses



Presented by

GREEN CIRCLE, INC.,

Integrated HSEQR Consulting Engineers, Scientists & Trainers

ISO 9001,14001 , OHSAS 18001 & NABL/ISO 17025 Certified Organization

(Ministry of Environment & Forests, India Approved Environmental Laboratory)

India

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Electrical Fire



Boiler Explosion



Plant & Storage Tank Fire



About us



We are end-to-end solutions organization with 8 Business Verticals supported by 130+ experts ,expertise & infrastructure , operating across India ,South East Asia , Middle East, Far East, Canada, Australia & Africa.

- Environmental Testing Laboratory
- EIA,EMP , Environmental Engineering & Consulting
- **Risk Management Consulting + Electrical Safety & Industrial Hygiene Services**
- Business Management Systems
- Asset Integrity & Management
- Cleaner Processes/Production & R&D
- Integrated Engineering Services (IES)
- Training & Seminars
- EPC/Turnkey Projects in Environment & Energy



Fire Safety-Consulting Services



- Fire Risk Assessment (FRA)
- Fire Audit
- Fire Load Calculation (FLC)
- Fire Adequacy & Efficacy Audit
- Fire Radiation & Explosion Study
- Gas Dispersion Analysis
- Quantitative Risk Assessment (QRA)
- Thermal Plume Analysis
- Fire Evacuation Plan
- Fire Safety Training
- Building Fire Risk Assessment



**Fire Risk
Assessment**

Electrical Safety –Consulting



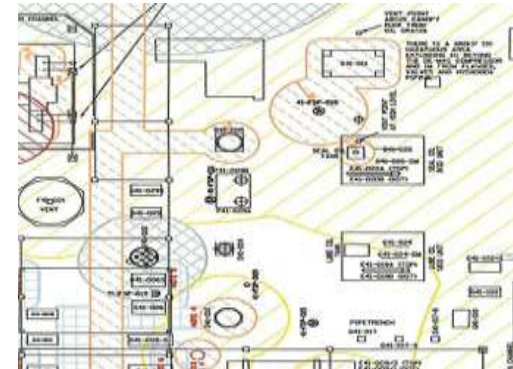
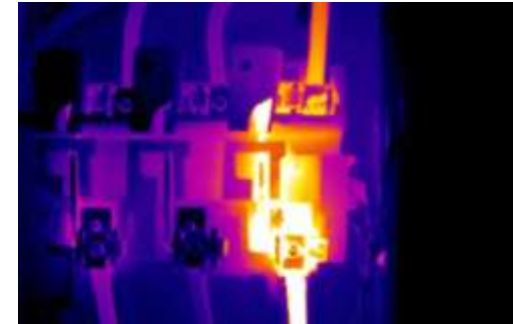
- Comprehensive Electrical Safety Audit (As per Indian Electricity Rules, 1956 and various Indian Standards)
- Electrostatic Charge Survey (As per IS 7689 & OISD 110)
- Thermography
- Electrical Calibration & Testing Services
- Electrical Maintenance Audit
- Static survey & control
- Preparation & Updating of Electrical Maintenance –Preventive /Scheduled/Productive-Maintenance & Condition Monitoring Plan
- Lightning Protection Survey (As per IS 2309, NFPA 780, OISD 180)
- Hazardous Area Classification (As per IS 5572, IEC 60079 – 10, ATEX & OISD 113)
- Risk Assessment of Electrical Installations(substations, switchyards, T&D, MCC & PCC Panels)



Electrical Safety-Consulting Services



- Electrical Design Safety Review
- Condition Monitoring
- Electrical HAZOP study (eHazOp/SaFOp)
- RAM Study (Reliability, Availability and Maintainability)
RCM (Reliability Centered Maintenance)
- RBM (Risk Based Maintenance) Study
- Life Cycle Assessment of electrical installations
- Arc Flash Analysis (NFPA 70 E)
- Short Circuit Analysis
- Electrical spares-storage, preservation & Manual
- Training Workshop for Shop floor to Managers on
Electrical Safety & Maintenance
& many more value added services



Warehouse –Fire & Electrical Safety



- Warehouse –Fire & Electrical Safety
- Inspections
- Thermography
- Bonding & earthing
- Wiring/cabling safety
- Storage goods safety
- Spillage & leakages
- Transportation /logistics safety
& many more value added services



Total Safety & Risk Management Solutions



Building Safety	Storage & Material handling practices	Fire Prevention & Protection
<ul style="list-style-type: none"> • Location & Layout • Accessibility • Neighboring hazards • Building stability • Natural Hazards 	<ul style="list-style-type: none"> • Review of Safe storage practices • Aisle space adequacy • Safety of Material handling equipments & Material Handling practices • Work injury prevention • Cylinder storage and handling practices 	<ul style="list-style-type: none"> • Identification of fire hazards • Review of fire prevention practices • Review of Fire Protection system – Active & Passive • Adequacy of fire protection system
Emergency Preparedness	Electrical Installations	Security System
<ul style="list-style-type: none"> • Review of Emergency Management Plan • Emergency Escape routes • Emergency lighting / Emergency Signage • First-aid facilities • Emergency Equipments 	<ul style="list-style-type: none"> • Identification of electrical hazards (shock, fire, overloading) • Review of electrical maintenance systems and practices • Review of earthing system • Review of Lightning protection system • Statutory compliance verification to Indian Electricity Rules 	<ul style="list-style-type: none"> • Review of existing security system • Intruder Alarm System • CCTV monitoring • Training and Selection of Security Guards • Equipments with Security guards

Clients



Gujarat State Petronet Limited (GSPL)



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Thanx



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