

LIST OF ELECTRICAL SERVICES PROVIDED

1. **Electrical Power Distribution Systems**
 - Design and installation of low and medium voltage power distribution
 - Substations and switchgear solutions
 - Circuit breaker and transformer design
2. **Lighting Systems**
 - Interior and exterior lighting design
 - Energy-efficient lighting (LED, smart lighting systems)
 - Daylight harvesting and control systems
3. **Backup Power Systems**
 - Design and installation of generators
 - Uninterruptible Power Supply (UPS) systems
 - Automatic Transfer Switches (ATS)
4. **Renewable Energy Systems**
 - Solar power systems design and installation (PV systems)
 - Integration of wind, geothermal, or other renewable sources
 - Energy storage solutions (battery systems)
5. **Building Management Systems (BMS) Integration**
 - Electrical system integration into BMS for centralized control
 - Automation of electrical systems for energy efficiency
6. **Electrical Load Analysis**
 - Load calculation and optimization for energy efficiency
 - Electrical system capacity assessments
 - Energy audits and power factor correction
7. **Fire Detection and Alarm Systems**
 - Design and installation of fire alarm systems
 - Emergency lighting and evacuation systems
 - Smoke and heat detection systems
8. **Security and Access Control Systems**
 - CCTV and surveillance system installation
 - Access control systems (biometric, key card)
 - Intrusion detection systems
9. **Data and Communication Networks**
 - Structured cabling systems for data and communication
 - Fiber optic network installation
 - Voice over IP (VoIP) and communication systems
10. **Smart Building Solutions**
 - Integration of smart technologies for automated building control
 - IoT-based electrical solutions
 - Smart grid systems and energy management
11. **Earthing and Lightning Protection Systems**
 - Design and installation of grounding systems

- Lightning protection system design and risk assessments

12. Electrical Safety Audits

- Safety audits and testing of electrical systems
- Compliance with local and international safety standards

13. Energy Management and Metering Systems

- Energy monitoring and reporting solutions
- Sub-metering for energy usage analysis
- Energy efficiency optimization strategies

14. Electrical Maintenance and Upgrades

- Preventive maintenance for electrical systems
- Retrofitting and upgrading aging electrical infrastructure
- Fault diagnosis and repairs