

JOB DESCRIPTION	
Job Title	Site Engineer - Electrical
Summary	The Site Engineer (Electrical) is responsible for the on-site supervision, coordination, and execution of all electrical works related to 33/66/220KV substations and associated transmission lines. This includes ensuring that projects are completed according to design specifications, quality standards, safety regulations, budget, and schedule. The role requires a proactive approach to identifying and resolving technical issues, managing site personnel, and maintaining effective communication with all stakeholders.
Experience	3 to 5 Years of Experience in - 33/66/220KV Substation & Transmission Work
Location	Project Sites (frequent travel and potential relocation on pan India sites)
Reporting To	Project Manager or General Manager
Key Responsibilities	<p>Project Planning & Preparation:</p> <ul style="list-style-type: none"> • Review and understand project specifications, drawings (SLD, layout, wiring diagrams, etc.), tender documents, and contracts. • Assist in the development of project schedules, work breakdown structures, and resource allocation plans for electrical works. • Participate in site surveys and assess site conditions to identify potential challenges and propose solutions. • Coordinate with the design team for clarification of drawings and technical specifications. • Assist in preparing method statements and work procedures for various electrical activities. <p>On-Site Execution & Supervision:</p> <ul style="list-style-type: none"> • Supervise and monitor all electrical installation activities including: • Substation Equipment like Power transformers, circuit breakers (SF6, Vacuum), disconnectors/isolators, current transformers (CTs), potential transformers (PTs/VTs), lightning arresters, surge arresters, control and relay panels, battery chargers, batteries, AC/DC distribution boards. • Switchyard Equipment: Erection of gantry structures, bus bars (flexible and rigid), insulators, earthing systems, cable trays, and trenches. • Cabling: Laying, termination, testing, and dressing of power cables (HT/LT), control cables, and communication cables. • Earthing & Lightning Protection: Implementation of comprehensive earthing grids and lightning protection systems as per standards. • Lighting Systems: Installation of internal and external lighting for substations. • Auxiliary Systems: Installation of HVAC, fire detection, and other auxiliary electrical systems within the substation. • Transmission Line Work: Supervision of tower erection, stringing of conductors, insulator stringing, earthing, and associated line hardware. statutory regulations, and client specifications. <p>Quality Control & Assurance:</p> <ul style="list-style-type: none"> • Witness and approve factory acceptance tests (FAT) and site acceptance tests (SAT) for various electrical equipment. • Oversee and perform pre-commissioning and commissioning activities, including continuity checks, insulation resistance tests,

	<p>earth resistance tests, primary/secondary injection tests, functional checks, etc.</p> <ul style="list-style-type: none"> • Maintain detailed records of all inspections, tests, and quality checks. <p>Health, Safety & Environment (HSE):</p> <ul style="list-style-type: none"> • Promote and enforce a strong safety culture on site. Report all incidents, accidents, and near misses to the appropriate authorities. • Ensure all electrical works are carried out in strict adherence to company HSE policies, national regulations, and client safety requirements. • Conduct regular safety briefings, toolbox talks, and risk assessments. • Monitor and ensure the proper use of personal protective equipment (PPE) by all personnel. • Identify and mitigate potential electrical hazards, working at height risks, and other site-specific risks. <p>Material Management:</p> <ul style="list-style-type: none"> • Coordinate with the procurement team for timely delivery of electrical materials and equipment. • Inspect incoming materials for quantity, quality, and compliance with specifications. • Ensure proper storage, handling, and preservation of electrical equipment and materials on site. • Monitor material consumption and reconcile with project requirements. <p>Documentation & Reporting:</p> <ul style="list-style-type: none"> • Maintain accurate and up-to-date site records, including progress reports, daily diaries, material inward/outward registers, test reports, and quality inspection reports. Prepare and submit project progress reports to the Project Manager/Construction Manager. • Assist in the preparation of as-built drawings and documentation. Document any deviations, variations, or change orders and communicate them to the relevant parties.
Edu. Qualifications	B.E Or Diploma Electrical Engineering
Technical & Management Skills	<ul style="list-style-type: none"> • Ability to plan, organize, and prioritize work effectively • Leadership • Site construction • Vendor & Contractor engagement • Testing and commissioning • Strong understanding Power system components and their operation • Proficient in electrical single line diagrams, control schematics, layout drawings, and cable schedules. • Familiar with electrical testing e.g., insulation resistance, continuity, primary/secondary injection, tan delta, SFRA. • Conversant with Indian and international electrical codes and standards.
Computer Skills	<ul style="list-style-type: none"> • MS Word, Excel, Power point, MS Projects
Skills (Optional)	<ul style="list-style-type: none"> • AUTOCAD • PRIMAVERA P6

JOB DESCRIPTION	
Job Title	Site Engineer - Civil
Summary	Experienced Civil Engineer with 3-5 years of dedicated site experience in the construction of 33 KV to 220 KV substations and switchyards, overseeing and executing all civil works components on complex power infrastructure projects, site supervision, quality control, progress monitoring, and ensuring strict adherence to project specifications, safety protocols, and regulatory requirements, Expertise includes earthwork, foundation pouring (for equipment like transformers, circuit breakers, gantries), structural erection, cable trenching, drainage systems, fencing, and control room building construction etc.
Experience	3 to 5 Years of Experience in - Substation & Switchyard Construction (Up to 220KV)
Location	Project Sites (frequent travel and potential relocation on pan India sites)
Reporting To	Project Manager or General Manager
Key Responsibilities	<ul style="list-style-type: none"> • Directly supervise and manage all on-site civil construction, including earthworks, concrete foundations (equipment, control building, trenches), structural erection, and drainage. • Interpret complex civil engineering drawings and specifications accurately on site. Identify discrepancies and resolve with design team proactively. • Ensure strict adherence to quality standards through regular site inspections, material testing (concrete, soil), and dimensional checks. • Implement and enforce rigorous site safety protocols, conducting toolbox talks and risk assessments. • Track and report daily progress, identifying and resolving site-specific issues to maintain schedule and budget. • Coordinate effectively with all site teams (electrical, mechanical, subcontractors) for seamless project execution. • Maintain comprehensive site documentation and as-built records.
Edu. Qualifications	B.E Or Diploma Civil Engineering
Technical & Management Skills	<ul style="list-style-type: none"> • Ability to plan, organize, and prioritize work effectively • Leadership • Site construction • Vendor & Contractor engagement • Testing and commissioning • Proven site-based experience in 33/66/220KV substation/switchyard civil construction. • Proficient in Civil drawings and calculations. • Familiar with Civil work testing e.g., Soil testing etc. • Conversant with Indian and international electrical codes and standards.
Skills (Optional)	<ul style="list-style-type: none"> • AUTOCAD • PRIMAVERA P6

JOB DESCRIPTION	
Job Title	Quality Engineer - Electrical
Summary	A highly experienced and technically proficient Electrical Engineer to lead and execute all inspection, testing, and commissioning activities for 33/66/220KV and associated voltage level electrical equipment, substations, and switchyards.
Experience	5 to 8 Years of Experience in - 33/66/220KV Substation Inspection & Commissioning
Location	Project Sites (frequent travel and potential relocation on pan India sites)
Reporting To	Project Manager or General Manager
Key Responsibilities	<ul style="list-style-type: none"> • Develop detailed testing and commissioning plans, schedules, and procedures 33/66/220KV substations and switchyards. • Conduct comprehensive pre-dispatch inspections (PDI) at manufacturer's works and material receipt inspections (MRI) at site for all electrical equipment, including Power Transformers, Circuit Breakers (SF6/Vacuum), Isolators/Disconnectors, Current Transformers (CTs), Voltage Transformers (VTs)/Capacitive Voltage Transformers (CVTs), Lightning Arresters (LAs), Control & Relay Panels (CRPs), Marshalling Kiosks, and switchyard bus bar systems etc. • Supervise and inspect the erection and installation of all electrical equipment, ensuring strict adherence to approved engineering drawings, schematics, manufacturer's guidelines, and project specifications. • Verify proper cabling, earthing, grounding, and lightning protection systems as per design and relevant standards. • Review and approve as-built drawings and documentation related to electrical installations. <p>Testing & Commissioning:</p> <ul style="list-style-type: none"> • Lead and supervise the site testing of all primary and secondary equipment (Insulation Resistance (IR), Polarization Index (PI), Tan Delta (Dissipation Factor), Winding Resistance, Transformer Turns Ratio (TTR), Magnetic Balance, SFRA for transformers, Contact Resistance, Timing tests, Trip/Close Coil resistance for Circuit Breakers, Isolators testing, Ratio and Polarity tests for CTs/VTs, Functional testing of all Protective Relays (Overcurrent, Earth Fault, Differential, Distance, Transformer Protection, Bus Bar Protection, etc.) using modern relay testing kits. • Testing of Control and Annunciation schemes, SCADA/Substation Automation Systems (SAS), and communication interfaces. • Battery bank and charger testing, AC/DC auxiliary system checks, Cable testing (EHV/HV/LV power and control cables). <p>Communications:</p> <ul style="list-style-type: none"> • Coordinate with internal teams, client representatives, equipment suppliers, and statutory bodies for joint inspections and clearances. • Troubleshoot and resolve complex electrical issues encountered during testing and commissioning. • Prepare and submit comprehensive test reports and commissioning protocols. <p>Documentation & Reporting:</p> <ul style="list-style-type: none"> • Maintain detailed records of all inspection findings, test results, and commissioning activities.

	<ul style="list-style-type: none"> • Prepare and submit daily, weekly, and monthly progress reports related to electrical inspections and commissioning. • Develop and update pre-commissioning checklists, test formats, and commissioning reports. • Ensure all documentation required for regulatory approvals and project handover is complete and accurate.
Edu. Qualifications	B.E Or Diploma Electrical Engineering
Technical & Management Skills	<ul style="list-style-type: none"> • Familiar with latest industry trends, technologies, and best practices in high-voltage substation and switchyard equipment. • Possess strong knowledge of relevant Indian and international standards (e.g., IS, IEC, IEEE, CBIP manuals, CEA Guidelines, IE Rules). • Proven hands-on experience with testing of various primary equipment and secondary equipment. • Strong theoretical and practical knowledge of protection schemes, control circuits, and power system operation. • Familiar with various test equipment i.e. Megger, TTR kit, Tan Delta kit, SFRA kit, Circuit Breaker Analyser, Relay Test Kits. • Strong Understanding of electrical safety standards and procedures. • Proficient in interpreting electrical schematics, single-line diagrams, wiring diagrams, and equipment manuals. • Leadership • Vendor & Contractor engagement • Testing and commissioning • ETAP
Computer Skills	<ul style="list-style-type: none"> • MS Word, Excel, Power point, MS Projects
Skills (Optional)	<ul style="list-style-type: none"> • AUTOCAD • PRIMAVERA P6