

ABHISHEK KUMAR PATEL

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Satna Madhya Pradesh India

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PROFESSIONAL SUMMARY

Electrical Engineer with 3+ years of experience in hydropower, steel plant maintenance, and power system studies. Experienced in ETAP, SKM, and CYME for load flow, short circuit, arc flash, and relay coordination studies. Successfully handled 600MW hydropower electrical systems, HT/LT panels, transformers, and preventive maintenance activities. Focused on improving system reliability, reducing downtime, and ensuring electrical safety compliance.

PROFESSIONAL EXPERIENCE

Field Electrical Engineer

Jaypee Group-600MW Hydropower Project Bhutan

23-12-2025 - present

- Worked on hydropower plant electrical systems including generators, transformers, switchgear, protection, and auxiliaries.
- Selected transformer kVA based on load calculation and future requirements.
- Handled installation, testing, commissioning, and maintenance of HT/LT panels and transformers.
- Performed preventive and breakdown electrical maintenance such as inspection, cleaning, tightening, insulation checks, and fault rectification.
- Improved **power factor** using capacitor banks/APFC panels and calculated UPS/inverter battery capacity.
- Operated and troubleshot AC & DC drives, motors, and control circuits.
- Inspected circuit breakers, cables, motors, and control panels, recorded field data, and supported corrective actions.
- Prepared and reviewed SLDs using AutoCAD and coordinated with teams while following electrical safety standards and LOTO procedures.

Designation: Electrical Engineer (Power system study)

Trident Techlabs LTD Pune

Nov 2023 – Nov 2025

- Utilized ETAP and SKM power tools software for feeder sizing, transformer rating calculation, cable sizing, and detailed power system studies.
- Performed comprehensive power system studies including Load Flow, Short Circuit, Demand Load, Arc Flash Analysis, and Relay Coordination using SKM and CYME.
- Executed feeder sizing based on transformer capacity, cable ampacity, and circuit breaker ratings to ensure system reliability and safety.
- Conducted relay coordination studies and finalized circuit breaker protection settings as per project requirements.
- Developed electrical schematics, single line diagrams (SLD), and system layouts using industry-standard design tools.
- Visited project sites to collect technical data and validate system parameters for accurate simulation studies.
- Involved in basic and detailed engineering studies for new and existing power networks.
- Prepared detailed technical reports for power system studies with safety compliance recommendations.
- Conducted case studies for network expansion and load growth planning.
- Ensured compliance with electrical safety standards and industry best practices.

Designation: Junior Electrical Maintenance Engineer

Kalyani steel ltd Pune

Mar 2023 – Oct 2023

- Performed preventive and breakdown maintenance of motors, transformers, control panels, MCCs, VFDs, PLC systems.
- Maintained records of maintenance activities and safety compliance checks.
- Responsible for the electrical maintenance of machines, and power systems in the Steel Melting Shop.
- Coordinated with production teams during shutdowns and scheduled maintenance.

- Field work (light connection, pole light, fan connection, field motor connection etc).

EDUCATION

- Bachelor of Technology (B.Tech) – Electrical Engineering
AKS University Satna, Madhya Pradesh (Graduation Year: 2022)
- Higher Secondary School Certificate (HSSC) (March-2018) 51%
Madhya Pradesh state board
- Secondary School Certificate (SSC) (March-2016) 64%
Madhya Pradesh state board

TECHNICAL SKILLS

- ETAP
- SKM Power Tools
- AutoCAD Electrical
- Relay Coordination
- Arc Flash Study
- Load Flow & Short Circuit Analysis
- Transformer & Cable Sizing
- Circuit Design

STRENGTHS

- Hardworking, continuous learning, skill development.
- Strong inter personal & communication skill.

LANGUAGES

- English
- Hindi

PERSONAL DETAILS

Date of birth :- 25/01/2002

Language knows :- Hindi, English Nationality: Indian

Hobby: Traveling

Marital status: Unmarried

DECLARATION

I hereby declare that the above information given by me is true to the best of my knowledge and belief.

Date:

Place: Bhutan

(Abhishek kumar patel)