

ELECTRICAL ENGINEER MAINTENANCE & TESTING

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Name & Personal Details of clients are not included for Anonymity

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Summary

Dependable, Highly-Organized, Self Motivated, **Electrical Engineering professional** with 6+ years experience in designing, programming, testing, provisioning, deploying and supporting electrical equipment and associated systems in an engineering environment. Highly skilled in planning and analysis, with strengths in project management. Extensive background and interpretation of High Voltage equipment. Strong technical and methodical aptitude with an innate ability to analyze, coordinate and synthesize data.

Skills

- ❖ Inspection, Testing, Calibration, Maintenance, Quality Control & Assurance.
- ❖ Blueprints & Schematics, Systems Design, Installation & Commissioning, Technical Documentation.
- ❖ Problem Identification, Trouble Shooting, Reporting & Resolution.
- ❖ Interpersonal & Inter Departmental Communication and Coordination.
- ❖ Computer Skills: Microsoft Office Excel, "Proview" & "Perception" software.

Areas of Expertise

Testing, Calibration, Design & Quality Standards

- ❖ Testing as per Standards: IEC: 60076, IEC: 60044, IEC: 62271, IEC: 60099, IEC: 60034 15, IEC: 60129, IEC: 60137, IEC: 60168, IEC: 60383 as per relevant Indian Standards.
- ❖ Quality documentation and related activities as per IEC: 17025.
- ❖ Laboratory Design in compliance with IEC: 60060 & IS: 2071 and product specific air clearance.
- ❖ High Voltage Testing Techniques: IEC: 60060, IS: 2071
- ❖ High Voltage Calibration activities as per NABL (National Accreditation Board for Laboratories) certified procedures.
- ❖ High Voltage Calibration using sphere gaps: IEC: 60052

Documentation & ISO Audits

- ❖ Documentation for NABL, ASTA BEAB, BIS & ISO audits in order to minimize Non Conformities.
- ❖ Preparation of Standard Calibration Procedures for High Voltage Calibration and getting NABL certificate.
- ❖ Onsite preparation of Report Sheets in "Proview" & "Perception" software so that values are taken automatically from.....the software, thus reducing chances of Human error and also time savings.
- ❖ Implemented the use of standard test register formats for all objects, to avoid duplicate manual entries made repeatedly for each object. This resulted in faster and efficient testing, increase in the number of test objects savings in man hours and increase in the revenue generation for the section.
- ❖ Initiated Automation in the preparation of Calibration Certificate by the use of Microsoft Excel sheet for onsite calibration data entries, resulting in considerable time savings.

Research and Development Projects Undertaken

- ❖ Master Slave JK FLIP-FLOP (Dip.)
- ❖ VAN-DE-GRAFF Generator (B.E). An electrostatic generator of a capacity 60 kV.
- ❖ Role of Third Harmonic Resistive Component of leakage current in deterioration & ageing of lightning arresters.
- ❖ Possible alternative to reduce the clearance between Electric Traction High Voltage Line and Over Bridge.
- ❖ Development of Software (C Language) for Designing of Earthing Grid for substations and power stations.
- ❖ Development Of Off Line Punctured Insulator Detector.
- ❖ Automatic Traffic Light Signal & Street Light Control (Dip.).

Experience

XXXX Ltd, XXXX, Gujarat

2011 to Present

Engineer – Quality & Testing – GIS/PASS

- ❖ Designed a High Voltage Partial Discharge Free Laboratory for Testing of GIS/PASS up to 245 kV.
- ❖ Routine Testing of PASS up to 245 kV.
- ❖ Ensure Quality Control of Incoming Materials & Outgoing Products for GIS/PASS Section.

XXXX, XXXXX Gujarat

2006 to 2011

Sr. Engineer (High Voltage Products Division)

- ❖ Conducted Impulse and Power Frequency Voltage Tests on Transformers, Bushings & Insulators, Isolators, Horn Gap Fuses, Air Break Switches, HT Cables, Current & Potential Transformers, VCB Panels and Circuit Breakers, HT Capacitors.
- ❖ Calibration of High Voltage Equipments like Capacitive & Resistive Voltage Dividers, Digital Impulse Oscilloscopes, High Voltage Testing sets, Oil Break-down Voltage Testing sets.
- ❖ Conducted Radio Interference Voltage Test & Partial Discharge Test on Transformers, Circuit Breakers, and Lightning Arresters.
- ❖ Conducted Accelerated Ageing Test on ZnO Blocks for Lightning Arresters
- ❖ Monitored on Line Condition of Lightning Arresters at site.
- ❖ Conducted Third party inspection and witness of type tests on Transformers, Insulators, Bushings, Lightning Arresters, Capacitive Voltage Transformers (CVT)

XXXXX Gujarat, Palej, Bharuch

2005 to 2006

Junior Engineer (Electrical Maintenance)

- ❖ Shouldered overall responsibilities as Shift In charge. Planning the schedule for Preventive maintenance activities and completing such activities within specified time to reduce the shut down time.
- ❖ Conducted maintenance of 6 units of HI Rolling Mills, DC & AC Motors, Circuit Breakers, DG Sets & OHT cranes.
- ❖ Ensured Breakdown maintenance activities and cross function coordination with Mechanical Dept. to reduce the delay/breakdown time. Some special equipments handled, were of Hitachi make.
- ❖ Coordinated with state Electricity Company's substation for shut down & pre - monsoon maintenance.

Education

B.E.ELECTRICAL

2005

XXXX, XXXX, Gujarat (Gujarat University)

Secured 74.6 % marks (Passed with distinction and ranked 10th in the University)

DIPLOMA IN ELECTRICAL ENGINEERING

XXXXX Polytechnic, XXXX, Gujarat (Technical Board)

80.88% marks (Passed with distinction and ranked 7th in Gujarat State)

2001

Secured

Publications

Failure Analysis Of Distribution Transformers in Lightning Impulse Voltage Test – ITMA
Conference 2008.

Multiple Chopped Impulse Test on Instrument Transformers in IEEMA Journal

Honors & Awards

XXXXX XXXXX, Gujarat - Incentive award for year 2006 - 2007, 2007 – 2008, 2008 – 2009.

XXXX XXXXX, Gujarat - Mylavaram Award for Technical Excellence for Year 2008 – 2009