Praveen Devaraj

ELECTRICAL MAINTENANCE & COMMISSIONING ENGINEER



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CAREER OBJECTIVE

Scaling new heights of success with hard work, dedication and making a mark of excellence on each step, targeting senior level assignments in Electrical Maintenance in Energy Industry's power, Oil & Gas plants with a reputed organization. Aiming to work in a competitive and challenging environment in the field of Maintenance and Commissioning of Electrical equipment.

PROFILE SUMMARY

- An **Electrical Maintenance & Commissioning Engineer** with over 10 years of experience in **Maintenance, Testing & Commissioning.**
- Experience in **Commissioning of Electrical Equipment like GIS & AIS Substations, Busbars, Metal-Clad enclosed Switchgears,** Isolators, Power Circuit breakers (SF6CB, VCB, ACB, MCCB), Bushings with CT, Transformers, Reactors, NGRs, Capacitors, UPS, Battery & Battery Chargers, CT, VT, Diesel generators, HV/LV Motors, Cranes, Chillers, Cooling towers, Fans, VFD, VSD, Heat Tracing and Cathodic Protections.
- Proven capabilities in commissioning as well as conducting tests & inspections to ensure operational effectiveness of equipment Voltage Levels from 400Kv, 230Kv, 110Kv, 66Kv, 33Kv, 13.8Kv, 11Kv, 6.9kv to 0.4K with various OEM Makes like; Hyosung, Hyundai, Al-Ahalia, ABB, Siemens, Areva, Alstom, Schneider & all wide-reaching legendary makes.
- Having knowledge in **Shell** Standards and Specifications for Electrical applications.
- Experienced in handling **MAXIMO (IBM)** for maintenance activities, tools maintenance, issuing work permits and CCAR catalogue request preparation through online in Oil & Gas industries.
- **KSE (KUWAIT SOCIETY OF ENGINEERS)** Membership card holder.
- Saudi Electricity Company **(SEC)** Approval holder for Protection relays and Stability activities.
- Approval holder for Electrical work permit **issuer and executor** in Oil & Gas industries.
- Skilled in managing **overall maintenance operations for reducing breakdown / downtime** and enhancing operational effectiveness, expert in **scheduling and effectuating preventive shutdown**, breakdown and predictive maintenance schedules of equipment and components of power, oil & gas plants.
- In-depth understanding of **Electrical Control & Protection and Instrumentation Control (PLC-DCS-SCADA)** Schemes, Hardware, Architectural Overviews, Displays, HMIs, Alarms, Events and Controls.
- Preparation of Substation engineering drawings, layout and detailed **Design of Electrical systems using AutoCAD**.
- Setting up flawless testing and maintenance facilities for various electrical equipment, protection relays, machines and facilities from the initial stages of a project to the maintenance stages, as well as developing and implementing procedures for pre-commissioning, testing, energization/start-up & maintenance aspects
- Achievement oriented professional with excellent People Management Skills and capability to manage change with ease.

TECHNICAL EXPERTISE

- Commissioning of electrical equipment in power plants process plants, Refineries & Utilities.
- Planning, Executing & managing all electrical construction activities.
- Transformer, Transmission Line control and protection.
- Commissioning of Substations, Motors, MCC and Drives.
- Complete interfacing and interactions with DCS, SAS and SCADA associated circuits.
- Testing, troubleshooting, and commissioning of all types and makes of control & protection relays.

CORE COMPETENCY

- Electrical Operations & Maintenance
- Specialized Tools, Relay softwares
- Preventive Breakdown Maintenance
- Pre-commissioning & Commissioning
- Fault Investigation & Troubleshooting
- Health & Safety Compliance

Education

- **Bachelor of Engineering in** (**Electrical & Electronics Engineering – Full Time**) with **First class Distinction**, **completed in 2011** from Paavai Engineering College / Anna University (Approved by All India Council for Technical Education & NBA), Chennai, Tamilnadu, India.
- HSE Cheran Matriculation Higher Secondary School, Karur, Tamilnadu, India (Completed in the year 2007).

Summary of Organizational Experience

Company Name	Designation	Years
Kent Oil & Energy Ltd, KIPIC Refinery Project, Al-Zour, **Kuwait.**	Electrical Maintenance & Commissioning Specialist.	Since January 2020 to till now.
Al-Gihaz Holding Co Ltd (GESCO)-**Saudi Arabia.**	Electrical Testing & Commissioning Engineer.	4 Years (Oct'2015 - Sep'2019)
Voltech O & M Services Pvt Ltd, Tamil Nadu, **India.**	Electrical Maintenance & Testing Engineer	3 Years (Oct'2012 - Sep '2015)
Tamilnadu Newsprint and Papers Ltd (TNPL – Govt Enterprise), Karur, Tamilnadu, **India.**	Electrical Graduate Trainee	1 Year (Sep'2011 – Sep'2012)

Technical Skills (Maintenance & Pre-commissioning Testing)

OEM Relay Configuration Software Tools & Relay Handled:

- **Siemens** Digsi 4.83 ©, 7SD5, 7UT6, 7SJ64.
- **ABB** Ref. 615, RED 670
- **Areva/Alstom** Micom S1 Studio, MiCOM P633,P643(**Diff Prot**), P442,P444(**Dist Prot**)
- **SEL** AcSELerator QuickSet SEL-5030, 411L, 487V, 451

Office Tools

- **Microsoft** MS-Office (Word/Excel/PowerPoint)

- **Software Skills:** Certification in PLC, Foundation Program in **AutoCAD (Electrical Design).**

Electrical Test Equipment Handled:

- Omicron CMC, Megger, Sverker, Ponova etc.
- CT & CB Analyzers.
- Primary Current Injection Test Systems.
- 1 Φ Relay test Systems (Omicron, Sverker).
- Circuit Breaker Timing Test System/Analyzers.

WORK EXPERIENCE

Since January'2020 to till now: Kent Oil & Energy Ltd, Al-Zour refinery KIPIC project, Kuwait.
Designation: Electrical Maintenance & Commissioning Specialist

Project: KIPIC's Al-Zour New Refinery Project Package#4 (EPC#055B; Utility and Sulphur), Kuwait Integrated Petroleum Industries Company (KIPIC), Al-Zour Refinery, Kuwait.

Scope: Maintenance & Commissioning of all Electrical Equipment in Utility & Sulphur Units of oil & gas refinery.
Role:

- Managing all the Electrical Preservation & Maintenance activities and addressing inquiries whenever there is a breakdown and resolving the same as quickly as possible for various 33/11/6.6/0.420 KV process unit substations, Mechanical / Solo run testing of various process motors ranging in medium & low voltages.
- Utility Boilers 5 nos at the capacity of 126 T/hr at 100%, temperature 325°C & pressure at 84 bar.
- IFG(Imported Fuel Gas) been used for ignition of the boiler, Make: Welcron Kangwon Co Ltd.
- Knowledge about codes, norms and specifications related to electrical discipline.
- Witnessing & Managing Contractors SAT activities.
- Engaged in all the preservation maintenance of electrical equipment, testing and pre/commissioning in a Refinery Plants & substations, such as Transformers, DC /AC UPS, Battery Chargers, HV/MV/LV Switchgears, Protection Relays, Metering / Monitoring Devices, CTs/VTs, VCB/ACB/ SF6 Circuit Breakers, VFD /VSDs, MV/LV Motors, Diesel Generators & Excitation Systems, Load Banks.
- Familiar with electrical switching and load transfer (MTS as well as ATS) during normal and emergency.
- Monitoring Inspection Test Plans (ITP) and Inspection Test Sheets (ITS) of pre-commissioning testing of transformers, Circuit breakers, Motors, UPS, switchgears, Protection relays, metering / monitoring devices.
- Checks assigned drawings supplied by vendors, customers, and other discipline groups throughout the project to ensure quality designs.
- Checking the design of lighting, cable routing, earthing and small power layout drawings.
- Responsible for managing all punch items and accordingly clearing the punch items (A, B& C) related to Engineering/Construction & Commissioning.
- Supporting mechanical / rotating equipment / processing departments for pre-commissioning and start-up activities of motor functional testing, solo-run testing & mechanical / directional run-in testing.
- Discussed and fetched approval for method statements/procedures for systematic and sequential pre-commissioning/commissioning/start-up of plant safety procedure such as LOTO **(Lock Out Tag Out)**, Isolation/De-Isolation.
- Dealt with pre-commissioning, commissioning & energization PTW System and ensure that all safety precautionary requirements and procedures are followed during the commissioning execution.
- Guidance to the field pre-commissioning supervisors/engineers in analyzing the scope as per contract and battery limit.
- Assess the requirements of test instruments / equipment / special tools /temporary facilities for pre-commissioning and commissioning as well as preparing the equipment/tools list and initiate procurement with technical queries & material approval conformities by client in line with the project requirements.
- Responsible for contractor permits, safety related documentation & **HSE** issues.
- Meeting the client's requirements and planning the project activities based on the requirements by attending meetings with the clients on a regular basis.

Until Sep'2019 from Oct'2015 with Al Gihaz Holding Co Ltd, Saudi Arabia (KSA).
Designation: Electrical Testing & Commissioning Engineer

Project: Saudi Electricity Company & Rabigh Petrochemical Company.
Scope: Testing & Commissioning of all electrical equipment and panels.
Role:

- Testing and commissioning of all Electrical equipment of 380 KV, 132KV, 110KV, 33KV, 13.8KV and Scheme Check for Double Bus Bar, one and half scheme.
- **590 MW Oil & Gas power project,** Commissioning of all electrical equipment in the unit substation.
- Testing of CT, VT, Circuit breaker (SF6/VCB/ACB), Power Transformers, Disconnectors, Earth Switches, Lightning Arrester of Voltage level up to 380KV.
- Main and back up protection relays test by secondary injection of Siemens, ABB, SEL and Alstom make relays.
- Protection scheme verification of trip logic inter trip logic, CBF and BBP scheme.
- End to End test and Line stability test for Overhead and UGC Line feeders.
- In-depth understanding of **Electrical Control & Protection and Instrumentation Control (PLC-DCS-SCADA)** Schemes, Hardware, Architectural Overviews, Displays, HMIs, Alarms, Events and Controls.
- Performing routine inspection, System Load parameters and site conditions.
- Power transformer oil Breakdown test and DGA analysis test for transformer oil.
- Trouble shooting & modifications of all Electrical circuits, control and protection circuits.
- Interfacing with engineering personnel to effectively resolve their complaints and equipment maintenance.
- Supervision and witnessing the installation, site testing and commissioning of electrical equipment's like Switchgear GIS and MV/LV Transformer, Capacitor Bank, Interlock Testing, Cable Laying.
- Safety Awareness & Escape, Initial Fire Response, Toolbox talk etc.

Projects:

- **SAKAKA PV 132KV-SOLAR POWER PROJECT -** 450MW
- **Rabigh Petrochemical Company - 590 MW Oil & Gas power project.**
- **Medina MIC SS** - 380KV/110KV/33KV/13.8KV
- **KING ABDULAZIZ UNIVERSITY-JEDDAH -** 110KV/13.8KV SS
- **GREGAR SS PROJECT- ABHA -** 132KV/13.8KV

Until Sep'2015 from Oct'2012 - with Voltech O & M Services Pvt Ltd, Tamilnadu, India.
Designation: Electrical Maintenance & Testing Engineer

Project: SESA STERLITE Energy Pvt Ltd, Smelter Plant 400KV/220KV/33KV, Jharsuguda, Orissa.
Scope: Maintenance and Testing of all electrical equipment and panels.
Role:

- Electrical Operation and Maintenance of **2*240MW** Generator and Switch Yard of 400KV, 132KV, 33KV, 11KV, 6.6KV, 415V distribution Panels of Aluminium plant.
- Testing of CT, VT, Circuit breaker (VCB/ACB), Power Transformers, Disconnectors, Earth Switches of Voltage level up to 400KV.
- Distribution given to Roding unit, GAP unit, Back oven, POT line and Cast house.
- Experience in Emergency Breakdown maintenance and Motor protection.
- Maintenance of Power transformer and oil test for transformer.
- HT, LT motors Protection, operation & maintenance.
- Testing and commissioning of all Electrical equipment of 400 KV, 132KV, 33KV, 400 V and Scheme Check for Double Bus Bar, one and half scheme.
- Main and back up protection relays test by secondary injection of Siemens, ABB, SEL and Alstom make relays.
- Testing of CT, VT, Circuit breaker (VCB/ACB), Power Transformers, Disconnectors, Earth Switches, Lightning Arrester of Voltage level up to 400KV.

Until Sep'2012 from Sep'2011 - with Tamilnadu Newsprint and Papers Ltd (A Government of Tamilnadu Enterprise) India.
Designation: Electrical Graduate Trainee

Project: TNPL (TAMILNADU NEWSPRINT AND PAPERS LTD), Karur, Tamilnadu, India.
Training Location: Electrical Powerhouse.
Role:

- **120MW (6 units),** Steam Turbo Generators, synchronizing with 110 KV substation.
- Power Boilers of 570 TPH (7 units) and the Recovery Boilers of 235 TPH (2 units).
- Operation and Maintenance of HT Breaker VCB up to 2000A, VCB up to 3150A & LT Breaker ACB up to 4000A make in AREVA, SIEMENS, L&T, and Megawin.
- Power transformer 110KV/11KV (20 MVA, 16MVA), 11KV/3.3KV (2.5MVA) Transformer 11KV/415V (2.0MVA) maintenance work.
- 11KV Distributed to Coal yard, Water intake well, Pulp Mills and Paper Machine.

PERSONAL DETAILS

Date of Birth	**: March** 21st, 1990
Languages Known	**:** English, Tamil, Malayalam & Hindi
Permanent Address	**: New** 197-A, Jothidar Street, Vengamedu, Karur, Tamil Nadu, India – 639 006.
Marital Status	**:** Married
Nationality	**:** Indian
Passport No	: Z5821447(Vali Till Nov 2029)
License	: Saudi Driving License Holder.

I hereby would like to declare that the above furnished information is true to the best of my knowledge and belief.

NAME : Praveen Devaraj SIGNATURE:
DATE :