

Ali Nabeel Khan

(QA/QC Engineer)



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PROFESSIONAL SUMMARY

I am quality assurance and quality control (QA/QC) engineer with 8 years' experience. I have successfully overseen electrical construction projects & water supply projects, ensuring they meet specifications, quality standards, and timelines. My expertise includes:

- **Site Inspections:** Conduct thorough site inspections, identifying issues and implementing corrective actions.
- **Technical Document Interpretation:** I excel at interpreting technical documents related to electrical installations, testing, and commissioning.
- **Technical Inspections & Testing:** Conducted detailed inspections and testing of electrical installations, including pumping stations, control systems, and power distribution networks, ensuring all components met design specifications.
- **Proficiency in Electrical Installation:** Extensive experience in electrical engineering tasks such as conduit installations, cable tray setups, testing and commissioning.
- **Material Inspection and Coordination:** Inspect approved materials delivered to the site and coordinate closely with construction teams and consultants throughout the inspection process.
- **Cathodic Protection System:** Proficient in cathodic protection system for water transmission, enhancing pipeline integrity and minimizing corrosion risks.
- **Proficiency in Fire Alarm System:** Monitoring and reporting on compliance with quality standards in Fire Alarm System Installation.
- **Shift Engineer:** Versatile professional with expertise in power distribution, including fault analysis, loss reduction, and system optimization. Experienced in managing site operations, conducting maintenance, and enhancing system reliability while ensuring safety and compliance.

EXPERIENCE

QA/QC Engineer – Electrical & Instrumentation/Control

ALISHAR Contracting Company (ASCC) – Client: Water Transmission Company
“WTCO” 10/2024 – Present

Recent Projects: SQWTS – B & MRTS Makkah (Al- Moghammas) by SWCC WTCO under the Consultancy of Khatib & Alami (K&A)

- Oversee and monitor electrical and I&C works progress, ensuring compliance with project specifications and QA/QC standards.
- Raise RFIs, MRIRs, NCRs, Site Instructions (SI) Inspection and Testing Plan (ITP), Method of Statements (MOS), Erection Clearance Certificates (ECC) and Safety Clearance Certificate (SCC).

- Supervise and inspect MV/LV cable laying, jointing, and terminations, ensuring adherence to approved drawings and standards.
- Conducted and witnessed continuity tests, insulation resistance tests, earth continuity tests, high-potential (hi-pot) tests, and ground resistance tests to ensure electrical system integrity, performance, and safety.
- Fixing of Lighting Poles and the excavation and placing the PVC Conduits and Cable Trays for LV Cables.
- Manage installation, inspection, and testing of LV switchgear, LV distribution panels, Station Statcon panels, medium voltage substations, MRMU and Distribution Transformers.
- Coordinate and verify installation of field instruments for water tanks and valve shafts, including instrumentation for monitoring and control.
- First Fix and Installation for the Lighting and Small Power and Fire Alarm System in the Buildings and Valve Shafts.
- Monitor and ensure proper implementation of cathodic protection systems for station pipelines, installation of Transformer Rectifiers, Anode Feeders and PTS, CTS Stations.
- Conduct and witness electrical testing, including insulation resistance, continuity, hi-pot, and functional tests, ensuring system integrity and safety.
- Installation of Flow Meters, Pressure Indicator Transmitters, Temperature Indicator Transmitters, Level Switches and Pressure Indicators.
- Installation of Water Quality Monitoring (WQM) Cabinets and Remote Input/Output (RIO) Cabinets.
- Collaborate with client representatives (WTCO) for inspection requests, approvals, and project under the consultancy of Khatib & Alami (K&A)

**QA/QC Electrical Engineer,
(Saudi Bin Laden Group, KSA)**

10/2022 – 07/2024

- Performed comprehensive inspections of MEP materials to verify full compliance with project specifications and industry standards prior to utilization.
- Performed installation inspections for cable terminations and conducted insulation resistance (Megger) tests.
- Inspected and verified activities related to telephone/data systems, intercoms, access control, intrusion detection, and CCTV systems.
- Conducted detailed inspections and verification of activities pertaining to telephone/data systems, intercoms, access control, intrusion detection, and CCTV systems.
- Follow quality control procedures during daily operations, tests, and inspections.
- Monitored and inspected installations of conduits, cable trays, local control stations, and lighting fixtures.
- Monitored and reported compliance with quality standards in electrical and instrumentation installations, calibration, and testing.
- Invited Client/Consultant for Witness and hold points in Inspection/Test.
- Managed non-conformance reports (NCRs) and corrective action plans.
- Inspection of the approved materials delivered at the site and coordination with the construction teams and consultant for the inspection process.
- Conducted inspections of raw materials, components, and subassemblies in accordance with inspection plans to ensure adherence to quality standards.
- Submitted (WIR) & (MIR) for electrical activities & materials as per approved Inspection and (ITP).

- Supported the commissioning and handover process by overseeing the final inspection of electrical systems, ensuring all installations were operational, compliant, and ready for integration into the water supply network.
- managed and executed electrical responsibilities for the NEOM Water Supply Project, overseeing the installation and commissioning of electrical systems across an 80km pipeline with multiple pump station.
- Supported the commissioning and handover process by overseeing the final inspection of electrical systems, ensuring all installations were operational, compliant, and ready for integration into the water supply network.
- Maintain quality requirements including ITPs, Checklist, MOS, PQP, PTS & applicable standards and code are being followed at project.
- Implemented QA/QC procedures for electrical systems associated with water pipeline supply projects, ensuring compliance with standards, local regulations, and client requirements.

K-Electric Limited – (Pakistan)

(12-2018 – 07-2021)

Assistant Manager (Shift Engineer)

- In my KE journey I experienced both commercial and technical departments.
- Calculate monthly and YTD wise feeder losses and PMT losses as well as Recovery Ratio and Paying Ratio.
- To analyze 11kv fault and recover that fault according to site conditions and manage the operations of HT Faults.
- Check meter installation, communication and reading & FMR.
- Analyze 11kv fault and recover that fault according to site conditions and manage
- Coordinated with field teams to execute preventive and corrective maintenance on power distribution networks.
- Monitored and optimized energy distribution to reduce technical and non-technical losses.
- Developed and implemented strategies to improve system reliability and reduce downtime.
- Conducted site inspections to ensure compliance with safety standards and regulatory requirements.
- Collaborated with suppliers and contractors to address technical issues and ensure timely delivery of equipment and services.
- Prepared detailed reports on system performance, fault analysis, and corrective actions taken.
- Provided technical support during the commissioning of new equipment and upgrades in the power distribution network.
- Trained and mentored junior staff on fault diagnosis, recovery procedures, and operational best practices.
- Managed the scheduling and execution of planned outages for maintenance activities.
- Ensured accurate data collection and analysis for better decision-making and strategic planning.

Expertise

- Experiences with ISO standards (e.g., ISO 9001).
- Executes the specific inspections on materials, equipment, and electrical work/Installation activities on site.
- Utilizes electrical testing equipment (e.g., millimeters, oscilloscopes, etc.,)
- Inspects electrical systems to ensure compliance with specifications and standards.
- Oversees electrical testing for functionality and safety.
- Troubleshoots electrical issues and implements corrective actions.
- Verifies electrical installations complying with relevant codes.
- Maintains QC Dept. documentation for QC activities.
- Prepares WIR for daily activities.

CERTIFICATIONS

- (SCE) Saudi Council of Engineers.
- (PEC) Pakistan Engineering Council.
- Programmable logic controller certification (PLC)
- Lock Out Tag Out Awareness

EDUCATION

Bachelors of Engineering- Electrical (4 years)

Quaid-e-Awam University of Engineering science and Technology Nawabshah, Pakistan

LANGUAGES

English, Urdu & Arabic: Professional (Good communication - written and oral skills)

1078029

رقم العضوية
Membership No



علي نبيل خان لياقت علي خان بتهان

ALI NABEEL KHAN LIAQAT ALI KHAN PATHAN



Engineer

مهندس

Classification: Engineering

التصنيف: هندسة

Specialization: Electrical Engineering

التخصص: الهندسة الكهربائية

Valid Date: 2025-10-11

تاريخ الانتهاء: 1447-04-19

Membership no.:1078029

عضوية رقم: 1078029

In accordance with the Regulations of Saudi Council of Engineers by Royal Decree M/36 Date 26/9/1423H and the Engineering Professions Practice Regulation by Royal Decree M/36 Date 19/4/1438 H. SCE has approved:

استناداً إلى نظام الهيئة السعودية للمهندسين الصادر بالمرسوم الملكي رقم م/٣٦ وتاريخ ٢٦/٩/١٤٢٣هـ ونظام مزاولة المهن الهندسية الصادر بالمرسوم الملكي م/٣٦ وتاريخ ١٩/٤/١٤٣٨هـ ولائحته التنفيذية فقد قررت الهيئة اعتماد:

ALI NABEEL KHAN LIAQAT ALI KHAN PATHAN

Membership Category: Engineer

Specialization: Electrical Engineering

Membership Start Date: 10/11/2024

جـ ١٠٧٨٠٢٩ : ١٠/١١/٢٠٢٤

جـ ١٠٧٨٠٢٩ : ١٠/١١/٢٠٢٤

التخصص: الهندسة الكهربائية

١٠/١١/٢٠٢٤ : ١٠/١١/٢٠٢٤

This Certification is valid until: 11 October 2025

١٩، ١٠ أكتوبر ١٤٤٧

هذه الشهادة صالحة إلى تاريخ:



الأمين العام Secretary General

., ١٠/١١/٢٠٢٤ : ١٠/١١/٢٠٢٤



Digitally signed by Saudi Council of Engineers at 10/20/2024