



ALAM MOHAMMAD ARMAN

Senior QA/QC Engineer

(NEOM APPROVED)

Contact



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30-05-1972



KSA



Indian

Skills

## KEY SKILLS

### Technical Skills

- LV & MV Electrical System Installation, Inspection, and Testing
- Grounding, Lightning, and Earthing System Verification
- Transformer, Switchgear, MCC & UPS Testing & Commissioning
- Cable Megger Testing, IR Testing & Continuity Verification
- Conduit, Raceway, and Duct Bank Installation Inspection
- Panel Termination, Torque Check & Label Verification
- Electrical Load Testing and

## Professional Summary

Experienced in quality control and assurance with expertise in electrical, instrumentation, and telecommunication systems. Skilled in inspection, document management, and crisis handling, bringing strong technical knowledge and leadership abilities to support project completion and system handover. Offers capability to work under pressure while ensuring compliance with standards and procedures.

## Experience 24 YEAR'S

November 2023 - Present

### ELECTRICAL, INSTRUMENT AND TELECOM QC ENGINEER

AL RAWAF CONTRACTING COMPANY, AL BADAA, TABUK

- Company Overview: Consultant: Bechtel Client: NEOM(ETSD)
- Scope: Electrical, Instrumentation & Control Works / System (ICA/ICT)
- Leak Detection System (Fiber Optic DAS/DTS)
- Cathodic Protection (Temporary & Permanent)
- Fire Alarm System
- Security System (CCTV, Access, SCADA Interface)
- Reporting to: QA/QC-Manager
- Consultant: Bechtel Client: NEOM(ETSD)

## ROLES & RESPONSIBILITIES

- Conduct **inspection and pre-commissioning** for grounding, lightning protection, and earthing systems.
- Perform detailed **inspection of electrical installations** including LV/MV panels, switchgear, transformers, lighting, small power, grounding, and earthing systems.
- Verify installation of **raceways, conduits, duct banks, and cable trays** against IFC drawings and project specifications.
- Conduct **inspection and testing** of power, control, and instrumentation cables — continuity, insulation resistance, and megger testing as per IEC 60364, IEEE, and SEC standards.
- Ensure compliance with **project QA/QC ITPs, method statements, and Aramco/NEOM standards** during all electrical works.
- Supervise **installation of distribution boards (DB, MDB, SMDB, MCC, UPS, and lighting panels)** and verify proper labeling, torquing, and termination.
- Conduct **functional testing of LV/MV switchgear** including interlocks, relays, contactors, protection relays, and tripping systems.
- Review **as-built drawings, load schedules, and single-line diagrams (SLDs)** to confirm design compliance.
- Verify **earthing resistance** and continuity of bonding for equipment, panels, and structures.
- Conduct **inspection of lighting systems, emergency lighting,**

#### Circuit Functional Checks

- QA/QC ITP, Method Statement & NCR Management
- FAT/SAT & Pre-commissioning Activities
- Compliance with IEC, IEEE, NFPA, SEC, and Aramco Standards
- Field Instrument Installation & Hook-up Inspection
- Calibration of Transmitters, Gauges, and Control Valves
- Loop Checking (Analog/Digital) & Signal Verification
- DCS/PLC/ESD/FGS System Interface Testing
- Impulse Line Fabrication, Leak Testing & Flushing
- Junction Box, Marshalling, and Control Panel Inspection
- Instrument Cable Laying, Glanding & Termination
- Instrument Index, Datasheet & P&ID Review
- FAT, SAT & Pre-Commissioning Documentation
- Compliance with IEC, ISA, and ISO 9001 Standards
- Telecom System Installation & Inspection (CCTV, PAGA, IPCS, Radio Systems)
- Electrical & Instrumentation System Inspection
- Grounding & Lightning Protection System Verification
- Cable Tray, Raceway, Duct Bank, and Conduit Installation Inspection
- Power, Control, and Instrument Cable Laying & Termination
- Loop Checking and Pre-commissioning Activities
- Calibration of Transmitters and Instrument Devices
- Panel Inspection (JB, PDB, UDB, UPS, Lighting, Fire Alarm Panels)
- QA/QC Documentation and Record Maintenance
- NCR, Surveillance & Proactive Report Preparation
- Red-Lining, As-Built Drawings, and Punch List Clearance
- SPIR System (2-year & 5-year data uploading)

**aviation obstruction lights**, and socket power distribution.

- Perform **pre-commissioning, FAT/SAT, and energization** activities following safety and permit-to-work procedures.
- Review and approve **material submittals, MIRs, and vendor data sheets** for electrical items.
- Participate in **site audits, surveillance, and technical meetings** with consultants and clients to ensure compliance and close-out of NCRs.
- Maintain inspection logs, calibration records, and test reports per ISO 9001 documentation control requirements.
- Supervise **temporary power systems** for construction, ensuring grounding and safety compliance.
- Supervise and inspect **instrument installation activities** — including transmitters, control valves, analyzers, gauges, junction boxes, marshalling panels, and impulse tubing.
- Verify **installation of field instruments** as per **P&IDs, loop diagrams, hook-up drawings, and instrument index**.
- Conduct inspection of **impulse lines**, ensuring correct slope, support spacing, and flushing requirements (as per project specs & ISA standards).
- Inspect **instrument cable tray routing, glanding, and termination** at junction boxes, local panels, and DCS/PLC panels.
- Perform **continuity, insulation resistance, loop checking, and signal testing** for analog and digital signals (AI, AO, DI, DO).
- Supervise **instrument calibration and bench testing** for transmitters, gauges, switches, and control valves — verifying accuracy as per calibration certificates.
- Witness **FAT/SAT** for instrument panels, control cabinets, and system integration (DCS, ESD, FGS, PLC).
- Verify **cable schedules, termination drawings, I/O lists**, and perform instrument tagging and identification compliance checks.
- Review **vendor data sheets, instrument datasheets**, and ensure compliance with **IEC, ISA, and project standards**.
- Coordinate with **control system engineers** during **pre-commissioning and loop testing** for system readiness.
- Ensure compliance with **instrumentation QA/QC ITPs, method statements, and project quality plans**.
- Prepare **loop folders, calibration reports, and inspection records** as per ISO 9001 documentation requirements.
- Participate in **walkdowns, punch list clearance, and system handover** activities to client representatives.
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- Inspect **raceways, conduits, and cable trays** for electrical, instrument, and telecom systems.
- Supervise **trenching, duct bank, and substation** installations as per project drawings.
- Inspect installation of **control panels, junction boxes, local instrument enclosures, and instrument racks**.
- Perform **inspection of LV/MV power cables**, control, and instrument cables during laying, termination, and testing.
- Conduct **megger and continuity tests** before and after termination.
- Carry out **loop checking** for all instrument and control signals and prepare loop packages.
- Review **IFC drawings** such as single line diagrams, cable schedules, and installation details.

- Megger and Continuity Testing for Power & Instrument Cables
- IFC/IFD Drawing Review and Verification
- Document management
- Fiber Optic Leak Detection (DAS/DTS) Testing & Integration
- API 1155 / IEC 61757 Compliance Review
- Leak Simulation & System Calibration
- SCADA Integration and Alarm Mapping
- Optical Splicing, OTDR & Power Budget Analysis
- □ Cathodic Protection Design & Inspection (ICCP/Sacrificial)
- CP System Commissioning & Potential Testing
- Soil Resistivity Measurement & AC Mitigation Study
- Temporary CP Monitoring & Test Point Verification
- Surge Arrestor and Isolation Joint Testing
- Addressable Fire Alarm Inspection & Commissioning
- NFPA / EN54 Compliance & Documentation
- FACP Programming & Loop Integrity Testing
- HVAC and Firefighting System Interfacing
- FAT/SAT & Fire Alarm Zoning Configuration
- □ CCTV, Access Control & Network Security Integration
- SCADA Interface Configuration & Monitoring
- IP Surveillance Installation & Fiber Backbone Inspection
- Network Device Testing & Firewall Validation
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## Quality & Project Management

- Implementation of Quality Plans & Inspection Test Plans (ITP)
- Coordination with Client/Contractor QC Teams
- Raising and Closing of WIR, RFI, NCR, and MIRR
- Root Cause Analysis and

- Prepare **Calibration Reports, Red-Lined Drawings, and Punch List Clearance.**
- Inspect **fire alarm systems, communication systems (CCTV, PAGA, IPCS, Mobile Radio, Fiber, CAT6),** and ensure compliance with standards.
- Conduct **material inspection** ensuring conformity with project specifications and vendor data sheets.
- Raise **NCRs** and observation reports for non-conformities and ensure corrective action closure.
- Attend **weekly quality meetings**, prepare inspection status reports, and update RFIs/WIRs.
- Coordinate with **construction and QA/QC management** to resolve inspection issues.
- Lead the **preparation and uploading of SPIR (2-year & 5-year) system data.**
- Ensure compliance with all **QA/QC procedures, ITPs, and project quality plans.**
- Participate in **client audits, project close-out, and final documentation.**
- • Supervise installation of **Distributed Acoustic/Temperature Sensing (DAS/DTS)** fiber optic leak detection systems along pipelines.
- Inspect **optical cable laying**, jointing, splicing, and termination in junction boxes and cabinets.
- Verify configuration of **acoustic data communication modules, range extenders, and simulation software integration** with SCADA.
- Ensure system compliance with **API 1155, API RP 1130, API RP 1175, IEC 61757, ASTM F3079-14.**
- Validate system calibration, alarm sensitivity, and automatic shutdown functionality during leak events.
- Perform **loop and continuity testing**, optical power loss measurements, and **pre-commissioning functional tests.**
- Inspect and verify installation of **sacrificial anodes (Zn/Mg) and impressed current CP systems** for buried pipelines.
- Ensure design compliance with **protection potential -0.85V to -1.3V (Cu/CuSO<sub>4</sub>).**
- Monitor **temporary CP systems** until commissioning of the permanent ICCP system.
- Supervise installation of **rectifiers, transformer units, test posts, surge arrestors, and bonding cables.**
- Conduct **soil resistivity, continuity, and potential surveys.**
- Validate **pre-commissioning insulation resistance tests and CP system energization.**
- Maintain test records, drawings, and monitoring logs as per project quality plan
- Inspect **addressable fire alarm systems** including FACP, detectors, MCPs, and sounders.
- Verify wiring integrity, gland sealing, IP55/IP65 rating, and cable fire resistance compliance.
- Supervise **system zoning, loop testing, and device mapping** with station control systems.
- Conduct **Factory Acceptance Test (FAT), Site Acceptance Test (SAT),** and system commissioning.
- Ensure conformity with **NFPA & EN54 standards,** and approval by

Corrective/Preventive Action Implementation

- Material Receiving and Inspection as per Specifications
- Conducting Internal Audits and Surveillance Activities
- Preparing Quality Reports, Method Statements, and QA Procedures
- Leading and Training Site Inspectors and Technicians

#### Software & Automation

- PLC, DCS, SCADA, and VFD System Knowledge
- MS Word, Excel, PowerPoint – Documentation & Reporting

#### Soft Skills

- Strong Leadership and Team Coordination
- Excellent Communication and Reporting Skills
- Effective in Problem Solving and Crisis Management
- High Commitment to Quality, Safety, and Client Satisfaction

**local fire authorities.**

- Coordinate integration with **HVAC, firefighting, and emergency power systems**
- • Inspect and test **CCTV, IP cameras, motion sensors, and access control devices.**
- Validate integration with **SCADA and central security room monitoring.**
- Ensure **redundant data links** and firewall/router configuration for secure communication.
- Conduct **signal verification, cable continuity, and visual performance testing.**
- Maintain documentation for security device locations, camera maps, and recording systems
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October 2018 - August 2023

#### E&I QC ENGINEER

SEPCO3 ELECTRIC POWER CONSTRUCTION CORP.

- Company Overview: Client: SALINE WATER CONVERSION CORPORATION (SWCC)
- Scope: E&I Works / System Completion & Handover
- Reporting to: QC-Manager
- Client: SALINE WATER CONVERSION CORPORATION (SWCC)

June 2016 - October 2018

#### E&I QC INSPECTOR

HYUNDAI HEAVY INDUSTRIES CO.LTD.

- Company Overview: Client: SAUDI ELECTRIC COMPANY
- Scope: E&I Works / System Completion & Handover
- Reporting to: QC Manager
- Client: SAUDI ELECTRIC COMPANY

September 2013 - January 2015

#### E&I QC INSPECTOR

DODSAL ENGINEERING AND CONSTRUCTION PTE.LTD

- Company Overview: Client: DODSAL GASCO ABUDHABI
- Scope: E&I Works / System Completion & Handover
- Reporting to: Project Manager
- Client: DODSAL GASCO ABUDHABI

March 2006 - April 2013

#### E&I QC INSPECTOR

MEDGULF CONSTRUCTION CO.WLL, DOHA, QATAR

- Company Overview: Client: DOLPHIN ENERGY, FLOUR, RAS GAS, QATAR GAS, QATAR PETROLEUM
- Scope: MEP & ELV System
- Reporting to: QC Manager
- Client: DOLPHIN ENERGY, FLOUR, RAS GAS, QATAR GAS, QATAR

## PETROLEUM

October 1994 - May 2001

### **E&I SUPERVISOR**

M/S. CARLO GAVAZI CONSTRUCTION CO. LTD, JEDDAH, SAUDI ARABIA

- Company Overview: Client: ARAMCO, SABIC, SEC, ETC
- Scope: I&C Works
- Reporting to: Sr. Engineer & Construction Manager
- Client: ARAMCO, SABIC, SEC, ETC

## **Education**

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January 1993

### **B.sc Honor's in physics**

Magadha University, Bihar

### **Diploma in Engineering in Electrical & Electronics**

Community Polytechnic Collage, West Bengal

### **Diploma in Engineering in Instrumentation Technology**

Community Polytechnic Collage

## **Personal Information**

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- Passport Number: Y7087423
- Passport Expiry Date: 07/17/33
- Gender: Male
- Marital Status: Married
- Visa Status: Transferable KSA Work Visa (Profession: Building Technician Supervisor)

## **Training**

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- Factory Trained Stagecraft Certified Engineer for Lighting Transfer panels
- Hamad International Airport- Doha End User Training
- Qatar Gas & Ras Gas 'Permit to Work' Training
- Defensive Driving Training
- H2S/BA Training
- Hazard Identification Training
- Work Permit Signatory Training
- Electric Shock First Aid Training
- Fire Prevention Training
- Electrical Safety Training
- Emergency and Evacuation Procedures Training

## **Disclaimer**

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I, hereby, declare that the personal, academic & Professional details furnished above are true and correct to the best of my knowledge and belief.