

ASHFAQ MAHMOOD

BE. Engg | M.Sc. | PMP

Contact: +971 55 528 7273

Email: ishfaqmkd@yahoo.com | ishfaqmkd1986@gmail.com

Address: Deira, Dubai UAE



Summary

I have over 10 years' experience in managing the projects and operation of building constructions, experience in constructing buildings distribution network and building services /MEP(Electrical, Mechanical, Plumbing) lighting systems, TSE/irrigation /Sewage plant lift stations, HVAC systems, Fire Alarm systems, Data Center for critical servers CNS/NAVAIDS/AWOS & AGL Air Filed Ground lighting, CCTV including airports special & critical systems like baggage handling systems (BHS), passenger boarding bridges (PBB), Ground Power units (GPU) and visual docking guidance systems (VDGS).

Proven construction project experience in cabling installations, including site survey coordination with authorities for NOCs/route approval excavations, cable laying backfilling and reinstatement.

Expert in technical coordination with utility authorities, consultants, Main contractors and subcontractors leading electrical team and coordinate work packages for building project between stakeholders.

Exceptional in effective leadership skills, good at flexibility and adoptability, excellent negotiation skills and vendor selection.

Liaise with the Client's Engineering, Operations and Maintenance staff and Installation contractors as required to ensure a consistent approach to project completion.

I have the ability and confidence to lead, motivate, and inspire fellow team members to undertake responsibilities of critical to the smooth construction and management of building facilities.

I am a versatile, enthusiastic to work in highly flexible, team-oriented environment with exceptional communication, analytical and organizational skills.

Projects

1. Sharjah International Airport building projects UAE
2. New Runway 250m separation construction airside 11kV substations
3. New Air Traffic Control Tower construction for specialized airport critical system.
4. Old ATC tower refurbishment as per GCAA (ICAO part-5) regulations including power resilience for data centers server (PDUs) equipment.
5. Sharjah Airport Asset Management (registration, validation, maintenance & monitoring) through CAFM software.
6. Substations (11kV) Oil Field LAMPRELL Energy Hamriyah UAE
7. Substations (11kV) Al Zahia Building Villas Sharjah UAE
8. Substation 132/33kV/6.6kV FEWA Transco for JK cement Factory.
9. Power Plant China MKD III Hydro Power Plant 81 MW
10. Grid Station PESCO 132/11kv

Major Goals Achievement

- Successfully planned and project executed major replacement of main airport substations switch gears for Sharjah International Airport with assistance of stake holders (Schneider UK, SEWA, Caterpillar) without interruption of airport operations for 18 hours.
- Upgrade all cargos building cabling structure with new cables, new DBs and new LED lights
- Renovation and up gradation of Air Traffic Control Tower (ATC) infrastructure cabling at Sharjah airport by affective utilization of in-house technical team
- Saving of AED 64 million by collecting base line data and providing energy audit analysis report to Airport authority in coordination with (SEWA) power utility suppliers.
- Cost saving of AED 1.1 million for Sharjah Airport by replacement of conventional lights with Energy saving lights (LED's).
- Upgraded 11/3.3kV Benshaw (USA) Soft starter of 1500TR Chiller from MX-II to MX-III and reduced current imbalance fault from (18%) to (5%).
- Implemented customized UV (Ultra Violet) radiation solution for HVAC Air Handler unit (AHU-8), this improved air quality efficiency and reduced maintenance cost.

- Reduced domestic water copper pipe leakages up to 90% by maintaining line pressure within 3.5 bar by implementing solution of VFD control panel at main domestic booster water pump system.
- Reduced break down time and maintenance cost (3.5 AED million) of Thyssen Krupp Passenger Boarding Bridges and Safegate (AVDGS) successful upgradation by implementation of new advanced control system.
- Improved over all work quality and customer satisfaction from 85% to 95% by recruiting professional and sound technical staff as per project requirement.
- Saved cost of 60,000 AED by effective utilization of existing resources on newly acquired additional MEP services Gama Hanger-II contract.

Professional History

Sharjah International Airport Construction Projects & Facilities (ENOVA)

Position: Section Head Operations Engineer (24/01/2016 to 23/02/2021)

Worked as Electrical section head at Sharjah International Airport, United Arab Emirates. The main responsibilities include regulatory standard compliance (ICAO part 5 standards IEC 60038).

Responsibilities

- Planned preventive maintenance (PPM) and associated construction buildings & airside projects infrastructure of following specialized airport /critical systems (SAS) to meet airport operation requirements,
 1. Baggage Handling system (BHS) Vanderland and PCM.
 2. Passenger Boarding Bridges (PBB's Thyssenkrupp) and Ground Power unit (GPU 400Hz AXA Power).
 3. Visual Docking Guidance System (VDGS) Safe gate system for aircraft parking.
 4. Power resilience circuits of Data Centers, ATM systems (NAVAIDS/AWOS/ AGL CCTV etc.)
 5. Air Filed Ground Lighting (AGL) power substations (CCR, SCM, NCU)
 6. Backup power system (Generators, ATS, Bye pass panel,400kVA Dynamic UPS, 30kVA, 20 kVA, 10kVA).
 7. Aircraft Apron lighting system for aircraft stands and cargos terminal (High Mask, solar street lighting).
 8. Soft Starter of Chillers (HVAC) 2No's 11/3.3kV Chillers & 3No's VFD 11/415 kV HVAC chillers.
 9. Passenger Baggage scanner system (EDX X-Ray Smith Detection machines).
- Coordinate with local utility supplier (SEWA) and airport different authorities to arrange shutdown for 33/11kV grid stations, 11kV switchgears and 11/0.415KV transformers for building construction, maintenance & system upgrades.
- Coordination with PARSON project management team, CORE, and ADPI Consultants with the existing services for New Arrival Terminal building construction project at Sharjah Airport.
- Preparation of necessary Standard Operating Procedures (SOP) method statement (MS) for building construction projects & maintenance work.
- Performing layout studies and assist Electrical Designer in developing design/drafting activities.
- Submission of annual budget report based on the future building construction development projects and operational requirements (CAPEX, OPEX).
- Liaise with airport stake holders before commencement of maintenance and building construction development project planned work.
- Design coordinate interface activities with other disciplines for assigned area as well as to supervise electrical designers and drafters, reviewing vendor drawings for electrical details and interface data for complex equipment.
- Ensuring consistency and integrity of electrical design throughout project and review design for logic, functionality and completeness.
- Designing and checking of all power, grounding, lighting and electric heat tracing layouts and associated single lines schedules.
- Managing and follow up with contractors for timely addressing of failures and rectification of faults in new runway construction project.
- Perform maintenance tasks and system installation and to advise technicians in troubleshooting system malfunction and review preventative maintenance plans.
- Coordinate with Airport Safety & Fire department before commencement of airside and building side construction projects and maintenance work.

- Planned Preventive Maintenance (PPM), Corrective Maintenance (CM) and building construction project infrastructure of entire electrical power network includes 11/0.415KV substations and backup power Generators, ATS panels, LV panels, Air Circuit Breakers, Capacitor banks, VFD panels, Motor control panel, Fire pump control panel, TSE/Sewage plant, municipality storm rain water lift stations, HVAC, CRAC, CRAH, CCU power & control panels, power cable network, different lighting systems.
- Submission of monthly operation, break down, equipment conditional survey reports.
- Submission of ISQMS safety (Integrated safety & quality management system) reports.
- Preparation and submission semi-annual thermo graphic report for all building Electrical DB's/Panel as a prior action to minimize break down of the system.
- Support and coordinate for additional work including building construction and airside projects.
- Coordinate with airport 3rd party (AMC) service provider to carry out schedule routine maintenance.
- Manage Electrical team to meet contract SLA (Service level agreement) & monitor KPI (Key Performance Indicator) as per contract agreement.
- Preparation of design documents including BOQ's, scope and action plan for construction projects.
- Periodic testing of backup generators (caterpillar) and UPS (Pillar, APC, Schneider, siemens).
- Operation meetings with the customers and operation staff.
- Ensure availability of tools and test equipment as per day to day operation requirements.
- Conduct HSSEQ Tool box talk, Emergency tests for construction projects and facilities.
- Coordination with CORE Consultant & BINLADIN Contracting with the existing services for East Side Expansion of Terminal building construction project.
- Conduct system factory acceptance test (FAT) and site acceptance test (SAT).
- Participate in Energy Management audit at Sharjah Airport and corrective actions to be taken to close audit findings regarding Lighting Inventory, Meter mapping, HVAC Chiller Plant (BTU, power loggers, SEWA utility meters and BMS data).

SCAN Electromechanical LLC: Project Manager (01/10/2015 to 01/01/2016)

Al Zahia Building Villa Construction University City Sharjah UAE

Worked as Project Manager for Al Zahia Global Building Contt Co LLC at United Arab Emirates.

Responsibilities

- Design review and installation of 1500 kVA step down transformers, 11kV RMU SF6 inside GRP's, including feeder pillar Al Therab Elect Switchgear to Villa's and 11 feeder pillar 3000Amp, HV main ring power cables of (3C×300sqmm) of about 5km, HV power cables from RMU'S to transformer (3C×95sqmm), LV cables from transformer to feeder pillar (1C×630sqmm), LV cables from feeder pillar to villas (4C×300sqmm) and cables from main 33/11kv substations.
- Prepared and submission of BOQ's, schedule of work according to project time line.
- Coordination with contractor, consultant, suppliers and sub-contractor stake holders.
- Submission of MIR, SIR, and MAF to consultant for approval.
- Prepared Shop drawings, As Built SLDs designing, equipment drawings submission of documents to SEWA for change management (CM) approval.
- Conduct site survey to identify location for earth pit boring as per requirement to meet SEWA standards.
- Identify, select and design electrical system / equipment for projects as required.
- Perform verification of, but not limited to: electrical drawings, cable schedules, termination drawings, equipment layout, fabrication and installation drawings.
- Participate in design reviews and take necessarily follow up actions with relevant bodies.
- Carry out technical review quotations provided by the Project Manager or New Building Estimation and make recommendations on the technical suitability

SCAN Electromechanical LLC: Project Engineer (01/09/2015 to 30/09/2015)

132/33/6.6kV FEWA Transco Substation, JK Cement, Energoproject, Fujairah UAE

Worked as Project Engineer for JK Cement Factory 33/6.6kV Substation at Fujairah Taween

Responsibilities

- Supervision, testing and rectification of cable fault (1C×1200sqm) of double circuit line about 13km.
- Coordination with consultant, sub-contractor and stake holder (FEWA).
- Submission of permit to work (PTW) to FEWA for further approval.
- Coordination and supervision of Fiber optic cable (FOC) end to end connectivity testing.

SCAN Electromechanical LLC: Project Engineer (01/05/2015 to 30/08/2015)

Lamprell Energy Oil Field Construction Project Hamriyah Port Sharjah, UAE

Worked as Project Engineer for Lamprell Energy Oil Field limited at United Arab Emirates. The main responsibilities are the construction of eight 11kV substations.

Responsibilities

- Installation, testing and commissioning of two 11kV substations i.e. substation G & H.
- Up gradation of six existing 11kV substations i.e. A, B, C, D, E, F.
- Installation of 16 No's Step-down Transformers (1500 kVA) and LV feeder pillars.
- Installation of RMU (11kV), HV (3C×300sqmm) and ELV power cables (1C×630sqmm).
- Management and supervision technical team activities.
- Civil contractor work supervision related to HV trench excavation as per design requirements.
- Preparation of periodic reports and conduct HSSEQ Tool Box Talk.
- Prepared as Built drawings and submission to client.
- Coordination with consultant, sub-contractor and stake holder (Lamprell).

SCAN Electromechanical LLC: Project Engineer (28/04/2014 to 30/04/2015)

Sharjah International Airport Construction of New Runway & ATC Tower project LANE/CH2M HILL, UAE

Worked as Project Engineer at Sharjah International Airport. This includes construction of two redundant 11kV substations as per ICAO part 5 standards ISO 9001, IEC 60038 electrical requirement as per GCAA.

Responsibilities

- Prepare electrical engineering computations, material quantity takeoffs, estimates, surveys, designs, specifications, data sheets, and other construction documents.
- Prepare detailed requisitions for electrical equipment and related materials as well as review supplier drawing submittals and performs technical bid document analysis.
- Installation, testing and commissioning of two 11 kV airside substations SS1 & SS2 as per regulations.
- Installation, testing and commissioning of four compact 50kVA substations.
- Up gradation of existing 11kV main substation.
- Installation of MV & LV substations units including, Switchgears, Transformers, RMUs, Capacitor Bank (400kVAR), ATS, UPS, Bypass Panels, 30kVA UPS for data center critical equipment and MV, LV controlling & communication cables.
- Preparation of method statements along with risk assessments.
- Submit RFA, RFI, DSF, MSF, MAF, MSS and MIR to consultant for approval.
- Preparation of as Built SLDs and equipment drawings.
- Design review of 11 kV RMU and Switch gears (Schneider Electric, Siemens, Larsen & Toubrou Panel, Pillers German UPS (400kVA), ATS ASCO 7000, MTU Onsite Genset(1000kW), Schneider Electric, Siemens etc. and propose relay setting i.e. VIP 300, Micom relay, Solkor relay).
- Load sharing testing between two Piller 400kVA Dynamic UPS while parallel operation mode.
- Control cables design verification for UPS, PLC and Generators integration.
- Supervision of installation work (DB's, SMDB's, cables, transformers and earthing work).
- Coordination with consultant, contractor and stake holder.
- Ensure stock availability of consumable to perform preventive maintenance during DLP.
- Design and installation of Fiber Optic network cabling for airside equipment connectivity (MET, ILS, NAVAIDS, AGL and telephone and CCTV).
- Conduct health and safety tool box talk and training for technical team.
- Carry out site and factory acceptance test before project hand over.

Hydro Power Plant 81MW Malakand III, Pakistan Engineer (01/07/2011 to 28/03/2014)

Worked as Engineer at hydro plant with operation and maintenance department.

Responsibilities

- Study of power plant layout its equipment's and subsystem operation methodology and electrical maintenance techniques.
- Design review and study of the 132 kVA Power Transformer, 11kV Substation, 11kVA 1to1 Power Transformer, 440 kVA Step down Transformer, C.T & P.T Transformers.
- Synchronization control circuit study of 132 kV Line with the Grid Station.
- Power control circuit study (SCADA, PLC, Communication and automation of whole power station).
- Calibration of single, three-phase energy utility meters and maintenance of control equipment.
- Configuration of MMI parameters SCADA server and client.
- Trouble shooting / fault rectification of Single Bus bar and double Bus bar arrangement.
- Understand the hydro power plant process of power generation and its controlling through SCADA.
- Study of power line communication channel through 132 kV transmission line. D.C Protection for lighting and Transformer cooling conservator tank, lighting arrester, isolator switch & SF6 breaker.

IT Skills Proficiency:

- Proficient in MS-Office, MS Project and Auto Cad software.
- Proficient in use of CMMS software (CAFM, concept Evaluation 5000 software application)
- Configuration of CAFM system for Tablets and mobile app integration.
- VDGS system SOS software configuration for air craft docking and timing synchronization.
- Configuration of Building Management System (BMS) Desigo software for energy saving and equipment monitoring.
- Baggage handling system siemens SCADA software configuration.
- Air bridges software use to download break down data from Majlis unit.
- Installation and configuration of MOXA switches at FOC cabinet along with fiber optic cables, patch cords & patch panels.
- Programmable logic controller (PLC) panel installation for new runway substations in order to ensure smooth operations during LOV visibility and any power break down solutions.
- Programmable logic controller PLC fault rectification and solutions for BHS, PBB's, and STP (Sewerage treatment plant).
- Use of Navision software for online approval of issuing LPO's as per listed material to registered supplier reducing paper work using technology.
- Use of Enova Online portal and Adrenalin software for approval and raising requests as per requirements for quick solution.

Technical / Business Skills:

- Highly motivated and self-reliant
- Confident, earn trust and assertive
- Problem solver, frugality, construction management.
- Open thinker, learn be curious and innovator.
- Good communicator with a willingness to share knowledge and support.
- Flexible, invent & simply, are right a lot and bias for action.
- Strong commitment to safety/HAZID/HAZOP

Interpersonal Skills:

- Good organizational, leadership, ownership skills.
- Clear communicator with good interpersonal skills.
- Dive deep route cause analysis for electrical lineups to assess for ongoing operational risks.
- An active listener with the ability to focus on customer requirements.
- Fluent in both spoken and written English language.

Procurement & Store Management

- Online purchase order approval in Dynamic Navision software application.
- Responsible for managing store stock issuance, audit, decommissioned item.
- Online DOA approval up to 10,000 AED using Navision for LPO and I2P Portal for Financial.
- Maintaining and monitoring of stock as per contract agreement with client.

Trainings Attended

- Passenger Boarding Bridges by ThyssenKrupp Spain.
- Building Energy Services for energy audit and saving.
- Operation and maintenance training of VDGS by Safe gate
- UPS Operation and maintenance training by Piller Germany.
- Power Transformer operation training by EURO GULF U.A.E.
- Baggage Handling System SCADA configuration and troubleshooting by FOX
- HSSEQ training by Lamprell Oil field Hamriyah.
- Safety induction training attended at Sharjah Airport.
- CCTV and Access Control trainings.
- Fire Alarm, VFD's, Elevators, and Escalator's, ACBS, and other ELV systems.

Academic Education

- Bachelor of Electrical Engineering (2011) University of Engineering & Technology
- Master in Economics University of Malakand KPK 2007

Professional Membership

- Member of Institution of Professional Engineers (PE).
- Project Management Institute Membership (PMP) Cambridge Education.

LinkedIn Profile

[linkedin.com/in/ashfaq-mahmood-be-engg-m-sc-pmp-53091797](https://www.linkedin.com/in/ashfaq-mahmood-be-engg-m-sc-pmp-53091797)