# Name: Mohammed Shadab Alam Applied position: MEP Engineer

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Passport No: P3207502 Driving License: Valid Bahrain driving license

# Educational records:

* + Bachelor of Engineering (Mechanical) - Nitte Meenakshi Institute of Technology, Bangalore-2009.

**Specialized Training / Seminar**

* + Undergone training for LEED Green Associates (US Green Building Council).
  + Attended & certified in Solar PV Installer from SEA (UNDP), Bahrain.
  + ISO 9001:2008 awareness course.

**Software Skills**:

Knowledge of computers and basic software applications: MS Office (Word, Excel, Power Point),

Auto Cad, SAP, Primavera P6, Revit.

**HVAC Design Software:**

* HAP, Toshiba, Zamil, General form, E-20 form, Mc QUAY Duct Sizer, Mc QUAY Pipe Sizer, CAREER Psychometric Chart Analyser, Expansion tank sizer, Revit

**Electrical Design Software:**

* Annixter Cable Sizer, Tray Cad- Cable Tray Calculator, CG Lux Lighting Calculator software, Relux lighting Calculation software, Dialux lighting Calculation software.

# Career summary:

I am a highly motivated MEP Engineer with a B.E. degree in Mechanical Engineering and experienced in MEP department. I have more than 10 years of experience in MEP Project including high rise Building, Infrastructure, Oil & Gas sector. I am very well aware of application of Mechanical & Electrical engineering, HVAC, Fire Protection, Plumbing, Irrigation, storm drain, Electrical Small power, Lighting System, Fire Alar, ELV & Solar system. Responsible for design, review and approval of MEP submittals & shop drawings, including plumbing pumps and piping systems (Drain waste & vent, domestic water, Solar water, storm water, Booster & Transfer pumps), fire protection (Electric, Diesel, Jockey pumps, Hose reels piping, sprinkler heads, Fire Extinguishers), HVAC systems (Duct work, process piping, District cooling, chiller systems, DX system, Package Units, controls, Building management system), Irrigation & Elevator.

* **Company: Saleh Abdullah Kameshki, Bahrain**
* Period: December 2018 to till date
* Position: **MEP Engineer**
* Projects: Old Palace Riffa, BDC, Shaikh Noor Palace, Jau Prison, Senam
* Client: Al Noor, DTEB, BAS, LK nine, MOI, Abeer Akbari

Duties and Responsibilities:

* To review the design drawing and raise RFI for any clarification required during Tender & project phase.
* Prepare the Bill of Quantity and order the material as per project specification and schedule.
* Arrange the Technical data sheet from supplier & submit to consultant for approval.
* To do the Heat load calculation, duct designing, pipe sizing, Equipment selection.
* To do the Electrical load calculation, Cable Sizing, Cable tray sizing, Circuit Breaker selection, Transformer selection, Capacitor Bank Selection, Preparation of single line diagram, Lighting selection, Design & selection of ELV system.
* Prepare & review the Shop drawings, Material submittal, Test Packages, Method of statement, Operation & Maintenance Manual, As Built submitted by sub-contractors.
* Attend the Initial meeting with the subcontractors and discuss the Job Plan before start of each activity to ensure work to be done as per specified job plan and safety procedures.
* Plan the daily activities with the concerns supervisors and arrange the manpower, tools & materials accordingly for MEP works.
* Do the random inspection on site to verify the work is going as per project specification and safety procedures.
* Do the Material receiving inspection to check the material delivered as per approved submittal and make sure the material stored as per manufacture recommendation.
* Attend the inspection to verify the work done as per approved shop drawing & specification.
* To prepare the ITP, checklist, Method statement for each activity required as per job requirement based specifications.
* Prepare the daily reports of the subcontractor and submit to the management.
* Prepare the monthly invoices and regular follow up.
* Prepare & monitor the two weeks look ahead schedule for progress & Inspection.
* Coordinate with the clients & subcontractors to solve the issues on site.
* Supervise & Inspect the Testing & commissioning activity and review the reports accordingly.
* Working as Management representative for ISO certification. Involved in Internal & External Audit.
* To do the testing/commissioning Electrical, HVAC, BMS, Plumbing, Drainage, Storm water, Lift station, Fire Fighting, Elevator, Solar system & Elevator system.
* Attending the final inspection and issuing the Punch list to the subcontractors.

* **Company: Kooheji Contractors WLL Bahrain**
* Period: January 2015 to November 2018
* Position: **MEP Engineer**
* Projects: TQ/DFAC Quarters, Fontana Suites, Fontana Infinity
* Client: US Army Corps of Engineers, The Developers WLL

Duties and Responsibilities:

* To float the enquiry for quotation to the subcontractors & finalize the contract.
* Compare the tender documents from different subcontractors for Mechanical construction works & prepare the contract documents accordingly for the selected subcontractors.
* Prepare the BOQ for MEP works & raise the inquiry to the vendors, negotiate & finalize the deal.
* Do the Heat load calculation, duct designing, pipe sizing, Equipment selection.
* Do the Electrical load distribution, Cable sizing, Cable tray sizing, Circuit Breaker selection, Transformer selection, Capacitor bank selection, Preparation of Single line diagram.
* Arrange the manpower & tools as per project requirement.
* Check the site installation works for HVAC, Plumbing, Firefighting, Irrigation, Lift station & Elevator works.
* Guide the draftsman & review the shop drawing/MEP coordination drawing for consultant/client approval.
* To arrange the technical data sheet from the suppliers/vendors to prepare the material submittal for consultant/client approval.
* Coordinate with the Purchase department & supplier for the material arrangement at site.
* Develop the standards & check list for the Mechanical installation, Testing & commissioning works.
* To coordinate with the quality departments to do the material receiving inspection at site as per project specification requirement.
* Attending weekly progress meeting with the consultant & client to resolve site quality issues.

Coordinate with site engineers on site to site issues.

* Prepare & monitor the two weeks look ahead schedule for progress.
* Prepare the RFI (Request for Information) before submitting to consultant / client for any technical clarification.
* Coordinate with the clients & subcontractors to solve the issues on site.
* To do the visual inspection on site to verify work is to be carried out as per approved procedure, standards & at the same time meeting with the project schedule.
* Arrange the technical data sheet from the suppliers/vendors to prepare the
* Arrange material submittal for consultant/client approval of Mechanical items.
* Monitor issue deficiency for any violation of project specification and standards to the subcontractors.
* Prepare the documents for Preparatory meeting & initial meetings as per project requirement.
* Prepare & verify the Redline/As built drawing
* Done the Fire Water system hot tapping.
* Coordinate with Third party for periodically audit.
* To do the testing/commissioning of HVAC, BMS, Plumbing, Fire Fighting, Elevator, Lift station

& Elevator system.

* To close the punch list items.
* Prepare & submit the Operation & maintenance manuals as per project requirement.
* Prepare the reports for Mechanical failure of the system.
* **Company: Kentech Qatar Technical Services WLL**
* Period: March 2014 to October 2014
* Position: **HVAC QA/QC ENGINEER**
* Projects: Qatar Shell GTL (Ras Laffan)
* Client: Shell

# Duties and Responsibilities:

* Performed the research on feasibility reports, design, operations & performances of HVAC Units installed in the plants.
* Design the HVAC Units & its accessories as per the requirement and assist the draftsman to prepare the drawing.
* Prepare the Method of statement for all HVAC activities including installation, maintenance, testing & commissioning.
* Prepare the two weeks look ahead schedule for all HVAC related activities.
* Plan the daily activities with the concerns supervisors and arrange the manpower, tools & materials accordingly.
* Prepare the Mitigation plan for any emergency works.
* Prepare the monthly plan, develop maintenance standard and schedules to provide guidance to the maintenance team.
* Conduct Quality tool box meeting on regular basis.
* Supervise the installation & modifications works and do the inspection of completed works at Mechanical sites.
* Report to client for any Nonconformance occurred during installation testing & commissioning.
* Prepare the Root Cause Analysis for all Nonconformance.
* Discuss & clarify the technical issues with supervisors and clients.
* To find out the Bad Actors unit to improve the reliability & integrity of the Unit.

# Company: Velosi Saudi Arabia Ltd

Period: September 2013 to February 2014

Position: QC HVAC Inspector

Project: (1) KING ABDUL AZIZ CENTRE FOR WORLD CULTURE (KACWC), DHAHRAN (2) SADARA-JUBAIL

Client: (1) SAUDI ARAMCO (2) SADARA (JACOBS)

# Duties and Responsibilities:

* As a Saudi Aramco PID (Project Inspection Division), read and familiarized with SAUDI ARAMCO Engineering Standards, Procedures, Standard drawing, Project specifications, Schedule Q in regard with HVAC works.
* Attended the RFI for Material receiving & Installation of Sheet metal ducts & fittings, Hangers

& supports, Fire Damper, Volume Control Damper, Fiber glass insulation for ducts, Air terminal devices & AHUS from client side (Saudi Aramco).

* The KACWC building HVAC system was connected through existing Chilled water system with total 79 AHUs.
* Attended the RFI issued by Contractor and verified that the work is completed as per applicable Standard (SAES-K-001, SAES-K-100, ASHRAE, SMACNA, UMC, NFPA 90A),

Procedures, Drawings & Project Specifications.

* Regular surveillance on site and Log it on QMIS if any Non-Conformity found related to HVAC works.
* To attend the weekly Quality meeting and raise the issue related to HVAC works.
* To co-ordinate with the SAPMT & Proponent to solve the any HVAC issue on site.
* As a PID (Project Inspection Division) approved by SADARA, read and familiarized with SADARA, Procedures, Drawing, Project Specifications, Schedule Q in regard with HVAC works.
* Attended the RFI for Material receiving & Installation of Sheet metal ducts & fittings, Hangers

& supports, Fire Damper, Volume Control Damper, Fiber glass insulation for ducts, Air terminal devices, AHUS, ACCUS, PACKAGE UNITS & DX SYSTEMS from client side (SADARA-JACOBS).

* + Attended the RFI issued by Contractor and verified that the work is completed as per applicable Project Specifications, International Standard (ASHRAE, SMACNA, UMC, NFPA 90A), Procedures & IFC Drawings.
  + To raise the General Comments & Pro-active notification in Log Book to avoid any Non- Conformity on site.

# Company: ENERGY & POWER CONTRACTING COMPANY LIMITED, AL KHOBAR, KSA

Period: April, 2011- September, 2013

Client: SAUDI ARAMCO

Project: (1) UPGRADE SUBSTATION # 50 AT JUAYMAH TANK FARM BI #10-03444 (2) POWER SUPPLY TO FUTURE ESPs & WIPS IN ABQAIQ AREA (NWIP & GOSP 2) BI #10-03004

Project duration: April 2011 to August 2013 Position: **HVAC Engineer**

# Duties and Responsibilities:

* + Plan and manage different projects, and prepare material, cost and timing estimates, reports and design specifications for HVAC & Plumbing systems.
  + Investigate mechanical failures or unexpected problems during commissioning & in maintenance.
  + There was one Substation building including Battery room in each site (Juaymah Gas Plant & Juaymah Tank Farm). The DX HVAC system was installed with 70 Tons Capacity.
  + Conducted inspection for all HVAC related works (Material receiving & Installation of Hanger

& Supports, Sheet Metal ducts, Insulation, Air Terminal devices, Fire Damper, Volume Control Damper, Refrigerant Pipes, AHU & ACCU Installation).

* + Supervise technicians, technologists and other engineers and review and approve designs, calculations and cost estimates.
  + Develop maintenance standards, schedules and programs and provide guidance to site crews.
  + Conducted the Light test of Ducts.
  + Conducted the pre-commissioning & TAB work.
  + Conducted inspection for Final Functional test of HVAC system including DDC system.
  + Prepared the Hydro Test Package & Tie in Package.
  + Raise the RFI (Request for Inspection) once the work has been done and ready for inspection in QMIS.
  + Conducted inspection for Tie in Works of Fire water (Carbon Steel (Cement Lining & FBE) to RTR) and Emergency Eye wash system.
  + Conducted Chlorination & Disinfection for Emergency Eyewash & Shower water to get Saudi Aramco Environmental Department Certificate.
  + Conducted Inspection for Fire Water Monitor, Hydrant, Hose reel, Post Indicator Valve & its Piping system.
  + Conducted Functional Test for the Fire Water System.
  + Conducted Inspection for Fire Water Monitor & its Piping system
  + Conducted inspection of Oily water drainage for Power Transformer areas.

# Company: MAX BALAJI GROUP PRIVATE LIMITED, Bangalore, India

Project duration: July 2009 to Dec 2010

Position: SITE ENGINEER- MEP

# Duties and Responsibilities:

* Prepare the shop drawing and material take off.
* To arrange the material on site.
* Verify the Red line & As built drawing submitted by contractors.
* Verify the Variation submitted by subcontractors.
* Attend the weekly meeting with clients & contractors.
* To distribute the manpower as per daily site requirement.
* Coordination with other engineering trade for site coordination.
  + Preparation of Site documentation to ensure the shop Drawings, Method Statements, Material Submittals, Testing Procedures, Testing equipment’s and certificates.
  + Preparation of submittals of Four week look Ahead Procurement Schedule to the procurement department.
  + Attending weekly project Procurement, progress meeting and to discuss matters relevant to Project progress.
  + Installation & inspection with consultant of Potable Water supply distribution system.
  + Conducted Inspections to ensure that all Plumbing, HVAC & Fire Fighting site activities were carried out under controlled conditions as per shop drawings, method statements, and specification and work plan.
  + Supervised at site for safe work environments, controlled use of material and avoid damages and waste, request material, tools and equipment needed for the projects and issue the foreman daily instructions as per the work plan.