

AFFAN AHMAD

MECHANICAL ENGINEER

(MEP/FM/HVAC MAINTENANCE)

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UAE Abu Dhabi.



Summary.

- Presently working for **Jazal Engineering and contracting LLC Dubai** as a Mechanical Engineer specialized in MEP (viz HVAC, Electrical, plumbing & firefighting systems)
- Energetic and creative with excellent Interpersonal communication, leadership, analytical and organizational skills, able to function, execute individually or as a member of cohesion team.
Background includes completing assignments in challenging environments of construction field including the areas of design, Site Supervision, Quality assurance and Quality control.
- Highly experience professional with proven abilities to deliver in the most demanding field of construction which includes High rise buildings, Hospitals, Medical facilities, Major infrastructure and Iconic buildings.

Education Qualification.

- Bachelor of Engineering (MECHANICAL) from VTU BELGAUM -INDIA, JUNE 2012.
(Attested by UAE).

Membership & certification.

- Member of Engineering council of engineers.
- Member of Indian council of engineers

Professional experience.

- Company : **Jazal Engineering and contracting LLC Dubai**
- Duration : Sept 2020 to till
- Position : Mechanical Engineer.

Prestigious projects and clients.

- Project involved : **AMC Mall Maintenance**
- Job type : Mall maintenance
- Client : Line Investments and properties
- Project value : 200 billion AED
- Location : Abu DHABI

Major Job and Responsibilities.

- Job involves studying tender/contract drawing Project specification contract general

terms and condition of the project.

- Job includes reviewing shop drawings according to Design/Tender or contract drawing and Specification in compliance with standards and codes of respective discipline (viz ASHRAE, NFPA, CARRIER, SMACNA, DW 144, IPC, UPC)
- Design review and verification (DRV) of all MEP services and accordingly deciding to approve contractors' selection of equipment's viz Chillers, Air handling units, fan coil units, pumps (CHW, portable/non-portable water and firefighting pumps), exhaust fan and fresh air fans, Jet fan etc.
- Reviewing of material submittals with their compliance sheet and make comparison sheet between suppliers or manufacturers and project specification for at least three different suppliers.
- Responsible for reviewing method of statement for various services viz HVAC, Electrical, Plumbing and firefighting systems.
- Responsible for monitoring supervising and inspecting the execution of building services comprising of HVAC, Electrical, plumbing (water supply and drainage systems) and firefighting systems.
- Responsible for Inspection of material delivered at site as per approved material submittal along with sample.
- Monitoring site installations and ensuring that the executed work should comply with project specification and relevant international standards and codes.
- Responsible to witnessing TAB (Testing, Adjusting & Balancing) work for Hydronic and air system along NEBB certified technical team.

- Company : **Imdaad LLC Dubai**
- Duration : Sept 2017 to Aug 2020
- Position : MEP Supervisor.

Prestigious projects and clients.

- Project involved : **EPG and Sheikh Ahmad Square Building**
- Job type : Emirates Post Office and Building Maintenance
- Client : Emirates Post Group
- Project value : 150 billion AED
- Location : Dubai

Major Job and Responsibilities.

- Heat load calculation in accordance with the building survey following the ASHREA and CARRIER standards & codes.
- Selection of equipment's like chillers, AHUs, FAHUs, FCUs etc) and other accessories and preparing Schedules of all the equipment.
- Chilled water piping design, Pump head calculation with selection of pumps, preparation

of riser diagram of chilled water systems.

- Duct designing by various method viz Uniform Velocity/Equal friction method/static Regain method.
- Responsible for reviewing shop drawings of HVAC, Electrical, Plumbing and firefighting systems.
- External static Pressure (ESP) calculation of Ducting using SMACNA standards.
- Coordinating with structural and architectural department for clarifying and solving on site issues. Pertaining to the practical aspects of the project.
- Involved in Pre-commissioning of HVAC system like chillers, AHUs, FCUs, VFDs, Pumps. Fresh air fans, Exhaust fans etc and air and water balancing of respective systems.
- Responsible for Supervising installation of Drainage system (viz soil line, waste lines, Condensate drain, rainwater, storm water and dewatering perforating pipelines with floor parking, scupper Trench, Roof drains.
- Also responsible for installation of cold, hot and flush water system with electric water heater equipped with necessary valves package.
- Supervising installation of plumbing specialities (viz WWC, EWC, Lavatories, urinal, bathtub, shower Tray, Bidet, Jacuzzi, Janitor sink and kitchen sink).

Prestigious projects and clients.

MEP Engineer || April 2014 – May 2015

DLPS (Project-New building Rastanuara Saudi Aramco) ▪ Saudi Arab,

Mechanical Engineer || July 2012 – March 2014

BLUE STAR LIMITED (Project: Kolkata International Airport) ▪West Bengal India

Mechanical Engineer || July 2015 – August 2017

VOLTAS LIMITED (Project: Khandeweli Wada Thane) ▪Maharashtra Mumbai India

Major Job and Responsibilities.

- *Supervising installation of HVAC system as per design & shop drawing complying with specification and BOQ.*
- *Modification of ducting as per site requirements and in co-ordination with actual site conditions.*
- *Responsible to monitor the installation/Erection, alignment & Execution of water cooled & air-cooled chillers, Air handling units, package units, fan coil unit, exhaust blowers, kitchen hoods etc*
- *Coordination with site construction team & also attending Site progress meetings.*

- Responsible for coordination with supplier for arranging raw material, tools, and construction equipment to sub-contractors to achieve the target on time.
- Job involves co-ordination with the structural, architectural, firefighting, plumbing and Interior designing discipline personnel.
- Analyzing all the work should be accomplished as per specification & standard codes.
- Providing necessary details of the site to the planning division for selecting location for AHU Room and Plant room during initial stage.
- Check the root/layout for DX piping system into the building like CHW pipe routing.
- Supervising installation of Primary & secondary pumps, valve package, pressure maintaining gauge, chemical dosing pump etc.
- Check all sorts of HVAC drawing like roof, riser, CHW piping, ducting, plumbing, firefighting drawing and procedure the sectional views of support/foundation
- Guiding/providing necessary information to the specialized contractors during commissioning, Air balancing, water balancing and temperature test, Humidity test to check all types of Controls Systems Safety System as per design with BMS and maintenance manager.
- Responsible for the execution of the complete phase of HVAC systems till handover to the client after commissioning of equipment's of the system.
- Accomplished the work as per mentioned in the tender document along with relevant standards and codes.
- Responsible to clarify and take approval of the executed work from consultant and attend weekly progress meeting with consultants, architect, PMC, BMS and other engineering disciplines.

Computer proficiency:

- Design Software- **AutoCAD**,
- Proficient user of MS Office (Word/Excel/PowerPoint, Maxima).
- Ansys Basic Training
- "C" Programing

Technical Credentials.

- Completed post graduate course in HVAC, Plumbing and firefighting.
- Completed Industrial safety and permit receiver course and certified by Saudi Aramco
- Completed scaffolding inspector

Designing Packages:

- Software based designing for all types of Residential and Commercial Buildings for Duct designing using formulae, Ductulators (Coo line, Zamil, Trane, Carrier, York and Greenheck) and programs (DUCTO & Mc-Quay) Air terminal selection using BETA performance data program.
- Heat Load Calculation (manually by E-20 & General) and by software programs Carrier Block Load, Carrier – HAP4.3 version (Hourly Analysis Program), Elite.

Personal Details

- *Date of Birth* 25th February 1987.
- *Nationality* Indian
- *Sex/Status* Male/Married
- *Passport No* U0724829
- *Visa Status* Employment
- *Languages* English, Hindi, Urdu, Arabic

Declaration

I hereby certify that the above information's are true to the best of my knowledge.

Place: ABUDHABI

*Name of the Applicant: **Affan Ahmad***