




SYED MUSADDIQ

MECHANICAL ENGINEER

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 0534546962

 Riyadh , Saudi Arabia

SUMMARY

Experienced Mechanical Engineer with 11+ years in diverse MEP projects, including Residential, High-rise towers, Metro, Hospital, commercial and infrastructure. Proficient in project management, planning, manpower deployment, coordination, execution, clearance, and handover. Specializes in HVAC, Plumbing, and Fire Fighting systems with expertise in construction site work, installation, testing, and commissioning.

PROFESSIONAL EXPERIENCE

Jones Engineering Group Sr. Mechanical Engineer

Nov 2023 – Present | Riyadh

PROJECTS:

- 1) Riyadh Metro Project (Line 01) RCRC, BACS Consortium, RMTC

Mohammed Al Habib Real Estate Co. Sr. Mechanical Engineer

Oct 2022 – Oct 2023 | Riyadh

PROJECT: Residential Towers

- 1) SAFA- 5 Buildings, 102 Luxury Apartments
- 2) HAMRA- Buildings, 56 Luxury Apartments

Technical Development Co. For Contracting Mechanical Engineer

Feb 2017 – Sep 2022 | Riyadh

PROJECTS:

- 1) Riyadh Metro Project (Line 04) FAST Consortium/ Samsung C & T/ Ramped
- 2) MISK City Schools Campus * Saudi Arabian Baytur / V3 Middle East / WSP

EDUCATION

Bachelors of Technology, Mechanical Engineering
Visveswariah Technological University
2009 – 2013 | INDIA

CERTIFICATION

Saudi Council of Engineers (SCE)
Membership ID : 919635

JOB RESPONSIBILITIES

- Installation, Testing & Commissioning of HVAC, Chilled water, VRF , Plumbing & Firefighting system.
- Supervise and manage mechanical construction activities on-site ensuring compliance with project specifications and standards.
- Plan the project execution; prepare detailed working schedules and look ahead schedules of MEP activities based on the project schedule.
- Conduct work & material inspections to verify the compliance to drawings and specifications.
- Coordinate with subcontractor to complete the comments raised from internal and consultant's inspections.
- Coordinate with subcontractors, Project team and Consultants to ensure the work progress is as per schedule.
- To generate material take-off as per approved drawings and place purchase requests to procurement dept. as per material approvals.
- Conduct site surveillance, Meetings, and discussions with team and subcontractors for the work progress.
- Closely monitoring subcontractors' progress and material availability on site to ensure that project milestones are achieved as planned.
- Coordinate / follow up with subcontractors to ensure submittals including shop drawings, material submittals and document submittals are completed as per the schedule.

Gurfat Contracting Company
Mechanical Engineer

Jun 2015 – Jan 2017 | Riyadh

PROJECT :

1) King Salman Hospital (200 Bed) , MOH,
Khatib & Alami, Al fouzan Construction Co

Speedfrost Services Pvt Ltd
Mechanical Engineer

Aug 2013 – Apr 2015 | Mumbai, INDIA

Projects

• High Rise Towers / Hotels / Villas

 **SKILLS**

Project Management

Strong Communication

HVAC / Plumbing / Fire Fighting

Adaptability / Team Leader

Documentation/ Reporting

Quality Assurance/Control

Planning / Resource Allocation

Design Reviews

On-Site Inspections

 **LANGUAGES**

- English
- Arabic
- Hindi

 **SOFTWARE**

AutoCAD

Aconex

MS office

- Coordinate with subcontractors, Project team and consultants for completing the testing and commissioning activities of the project as per project schedule.
- Attending Minutes of Meeting (MOM) & coordinating with other entities (Civil, Architecture, Facade Etc.) for smooth execution of project.
- Review red line drawings and as built drawings from subcontractor for accuracy and incorporation of relevant information.
- Conduct internal snagging and coordinate with subcontractors for closing the internal and consultant's snag lists.
- Monitor Testing and commissioning of MEP systems on-site, ensuring adherence to design specifications and quality standards.

 **Awards**

Best Performance Awards

- For dedicated service & Outstanding work performance at Riyadh Metro Projects. (Line 04)

 **ADDITIONAL INFO.**

- Iqama Status: Valid & Transferable
- Notice Period: Immediately Available
- Nationality: Indian
- Marital Status: Married
- Driving License : Valid KSA

HVAC SYSTEM:

- Installation, Testing & Air balancing of Supply, Return, Fresh and Exhaust air duct systems.
- Start up, Testing & Commissioning of FCU, AHU, Fan's & Chilled Water Pumps.
- Installation, Testing & Commissioning of DX / VRF (Refrigerant piping system).
- Installation of Fan's (Exhaust, Smoke exhaust & Pressurization) • Installation of Sound attenuators, Sand trap louvers, Dampers VCD, FD, MSFD.
- Knowledge of Duct material & Type of insulations used for HVAC system.
- Installation of plenum box, Grills & Diffusers for HVAC system
- Installation, Testing & Chemical Flushing of Chilled Water System.
- Installation of FCU, AHU, CHILLER, Chilled Water Pumps with Valves Packages.
- Knowledge of pipe material & insulations used for Chilled water piping system.
- Installation of Ancillary Equipment's of chilled water system (Pressurization unit, Chemical dosing system, Air separator tank, Water softener, Makeup tank).

PLUMBING SYSTEM:

- **Sleeves:** Installing sleeves in concrete slabs / Beams to accommodate pipes, allowing for future adjustments.
 - **Piping:** Laying water supply and drainage pipes underground, often involving trenching and backfilling.
 - Installation of Plumbing systems (Water supply, Drainage, Storm & Sewer system)
 - Installation of Domestic Water Pumps (Booster, Circulation) with Complete piping with valves & Accessories inside Pump Room.
 - Domestic Water Tanks, piping connection with all lines (Suction, Discharge, Inlet line with Float valve, Overflow, Tank Drain)
 - Installation of Sanitary fixtures as per standard details
 - Start up, Testing & Commissioning of Domestic water pumps.
 - Installation of Electric Water Heaters (EWH) with connections.
 - Knowledge of Chemical DISINFECTION of Domestic water tank with pipe network.
 - Installation of submersible pumps, with valve package & Piping.
- > **Testing and Inspection:**
- **Pre-Commissioning:** Testing and verifying the proper functionality of pumps, water heaters, and other components before they are fully operational.
 - **Leak Testing:** Thoroughly checking for leaks in water supply and drainage pipes.
 - **Flow Testing:** Ensuring proper water flow through drainage risers.
 - **Final Inspection:** Conducting a final inspection to verify the overall quality and functionality of the plumbing system.

FIREFIGHTING SYSTEM:

- Installation, Testing & Flushing of Fire Fighting systems (Sprinkler /Hydrant)
- Installation of FIRE PUMPS with Complete piping & valves (OS&Y, CV, Flow Meter, ZCV, PRV, Alarm check valve etc.)
- Fire Water Tank, piping connection with all lines (Suction, Discharge, Test run, Breaching Inlet, Inlet with Float valve, Overflow, tank Drain)
- Start up, Testing & Commissioning of Fire Pumps (Jockey, Electric, Diesel)
- Installation of Fire Hose Cabinet (FHC), External Fire Hydrant ,Landing Valve & Fire Extinguishers.
- Installation of Fire Department Connection (Siamese Connection) with NRV.
- **Code and Standard Adherence:** Ensuring that all fire protection systems adhere to relevant codes and standards, such as NFPA (National Fire Protection Association) standards and local building codes.
- **Installation Checks:**Verify that the system is installed correctly, with all components in place and aligned with approved shop drawings.
- **Equipment Verification:**Ensure that equipment like pumps, valves, and sprinklers are properly installed and that they are coordinated with other services
- **System Response:**Verify that the system responds correctly to a simulated fire event, including starting pumps, initiating alarms, and activating sprinkler heads.
- **Pump Commissioning:**Verify that the fire pumps are pre-commissioned and can start and operate as designed.
- **Final Inspections:**Conduct final inspections to verify that all components are functioning correctly and that the system meets all design requirements.