



Career Objective:

With 15 years of extensive experience, I specialize in MEP systems design, installation, operation, maintenance, and testing & commissioning, adeptly serving both construction projects and precast factories. I approach every project with enthusiasm, consistently delivering exceptional results and superior performance across all technical operations.

Profile Summary:

Motivated Mechanical Engineer cum Construction Manager with 15 years of experience in design, Engineering, and Construction management of Mechanical, HVAC, Firefighting, plumbing & Drainage, landscaping irrigation for buildings and infrastructure work, proven ability to lead teams and manage projects from conception to completion. Additionally, Steel Structure Fabrication work experience of commercial, residential, infrastructure and Pre-Cast Factory buildings construction projects, and knowledge of technology & engineering familiar with local and international standards including QCS, QCDD, KAHRAMA, NFPA and ASHRAE rules & regulations.

Professional Job Experience:

1- Redco Elseif JV

Saudi Arabia
(From 2024 to Continue)

Project: Oxagon Precast Factory (Neom)

Designation – Senior Mechanical Engineer



Project Duties and Key Responsibilities:

- Design and review of mechanical services and equipment installation.
- Testing & commissioning work of Batching Plants, Gantry crane, overhead crane, cutting bending machine, mesh welding machine, Steam Boiler for Curing system, Precast mold hydraulic system, Air compressors, Water Chiller & Power Generator.
- Design, build and operational of Precast Elements manufacturing factory machinery's, there are MEKA and Sany Batching plant, Nucleon & Weihua Gantry & Overhead Cranes, Oscam Steel Cut & Bend Machines, MEP Stirrups Machines, TJK mesh welding machine, Sany automated Concrete Production line, Cure tec Steam Curing Racks & Tents with Boiler steam System, Flying Concrete Bucket system and all respective MEP Infrastructure system.
- Acting as the main point of contact between stakeholders (e.g., clients, executives, vendors) and the project team. Regularly updating stakeholders on project progress, risks, and issues.

2- Redco International W.L.L

Doha, Qatar
(From 2017 to 2023)



Designation – Senior Mechanical Engineer

Lusail Bus Depot (Ashghal Project)	Gewan Island Project	Slaughter House and Central Market Al-Wakrah
Al-Saqab Villas Project	GWC Project Al Wukair	SAW for 35 Qatar Metro Rail Stations (Landscaping Project)
Al –Sidra Farm House Project	TSE Line Lusail Project	Al-Bidda Park and Corniche Floral Arch Project
Red Line North EAG Lusail Metro Station	Qatar University Station	Hamad International Airport Metro Station

Project Duties and Key Responsibilities:

Construction & Design Review of Infrastructure, Building MEP Services & Equipment Installation Work:

1. System Design works of:

- **Plumbing & Drainage System:** Develops detailed plumbing system designs for commercial, industrial, and residential projects, considering water supply, drainage, and sewage disposal.
- **Load Calculations:** Perform calculations to determine the heating and cooling loads required for the HVAC systems. This helps in selecting the appropriate equipment and ensuring the building's energy efficiency.
- **Equipment Selection:** Based on the design and load calculations, selection of the appropriate mechanical and electrical equipment, such as HVAC units, pumps, generators, electrical panels, lighting fixtures, etc.

2. Installation, Inspection, Testing and commissioning works of

- **HVAC System** which includes HVAC Duct and Accessories like VCD, VRV, VRF, FCU, AHU, FAHU, Louvers, Chillers, Chilled Water Network, Air Handling Equipment, Ductwork and Air Side Equipment's, Diffusers & Grilles, Exhaust Fans.
- **MEP Infrastructure Underground Services** which include wet Utilities MEP services waste water Treatment Plant TSE pipe line, portable water supply pipeline, Firefighting pipeline, storm water drainage work, Foul Sewerage Drainage work irrigation Drip line with irrigation water supply networking, rain water piping, Gully trap, catch pit Manhole Electrical Systems, Pumping Systems

3. Collaboration & Coordination Works of:

- Collaborating with other engineers, architects, and construction project managers to integrate and optimize HVAC systems in building designs.
- Work closely with architects, structural engineers, and other professionals to ensure that their systems integrate seamlessly with the overall building design and structure.
- Responsibility includes preparation of COMBINED SERVICES shop drawings including preparation of HVAC, Plumbing, Drainage, Fire Fighting, Electrical etc., Employee responsibility also includes design works, Quantity

4. Other Responsibilities

- Review Project Planning and analysis all MEP Drawings materials, Schedules/programs.
- Prepared of Design take off quantities for material order along with material coordination and design coordination work at site. HVAC Systems, and Fire Detection and Suppression Systems in compliance to all local and international standards.
- Execute periodic site assessments to monitor quality and compliance for Engineering works being executed.
- Provide oversight for the installation and commissioning of MEP works.
- Manage all communication with Engineers, supervisors and ensure efficiency of all MEP Services Installation and resolve all issues for daily progress.
- During the construction phase, involved in overseeing the installation of systems to ensure that the work is carried out correctly and meets the design specifications.
- Conduct fire protection and life safety evaluations and assessments of facilities.
- Documentation: Creating detailed documentation that outlines system configuration, processes, and maintenance procedures.

**3- DESCON Engineering Limited:
August 2011 to Oct-2017**



Designation – Mechanical Engineer

Projects:

- New Head Khanki Barrage Project-5015
- DESCON Engineering Limited LMW & Head Office Lahore
- BHP Billiton Zamzama Gas Plant (Pvt.) Ltd at Dadu, Pakistan

Duties and Responsibilities:

- Evaluate mechanical and electromechanical systems and products by designing and conducting research programs; applying principles of mechanics, thermodynamics, hydraulics, heat transfer, and materials.
- Review Plan all materials for new products and ensure optimal utilization of all resources and administer product orders and ensure compliance to all timeframe for all fabricated products.
- Cooperate and communicate effectively with project manager and other project participants to provide assistance and technical support.
- Inspection and submittal process Preparation of Operational and Maintenance Manual, Method Statement, MAR, for Mechanical services & Equipment's
- Ensure proper fabrication, installation & Inspection of Radial gates slid gates, gantry cranes and structural works.
- Review Monitoring of Piping Supervision and Equipment Erection for Piping Fabrication & Installation with inspection work.
- Prepare Calculation of Surface Area for Piping & Structure work and Material Control in all respect & inspections
- Review Inspection of sand blasting & painting of pipe spools, pipe supports and steel structure according to client's provided specifications.
- Review arranges and preparation of Test Pack. Supervise & Marking of Joints/Spool on Piping isometric.
- Review makes changes to ensure compliance with established design standards and practices.
- Analyze all root causes for all fabrication issues and resolve same and implement all new process tools according to required order.
- Review Plan all materials for new products and ensure optimal utilization of all resources and administer product orders and ensure compliance to all timeframe for all fabricated products.
- Review Design Pressure Vessels, LPG Tank, Fuel Storage Tanks Heat Exchangers, Towers LPG Bullets Fire Tube and Water Tube Boilers fabrication production work
- Strong understanding and knowledge of international codes and standards used in Oil & Gas such as ASME, ANSI, API, TEMA, NFPA, etc.
- Good understanding of Health, Safety, Environmental and QA/QC requirements and the implications of non-compliance/adherence.
- Preparation of reports regarding the Fabrication, Erection & Installation & inspection work with the coordination & satisfaction of consultant and client.

Professional Education:

- B.Tech in Mechanical Engineering from BZU Multan University

Computer Skills:

- Well-versed in using Auto CAD 2-D
- Well Experienced in using “MS Office”
- Primavera Project Planner (P6)

Trainings:

- DPMS DESCON Progress Monitoring System
- DCS DESCON Documents Control System
- DESCON Cost control on project Training

Participation Certification:

- Effective Communication Skills
- E&P And HSE Awareness Management Development
- Construction Project Management
- Cost control on project
- Supervisory Skills
- Effective Presentation Skills

Professional Skills:

- Professionalism and teamwork.
- Team management and leadership qualities.
- Pragmatic, hardworking and energetic.
- Effective communication and negotiation skills.

Language: English, Urdu, Arabic

Profile:

- Father Name : Rana Muhammad Ali
- Date of Birth : February 10, 1991
- Gender : Male
- Nationality : Pakistani
- Passport No :FA6178832
- Marital Status : Single

Reference:

- Shall be furnished upon demand.