

MAHTAB ALAM DANISH

Mechanical Engineer

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📍 Saudi Arabia



**Post Applied: Mechanical piping & pipeline Construction Engineer.
(Petrochemical, Oil & Gas, Electromechanical industries)**

EXPERIENCE PROFILE:

- Mechanical Engineer with over 10 years' experience, responsible for the Execution, supervision, coordination, and planning of the work on-site construction environments in a safe and efficient manner.
- Well Experience in Supervision & Execution at Different Nature of Projects Well Experienced in Execution of metallic & nonmetallic pipeline (CS, RTR/GRP/FRP/GRE pipe, Plumbing, HVAC & Firefighting) Including Construction Activities of Oil & gas, Upstream pipeline and wells Tie-in pipeline project Industrial Piping, Airport, Residential Complex, High-Rise Building, Hospital & Commercial MEP Projects.
- A result-oriented person, high performer, and flexible, excellent inter-personal written and oral Communication skills, familiar with the engineering standards. Accomplish the assigned job in a Professional and organized manner with minimal Execution & supervision. Very aware of international Standards as well as Saudi Aramco standards and specifications related to field of construction and pipeline Engineering.

PROFESSIONAL QUALIFICATION

- Passed B. Tech in Mechanical Engineering from JNTU Hyderabad in the year 2015.

CERTIFIED TRAINING:

- Heat Load Calculations Certification (16-Feb-2015 to 20-Feb-2015) Training at Advance Training Institute,
- (Heat Ventilation & Air Conditioning II / Duct Designing & Green Building Concept) Certification (23-Feb-2015 to 27-Feb-2015) Training at Advance Training Institute
- Repair & Maintenance of Domestic Refrigerator with Eco Friendly Refrigerator Certification (2-Mar-2015 to 5-Mar-2015) Training at Advance Training Institute
- MEP Design & Drafting Certification KGE00850 (20-Apr-2015 to 20-Jul-2015) Training at M/s. KG – Mech Electro-Mechanical Pvt. Ltd, Hyderabad.

CAREER RECORD

1. Company : GULF EXCELLENT GROUP(GEG)
Company : Saudi Aramco
Project : Jafurah upstream pipelines and well tie-in project
(BI-11-19034-4003 BI-11-20034-4002, JOB No. 240812)
Contractor : Saipem
Position : Project Engineer
Period: (September 2022 to till now)

- **COMPLETION WORK OF SCOPE THE FOLLOWING PROJECT:**

- AGI WELL PAD HZEM 1628 HZEM 1624 HZEM 1426, HZEM 1428, MLIVs 01S, 02S, 03S, 01E and 02E, Remote Header,

- RTR Produced Water Transfer Line Pipeline Installation 490 km (Lamination & threaded Joint)
- WellPad101,102,105, dismantling and demolition
- High Pressure Trunkline, Condensate Transmission, flow line, Transmission Line, Produced Water Transfer Line (8",14",16",30")

Project Overview:

- Ensure that all the resources required for the project are arranged well in advance prior to start the site works.
- Planning & preparation, understanding the ISOMETRIC drawing P&ID Take of material & expediting. Assist in fabrication lay-outing. Erection ,installation of pipe and pipe support, and to be done before target of schedule.
- Review structural fabrication and Erection Drawings.
- Coordinate with the QC Department whenever inspection is required.
- Preparation of cutting plan and fabrication drawings.
- Supervision of erection and fit up on site.
- Checking of ISO drawings, release for pre-fabrication of A/G spool CS base on the priority and material availability.
- Prepare purchase requisitions for the procurement of piping materials and assist in the technical evaluation of bids.
- Identify required tools, equipment, consumables and manpower considering site readiness, project requirements and project completion schedule.
- Training of technicians considering project and standard requirements prior to mobilization.
- Ensure that all the required Quality documents like Method of statements, Procedures, ITP, qualification certificates of technicians and any other required document are submitted for client's review and approval.
- Study job specifications to determine appropriate construction methods.
- Ensure quality construction standards and the use of proper construction techniques.
- Review isometric drawing, RTR piping lay-out and P&ID drawing prior to erection, Erection and installation of RTR/GRP/FRP/GRE for underground & above ground pipes.
- Supervising Lamination of FRP/GRP/GRE pipe joints, Check the expire date of all adhesives and resins are being using for bonding the RTR/GRP/FRP/GRE pipes,
- Make Sure the Structure is ready and then call the Client for Inspection.
- Close all Comments given by Client prior to proceed.
- Monitoring the Construction activity and Supervise the Construction as Per IFC Drawing and Project Specification.
- Ensure that all the resources required for the project are arranged well in advance prior to start the site works.
- Inspect the Materials before use such as: pipe, fittings, equipment's, Materials and Embedded items as per IFC Drawing and Project Specification.

- project construction activities are conducted in accordance with quality system.
- To support & Coordinate with Construction team for rectification of Punch list Items
- Inspection of works carried out by contractor and use surveillance report to document both Acceptable and deficient works found at the time of inspection.
- Giving the feedback to construction Manager.
- Preparing Daily, weekly and monthly report of construction activities.
- In-charge for the construction, installation and pipe laying, lamination joint TB/TS of fiberglass Reinforced Thermosetting Pipes (RTR) for Utility water lines including all of its fittings as per detailed drawing.
- Agree method of statements and JSA. Ensure that work is carried out in accordance with the agreed method of Statements.
- Execution lamination joint Work on RTR potable water high pressure Threaded joints as per manufacture Procedure.
- Execution of threaded joint Work on RTR potable water high pressure Threaded joints as per manufacture Procedure.
- Installation of Pipeline lowering activity.
- Execution & supervision of GRV Pipe installation & Check the Pipeline Crossing under Roads.
- Managing a team of pipe fitters, welders, and other technicians, assigning tasks and ensuring that work is completed on schedule.
- Provide technical support to construction and commissioning teams during installation and commissioning activities.

2. Company: Hua ke Engineering India Private Limited
Position: HVAC Engineer
Project: i. Samkwang India Electronic Private Limited.
 ii. Vivo Mobile India Private limited
 iii. Q. Tech Microelectronics India Private limited
Period: (January, 2020 to Aug2022)

Project Overview:

- Ensure that all the resources required for the project are arranged well in advance prior to start the site works.
- Supervise and coordinate the activities of Construction Contractors.
- Developing and implementing piping system designs and layouts, taking into account factors such as flow rates, temperature, and pressure requirements.
- Prepare purchase requisitions for the procurement of piping materials and assist in the technical evaluation of bids.
- Review and approve final as-built drawings and documentation.
- Ensure that contractors comply with all aspects of the Worksite HSE Plan and policy, site regulations, permit to work and Client requirements.

- Supervising the installation and maintenance of piping systems throughout the facility, ensuring that all work is completed safely and to the required standards.
- Managing a team of pipe fitters, welders, and other technicians, assigning tasks and ensuring that work is completed on schedule.
- Supervision of the installation and maintenance of various MEPF machines, equipment, tools & instruments.
- Installation and Maintenance of Chiller, Cooling Tower, CHW and plumbing pipes, pumps, valves, Insulation, Ducts, AHU, FCU, CAV, VAV, GRD.
- Make BOQ, Heat Load, Pump Head, Duct Size & Fresh Air calculation and selection of equipment.
- Review material/ equipment technical submittals from MEP contractor for specification compliance.
- Get the shop drawings and start the installation for chilled water system, HVAC ducting, plumbing and firefighting at site.
- Review the proposed HVAC and piping drawings (duct sizes and pipe sizes as per approved design) before submit for consultant approval.
- Full coordination between MEP services and architectural/structural trades. Reviewing the shop drawings and material submittals received from MEP sub-contractor prior to sending to consultant.
- Reporting to the project manager in all technical/contractual points related to MEP subcontractor, providing the necessary advice and agreeing jointly about further actions.
- Raise the inspection request and follow with consultant requirements.
- Coordinate with project engineers and site supervisor in order to solve the problem at site and increase the progress to achieve the red lines.
- To oversee MEP service installation under civil contractor scope of works.
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- Carry out inspection for MEP Contractor material along with QA/QC and Consultant.
- All work is to be performed as per HSE regulations, municipal by-laws, government legislation and Building codes.

3. Compan M/S. TN Engineers (MEP CONSULTANT)
Position MEP Design Engineer
Period: (Aug, 2016 to Nov 2019)

Project Overview:

- Preparation and site execution with vendors.
- Heat load calculation after building survey using CARRIER and ASHRAE standards by manuals and by latest HVAC software.
- Calculation of blower CFM, air distribution duct design following SMACNA and DW142 duct design codes, selection of diffusers, grilles G.I sheet etc. (McQuay Software).
- To prepare the selection of machines like FCU's, AHU's, Chillers, Pumps etc, on the basis of Heat Load calculations
- Calculating the Duct Sizing according to the CFM by using McQuay Software.
- Calculating the Pipe Sizing for the chilled water system according to the GPM.
- Incorporating the standards in the Shop Drawings and Sections.
- Leading the team of draft man.
- Collecting drawings from sales engineer and doing site serve, heat load, equipment selecting. Finalizing drain, ducting, and piping layout.

- Preparing drawing or helping draftsman to prepare layout.
- Give final drawing to site engineer for executions.
- Carry out all planned site inspections as per the intervention points marked in the relevant drawing and standard.
- Site Work Inspection as per approved shop drawing.
- Maintaining Daily progress report,

4. **Company:** M/s. KG-Mech Electro- Mechanical Pvt. Ltd. Hyderabad
Location: Hyderabad
Position: Mechanical Project Engineer
Period: (Aug, 2015 to Jun 2016)

Project Overview

- Prepare daily inspection report and submit to manager.
- Installation of equipment's on foundation, check the levelness, alignment and issuing the grout release.
- Cross verification of material handling at site as per Vendor recommendations.
- Coordinate with the team for site situation improvement on daily basis.
- Preparation of method statement before starts the activity & submit for consultant approval.
- Attend weekly meeting Project Management and subcontractor to discuss and clear issues, problems encounter on the Project.
- Installation of UPVC, PVC, and carbon steel piping, AHU, ACCU installation for its location, elevation, and plumpness.
- Assigns supervisors on a specific work to meet construction workload.
- Preparation of daily Fit-up joints reports, erection report, Pipe installation and hydro testing report
- Prepare materials takeoff as per installation details.
- Conduct Hydro test of pipeline.
- Study of Isometric drawing, General arrangement drawing, P & ID, Piping support drawing, and equipment layout drawing.
- Prepare Piping related documents like Piping internal cleaning, flange Bolt torquing, Piping traceability, field valve testing, Piping pressure test, Lay-up, etc. as per standard.

Computer Skills:

Operating System: Windows XP, Windows10, MS Office, MS Excel, MS Power Point, Internet browsing, Surfing, Auto Cad.

Key Skills / Expertise


- Transportation and Handling of CS/ RTR/GRP/FRP/GRE pipe, Pipes
- Trench Excavation according to IFC & comply the requirement.
- Trench Dewatering procedure according to work area requirement.
- Pipe Laying Procedure & Hunching the Pipe.
- Lamination of RTR/GRP/FRP/GRE pipe according to vendor procedure.
- Pipe Backfilling to Grade as per IFC & SARAMCO.
- Preparation of hydro test according to approved procedure.
- Pressurizing & Post hydro test of RTR/GRP/FRP/GRE piping.
- Execution of Plumbing Piping, HVAC & Fire Fighting.

- Execution of RTR/GRP/FRP/GRE, GI, MS, DI Piping (Fire Fighting Works).
- Execution of PPR, CPVC Piping for domestic & irrigation system.
- Execution of (Drainage /Sewerage, Storm & Contaminated Water).
- Installation of Different Types of Ducting & Air Distribution System.
- Installation of Air- & Water-Cooled Chiller & Pumps.
- Installation of Plate Type Heat Exchanger.
- Installation of Cooling Towers.
- Installation of AHU, FCU, Split, Chillers & Exhaust Fan.
- Supervision of BMS (Building Management System).
- Meeting with Client, Contractor/Consultant about the Project.

PERSONAL INFORMATION:

Father's Name	:	Saifullah Siddique
of Birth	:	19th March 1990
Nationality	:	Indian
Religion	:	Islam
Marital Status	:	Married
Language Known	:	English, Urdu, Hindi & Arabic

PASSPORT DETAILS:

Passport no.	:	N4529549
Date of issue	:	13/11/2015
Place of issue	:	Patna
Date of expiry	:	02/11/2025
Iqama no	:	2536514199
Email id 	:	madanish19@gmail.com

DECLARATION:

"I hereby assert that above said information's are exact according to the Best of my knowledge".

Place: Saudi Arabia

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