

MUSTAQUE ALAM

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LEAD MECHANICAL ENGINEER

Career Profile

- ❖ More than 12 years experience in • Petrochemical • Construction • Oil & Gas • Engineering • MEP • Infrastructure • Testing and Commissioning
- ❖ Advanced knowledge in MS Office • Computer Technical Support
- ❖ Capable to work in a time sensitive environment and respond quickly and effectively to high workloads, events and emergencies • Positive attitude and team spirit • Dedicated, focused, enthusiastic and hard working.

PROFESSIONAL EXPERIENCE

Total Experience-12 years: (Overseas: 8 years + 4 years in India)

I have worked with SK Engineering & Construction, Fujairah UAE , as a Lead Mechanical Engineer, for M-project for Tunnel crude oil storage cavern, UAE.

Having UAE/INDIAN Driving License

Gulf Experience:-

Company : **SK ENGINEERING & CONSTRUCTION, UAE**
Site : **M –PROJECT (Tunnel- Cavern) , FUJAIRAH, UAE**
Client : **ADNOC**
Position : **Lead Mechanical Engineer**
Period : 05.01.2018 to 07.11.2020

Company : **Hyundai Engineering & construction, Qatar**
Site : **ASHGHAL, Qatar**
Client : **ASHGHAL, Qatar**
Position : **Project Mechanical Engineer**
Period : 1.03.2015 to 02.12.2017

Company : **Western Desert Oil field Service, Abu Dhabi, UAE**
Site : **ADOC, Mubarazz Island, Abu Dhabi, UAE**
Position : **Mechanical Engineer**
Period : 04.01.2014 to 05.02.2015

Company : **Ahmad Mansoor Al-ali Co.**
Site : **Bapco Refinery, Bahrain**
Position : **Mechanical Engineer**
Period : 12.08.2005 to 02.05.2007

Indian Experience:-

Company : **Taikisha Engg. India Pvt LTD**
Site : **GGs Refinery Bhatinda, Punjab**
Position : **Mechanical Engineer**
Period : 10.07.2010 to 15.12.2013

Company : **Jaykrishna Industries Limited**
Site : **N.T.P.C. Gas Plant, Rajasthan**
Position : **Mechanical Engineer**
Period : 15.06.2004 to 08.07.2005

Gulf Experience:-

Project Name : **M-Project (Tunnel-cavern) - Fujairah, UAE**
Project Status : Construction (Ongoing)-EPC
Client : **ADNOC**
Designation : **Lead Mechanical Engineer**
Period : 05.06.2017 to 07.11.2020

Job Description

Engineering, Procurement, Supply, Installation, Testing, Commissioning, plumbing, ventilation system & handling of subcontractor

- Performing all engineering work (Conceptual design, B.O.Q, detailed design drawing, construction drawing, Material submittal and shop drawings).
- Handling of all subcontractors to complete job with in time.
- Coordinated workflow within the engineering team, executed mechanical engineering scope, reviewed mechanical drawing content, reinforced and
- Follow the ADNOC safety standards, interfaced with client and vendor engineering staff of projects.
- Hands on experience in preparing technical specifications, material selection, preparing data sheets, sizing, selection and performance evaluation of oil and gas industry & Infrastructure equipment's.
- Co-ordination between client, consultant, contractor & sub contractors. TPI, Local Authorities etc.
- Supervision of contractor's works including fabrication, installation, testing, painting, commissioning of Oil & Gas facilities, particularly Oil storage tanks, vessel, and associates piping and pipelines etc.
- Knowledge of all kind of piping layout, connection and installation.
- Having experience of piping design codes.
- Pipes, fittings, valves control, access panel or other Equipment which is required for mechanical purpose.
- Involve of utility header for water, steam, air shall be arranged on the top of multi-tiered pipes racks.
- Experience of all kind valves installation, removal with safety such as isolation valves, check valves and relief valves.
- Having Experience Pipes rack fabrication, modification as per site condition or as per Drawing required.
- Installation of HDPE pipes as per approved drawing with correct specification.
- Installation of heavy ventilation fan diameter is 2.1 m as per approved drawing with required specification.
- Performing the testing and commissioning of ventilation fan and other rotary equipment.
- Installation of Air Cooling Unit as per standard including performing commissioning as well.

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- Involving the dewatering system & knowledge of all kind of flexible hose with associate submersible pump connection.
 - Supervision of contractors other disciplines work including tank foundation, drainage, fire protection system etc with support of respective discipline engineers.
 - Co-ordination with other engineering disciplines and workforce to complete the task in schedule time limit.
 - Installation, testing, precommissioning & commissioning of various Static and Rotary equipment.
 - Checking and certification of contractors invoices with respect to the actual progress at the site.
 - Ensure that works are carried out as per the latest & approved drawing and applicable engineering codes and standard.
 - Ensure the approved material is used in the works.
 - Review, comment and approve the construction related deliverables submitted by contractor including procedure, method of statement, ITP etc.
 - Attend daily, weekly and monthly meeting with client and contractors.
 - Meeting and follow ups with Local authorities for obtaining necessary permit, approvals etc.
 - Work closely with QA/QC function to ensure all Quality control aspects & compliance to the contractual specification & standard.
 - Shall control and monitor the project progress that should be in line with the agreed Baseline and report any critical issues to the higher management for immediate resolution.
 - Shall resolve project related in coordination with external and internal relevant parties.
 - Participate in meetings to discuss project progress both internally and externally and take appropriate decisions to avoid any adverse impact on the project performance.
 - Shall convey the right information and direction to avoid confusion and should be able to sort out project related issues and bottlenecks and independently resolve all in minimum time.
 - Shall be able to withstand high pressure needs to complete project requirement for client within the stipulated time.
 - Preparation of shop drawings based on IFC Drawing.
 - Raising all RFQs and following up with all supplier (Price, delivery ,Payment terms and warranty period until project handover)
 - Preparation of commissioning check list, Operation and maintenance manual and Spare Parts check list.
 - General supervision and inspect the installation, modification and commissioning of mechanical system at construction site.
 - Ensure that all mechanical site activities are conducted under controlled condition as per shop drawing, method of statement, specification and work plan.
 - Generate/Review material requisition, submittal and ensure contract performance measure are met.
 - To handle procurement activities relating to contract and sub contract in accordance with company procedure and procurement department activities.
 - Co-coordinating mechanical commissioning Team to carry out all jobs according to GE Commissioning Recommended procedure, blowing up-air line, pressure Test, Filling up and Hydro test auxiliary and Leak test water cooling line.
 - Supervising mechanical commissioning team for complex Installation and assembling activities for Rotating and Stationary Equipment system, pump etc.
 - Performed pre- commissioning & commissioning activities, walk down inspection, work request sheet, data sheet preparing, commissioning check list.

Project Name : **P-003 Lusail Express way Road Tunnel Project (GC- 17100133)**
Project Status : Construction (completed)-EPC
Client : **ASHGAL, Qatar**
Designation : **Project Mechanical Engineer**
Period : 1.03.2015 to 01.12.2017

Job Description

Direct involving EPC work including Testing, Commissioning and Handing over for storm water pumping station, Micro tunnels, road tunnels, Substation , plumbing & ventilation system for Road Tunnel Project .

- Supervision of contractors works including fabrication, installation, testing , painting , commissioning of Oil & Gas facilities , particularly Oil storage tanks, vessel , associates piping and pipelines
- Preparation of fabrication plan for all kind of piping and pipes supports.
- Preparation of installation plan for D.I Pipes, fitting, valve etc. for all pumping stations.
- Installation of pumping system inside the underground Micro Tunnels along with control system.
- Installation of pumping system inside the road tunnels along with all associated piping and control system 6 nos.
- Installation of ventilation system for road tunnels and sitar case ventilation system.
- General supervision and inspect the installation, modification and commissioning of mechanical system at construction site.
- To handle the complete Mechanical installation, testing, commissioning (Plumbing, HVAC and other mechanical activities.
- Designing of complete HVAC, Plumbing, and Drainage system for buildings.
- Preparation of shop drawings.
- Site inspection and coordination of complete MEP Works.
- Hydro testing of all the associated piping of 6 no's storm water pumping station.
- Performed pre- commissioning & commissioning activities, walk down inspection, work request sheet, data sheet preparing, commissioning check list.
- activities, joined with mechanical commissioning Team this include change oil, cleaning Strainers, Replacing Filter, Chemical cleaning, Leak test, Flushing, blowing, participate to system filling, repair and overhauling Equipment.
- Preparation of all handing over documents.

Project-Name : **Removal and disposal of hydrocarbon sludge from bad crude oil tank at Mubaraz Island,(Offshore) Abu Dhabi, UAE.**

Project Status : Completed

Client : **ADOC, Mubarazz Island, Abu Dhabi, UAE**

Designation : **Mechanical Engineer**

Period : 04.01.2014 to 05.02.2015

Job Responsibilities:

- Developed engineering skills on rotary and stationary equipment's like pumps, compressors, Fin fan cooler, Draught Fan, Air blower, pressure vessels, Column, towers, aboveground storage tanks, tank farm, shell & tube heat exchangers ,Plate type Heat Exchanger, process piping, underground pipelines, flares, oil/gas well-tie-ins and gathering systems, gas sweetening unit and package equipment.
- Coordinated workflow within the engineering team, executed mechanical engineering scope, reviewed mechanical drawing content, reinforced and promoted quality and safety standards, interfaced with client and vendor engineering staff of projects.
- Ensured successful completion of mechanical deliverables and monitoring of project performance for mechanical tasks, schedules and costs.
- Hands on experience in preparing technical specifications, material selection, preparing data sheets, sizing, selection and performance evaluation of oil and gas industry equipment.
- Performed engineering calculations as and where required to verify applicable code requirements. Reviewed and approved vendor design calculations. Experience in using customized calculation sheets for different design codes.
- Knowledge of Alignment Pump, Compressor and Fin fan cooler.
- Maintenance of high speed centrifugal gas compressor and pump.
- Maintenance and Update equipment like Check list and equipment history record.
- Ability to read equipment Drawing and Instruction to Install & remove rotation equipment.
- Should have sound knowledge of equipment overhauling, leveling and alignment.
- Ability to trouble shoots and analyze equipment problem and to work with Technician support personnel for fault diagnosis and root cause analysis.
- Repair and maintenance of heavy mechanical equipment.
- Maintenance planning activities within operation and maintenance group.
- Breakdown and shutdown planning activities for a multi-craft work force.
- Maintenance repair and overhaul of rotating and static mechanical equipment.
- Supervising leadership and work direction to the maintenance planning group.
- Worked and experienced in maintenance & servicing of bearing, pinion, pump, gearbox, shaft and conveyor belt.
- Maintenance and repair various type of valve.
- Set and modify maintenance schedule form mechanical equipment.
- To take care of mechanical maintenance activities in shifts.
- Co-ordination with Vendor for Function Check and modification of Skid Mechanical parts as per Client requirement.

Company Name : **Ahmad Mansoor Al-ali Co**
Client : **Bapco Refinery, Bahrain**
Project Status : **Construction Completed-EPC**
Designation : **Mechanical Engineer**
Period : **12.08.2005 to 02.05.2007**

Job responsibilities:

- Erection commissioning of plant Equipment and Fabrication of 33 meter height of steel structure Column.
- Operation and maintenance of Centrifugal & Reciprocating Air Compressor and Rotary type Compressor.
- Overhauling, Repairing and Alignment of various type of L.P & H.P Centrifugal pump, Reciprocating , Diaphragm pump & Vacuum pump
- Overhauling and Repairing various type of Valve like Gate valve,, Ball valve, Globe valve, Pneumatic valve, Actuator valve, control valve, Check valve etc.
- Overhauling and Repairing of different type of Gear boxes.
- Having experience of different type of piping and plumbing work.
- Involve construction and Maintenance of different type of Coupling and Flange also leak fixing and repairing of different of high pressure L.P, Piping & Plumbing work etc.
- Carry out equipment inspection against technical document/data.
- Review proposal of new equipment repairs to existing equipment API/ AWS certified.
- Supervise or direct the installation of the mechanical equipment.

Indian Experience:-

Company : **Taikisha Engg. India Pvt LTD**
Site : **GGS Refinery Bhatinda, Punjab**
Position : **Mechanical Engineer**
Period : **10.07.2010 to 15.12.2013**

Job responsibilities:

- Ability to read equipment Drawing and Instruction to Install & remove rotation equipment.
- Should have sound knowledge of equipment overhauling, leveling and alignment.
- Ability to trouble shoots and analyze equipment problem and to work with Technician support personnel for fault diagnosis and root cause analysis.
- Repair and maintenance of heavy mechanical equipment.
- Set and modify maintenance schedule form mechanical equipment.
- Maintenance planning activities within operation and maintenance group.
- Breakdown and shutdown planning activities for a multi-craft work force.
- Maintenance repair and overhaul of rotating and static mechanical equipment.
- Supervising leadership and work direction to the maintenance planning group.
- Worked and experienced in maintenance & servicing of bearing, pinion, pump, gearbox, shaft and conveyer.

Company : **Jaykrishna Industries Limited**
Site : **N.T.P.C. Gas Plant, Rajasthan**
Position : **Mechanical Engineer**
Period : 15.06.2004 to 08.07.2005

- Troubleshooting and repair of pneumatic and hydraulic equipment.
- Maintenance of high speed centrifugal gas compressor and pump.
- Responsible for the operation, repair, overhauling and upgrade of all utility equipment such as chemical pump, conveyor, hydraulic pump and Pneumatic pump, knowledge of Alignment in Pump and Compressor.

TECHNICAL SKILL

- CAD, CATIA
- Operating system DOS, WINDOWS, C, C++, DATA STRUCTURE, MS OFFICE, EXCEL.

TECHNICAL & SAFETY TRAINING COURSES

- BS OHSAS 18001: 2007 Training Doha, Qatar in 2015.
- H2S/BA TRAINING, VENTURE GULF TRAINING CENTER, DOHA QATAR.2015.
- QUALIFIED THE ISO 14001-2008 ENVIRONMENT AWARENESS TRAINING PROGRAM
- Confined space Entry Training in Enertech Qatar 2015.
- ADNOC Third Party PTW Training & Confined Space Training
- Approved Issuing Authority and Job Performer by ADNOC

EDUCATION

B.Tech (MECHANICAL ENGINEERING)

Gandhi Institute of Engineering & Technology in 2009-2010 from Orissa, India

Secured: **7.2/10 C.G.P.A**

PERSONAL DOSSIER

Date of Birth: 10July, 1984

Gender: Male

Marital Status: Married

Nationality: Indian

Linguistic Abilities: English, Hindi and Urdu.