

Irfan Mehmood
B.Sc (Mechanical Engineering)
UET Lahore

House No 763, Hassan Block, Nishter Colony, Ferozpur Road, Lahore Pakistan

Cell # +92-304-6910538

Email: mehmoodirfan689@gmail.com

Summary: Professional Mechanical Engineer having over **12 years** of professional well diversified experience in Project Management (Construction of Oil depots, Fuel farm, Fertilizer, Oil & Gas Plants) , Maintenance management of stationary & rotary equipment (Oil Storage Tanks, Pumps, Compressors for CNG pumping, metering system etc.), Quality Control / Quality Assurance, Contractor's handling & evaluation, Engineering Procurement.

Specialties: Engineering Projects Management, Planning, Scheduling, Estimation, execution (Using MS Project, Primavera P-6, P-3), Maintenance Management (Preventive & Breakdown maintenance planning, scheduling, shutdown planning etc.), Engineering Procurement, Budgeting, RFQ's & bids evaluation, Contractor/subcontractor's handling & prequalification, CAPEX/OPEX Budget Preparation, Contracts preparation, Engineering drawings preparation including as-built drawings, and quality control/quality assurance, API 510, Welding, Fabrication, NDT, PMI (Positive Material Identification)

Technical Courses/Certifications

Name of course	Conducted by	Duration	Course description
API 510 (Inservice, Inspection, alteration and rerating of Pressure Vessel)	American petroleum Institute	Certified upto 2016	In-service inspection, repair, alteration and rerating of pressure vessels
CERTIFIED QAQC ENGINEER	DESCON Engineering Limited	15-May-08 to 30-May-08	Soft skills, DPMS, Welding, PWHT, NDT, Piping components, Incoming and Equipment Inspection, Code and Standards, Quality Assurance
ASNT UT Level 1	SGS Pakistan	27 th july to 31 st july, 2015	Thickness Measurement, welding defects traing through shear waves, Equipment calibration, Theory and application of different types of sound waves.
ISO 9001:2008 Lead Auditor In house Training	SGS Pakistan	8 th April to 9 th April, 2016	Awareness & Internal Auditing of ISO 9001:2008 Quality Management System

Professional Experience 12 years

ATTOCK PETROLEUM LTD

June 2011 to Date

Working as **Senior Engineer (Oil Terminal Maintenance, Project Planning, Monitoring & QA/QC)** and is assigned to report Engineering Head with following responsibilities

Oil Terminal Maintenance (Maintenance Coordinator /Focal Person)

- Daily inspection of Pumps , Flow Meters, Loading Arms, Gensets (upto 500 KVA) and Fire Fighting Equipments as per preventive maintenance checklists.
- Inventory Management of relevant spares
- Planning and implementing preventive & predictive maintenance schedules of various machinery and Preparing History Cards.
- Instrument in increasing machine up time / equipment reliability; thereby accomplishing planned production target.
- Executing the Mechanical Retrofitting of Product pumps in co-ordination with respective OEM.
- Proactively identifying areas of obstruction / breakdowns and taking steps to rectify the equipments
- Maintaining the documentation as per ISO & QMS standard.
- Adhering to the safety rules and regulation and suggesting the effective cost management & efficiency.

Project Management

- Planning and scheduling of activities in accordance with allocated resource and time frame
- Coordination with consultant, Review of design and incorporation of changes in design
- Monitoring and supervision of Mechanical, Civil and Electrical works.
- Project risk analysis, & development of contingency plans. Analyze overall discipline wise progress & efficiency for comparison with targets and indication of areas which require improvements.
- Preparation of project variance analysis, its impact, remedial action plan & its presentation to higher management for reporting of real time scenario.
- Planning of resources, resource leveling and costing with the help of Primavera P-6
- Tracking of project and ensuring project progress as per plans.
- Coordination for procurement of the project materials including, IFR, steel structures, pipes & pipe fittings, pumps (as per API & NFPA), flow meters, pressure safety valves and primary & secondary seals for oil storage tanks, plants etc.
- Monitoring the execution of jobs being carried out in different area like Civil, Mech.,Elec.
- Ensuring safety at work and implementation of permit to work system for hot, cold, confined space works etc.

Project QA/QC

- Inspection of jobs to ensure Quality of works as per approved QIP (Quality Inspection Plan), Method Statements, Drawings & Project Specifications includes testing as per standards (ASME, AWS, API, NFPA, ASME Sec B31.4 & Project Specifications)
- PQR/ WPS Qualification, Welder Qualification as per ASME sec IX for pipelines and Structures.
- Inspection of welding joint fitup, traceability and NDT as per piping class and repair rate monitoring of welders.
- Punch listing/ Hydro testing/ air Blowing & Flushing of Pipelines before start of pre-commissioning.
- Quality Control in Fabrication, Welding & Erection of Vertical Tanks as per API 650. Peaking, Bending, verticality, NDT, Vacuum & Oil Penetration tests, hydro testing, tank foundation settlement and Sand blasting & Painting inspections.

Projects Handled:

- Designing and planning of New Pigable line for MOGAS between PARCO TS 4 and APL.
- Budgeting, Design, Planning, Monitoring & Construction of 01 No. MOGAS Storage Tank (5000 Tons) at Machike Bulk Oil Terminal.
- Planning, Monitoring and Construction of 05 No. Storage Tanks (each 5500 Tons) (APL Revamp for Rawalpindi & Machike Terminals).
- Procurement and Installation of IFRs for PMG. Tanks at Machike and Rawalpindi Terminal. Revamping of calibration facilities at Karachi, Machike and Rawalpindi Terminals.
- Visits for supervision of Misc. activities as per Project section requirement for Fuel Form Facility at New Islamabad Airport.
- Planning, Monitoring, Construction of pig receiving piping up to newly constructed tanks and discharge piping up to pumping room at APL Terminal.
- Planning, Monitoring for Modification of existing storage tanks piping for flow rate optimization.
- Planning, Monitoring for Installation of Oily drain, steam, Pig able pipeline from APL terminal to Attock Refinery oil water separator.
- Planning, Monitoring for Construction of 02 No. Calibration points for tank lorries.

DESCON ENGINEERING LIMITED

May-2008 to May 2011

DESCON Engineering Limited is a Well Recognized Multi-National Company operating in Pakistan and the Middle East. The services portfolio covers project management, engineering, procurement, construction, maintenance, designing and manufacturing of process equipment for the sectors of Oil & Gas, Chemical/Petrochemical, Power, Fertilizer, Cement, and Infrastructure.

BHP BILLITON GAS FIELD DADU, PAKISTAN FRONT END COMPRESSION PROJECT

Oct 2010 to May 2011

QAQC Engineer (Pipelines, Equipments & Structure)

- Quality Control in installation and commissioning of two Gas compressors driven by Gas Turbines of rating 38 MW each, Support Structure for Filter house, Lube Oil Cooler and enclosure structure

- Shaft Alignment of complete train as per Vendor Requirement (Nuovo Pig none)
- Inspection Of Fin Fan Coolers, verifying Pitch Angle, Tip Clearances, pulley Alignment as per Vendor Installation Manual
- Static/Rotary Equipment Installation, Alignment, grouting and Box up.
- Complete Inspection of Pressure Vessel with reference to detail drawings and verification of Manufacturing Dossier.
- Internals (Demister, Swirl Boxes etc) installation in Slug catcher, KO Drum, Suction scrubber as per Licensor's specification
- Commissioning of Flow line by cleaning through Pigging, Gauging and then Hydro testing.
- Test Pack reviewing, fulfilling the NDT requirements, Stress relieving, supports welding, Bolted joints and after all Punch listing/Punch killing of lines.

ENGRO CHEMICALS EXPANSION PROJECT

June-2008 to Sep 2010

World's Largest Single Train Ammonia Urea Complex. Engro Chemicals Pakistan Limited, Daharki (Sindh Province) Project worth 1.6 billion US Dollars and 22 million man-hours. Design of M/s SnamProgetti Italy, 3850 MTPD Granular Urea

QAQC ENGINEER

I am working with this company as QA/QC Engineer. I have also accumulated sufficient experience in Quality Assurance with the help of DIMS (DESCON Integrated Management System) which is inspired QMS prepared to comply with the requirement of ISO-9001:2000, 14001:2004, and OSHAS 18001:1999. Overall responsibilities are:

- Preparation of Method Statements, Welding Procedure Specifications, Quality Inspection Plan (QIP) in view of Project Specification.
- Inspection & documentation of activities pertinent to rotary & static equipments i.e Physical Inspection, shimming/Padding, Alignments (Verticality, Horizontalness), Shaft Alignment, Grouting, insulation, internals (distributor, demisters, supports, grids, Packings etc.), Box up, Mechanical Completion
- Inspection of Internals installation in Column, (major CO₂ Absorber, Stripper, LP/HP vessels) Vessels as per Drawings/ licensor's specification.
- Maintaining upto date Instrument Measuring & calibration Record of tools (Dial indicators, Mechanical Levels, Straight Edges, Verniers calipers, ID micrometer) require to perform job with precision.
- Managing Equipment Handling & Preservation
- Incoming Material Inspection at Client warehouse and coordinating PMI (Positive Material Identification) of piping materials and reviewing MTCs.
- Inspection and documentation of Piping Fabrication, Welding, PWHT & Hardness test, NDT (MPI, DPT, PMI, RT), of CS (A106 Gr B, A53 Gr B), LTCS (A333-6), SS (A312 TP304L, TP316L), Alloy Steel (A335 P11/P22) Fulfilling the requirements laid down in Project specifications, ASME Sec IX & B 31.3.
- Inspection of Sand Blasting, Painting, Hot and Cold Insulation.
- Worked as Test Pack Coordinator having responsibilities
 - To Check Isometrics against P&ID's

- To check that all NDT / Stress relieving requirements are as specified have been met and recorded
 - To check that all correct bolts and gaskets are installed at all Mechanical joints
 - To check piping for correct schedule and type
 - To check valve Materials as per piping material spec.
 - To check pressure gauges are calibrated
 - To check all relevant formats are attached in test Pack
 - To check the continuity of items with approved drawing
 - To make punch list during walk down if required.
 - To check Inspection summary with drawings.
-
- Raising CAR /PAR and subsequent follow up of corrective actions
 - Contributed for achieving highest level of HSE Standard by achieving 22 Million Man hours without any LTI.